APTIM
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January 4, 2023

Project # 631010697

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

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

Dear Mr. Martella:

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

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

This status report describes groundwater monitoring activities conducted at the site by APTIM. This report includes results of groundwater sampling and analysis conducted in August and November of 2022.

Field Activities

Limited VOC Sampling Activities August and November 2022

Limited groundwater gauging and sampling was conducted on August 29, 2022 and November 22 and 23, 2022. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for the gauging of these wells are included in **Table 2**.

Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260D) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on August 29 and November 22 and 23, 2022. Groundwater samples were delivered to Pace (formerly Con-Test Analytical) Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities November 2022

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on November 22 and 23, 2022.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on November 22 and 23, 2022. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Field parameter and groundwater elevation results are presented in **Tables 1** and **2**, respectively.

Semi-Annual Groundwater Sampling

On November 22 and 23, 2022 groundwater samples were collected for analysis for VOCs (EPA Method 8260D) from 22 monitoring wells within and around the treatment area, including the compliance wells. One duplicate sample was collected from MW-101S (MW-101S FD) for VOC analysis. One 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 Pace Laboratory in East Longmeadow, Massachusetts for analysis.

Summary of Analytical Data

A summary of the analytical data associated with the groundwater sampling conducted on August 29 and November 22 and 23, 2022 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. During these sampling events, measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells. During this reporting period the highest PCE concentrations were detected in wells MW-218D at 2,600 µg/L on November 23, 2022 and MW-101S and its duplicate (MW-101S FD) at 530/600 µg/L, respectively, on November 22, 2022.

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-218S on November 23, 2022. (Note that due to sample dilution by the laboratory, the

analytical reporting limit for vinyl chloride, in well MW-218S, on November 23, 2022, was above the compound specific compliance standard).

Future Activities

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

If you have any questions regarding this report, please do not hesitate to contact me directory 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 – June 2022 – November 2022
Table 4 – Groundwater Analytical Results in Compliance Wells – June 2022 – November 2022

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

cc: Makala Fioritto - email
Greg Simpson, Textron - email
Mykel Mendes, Wood PLC - email
Robert Azar, Providence Redevelopment Agency - email
Amanda DeGrace - Providence Redevelopment Agency - email
Al Buco, Paolino Properties - email

CERTIFICATIONS

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

I, Catherine Joe, as an authorized representative of Aptim Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated January 4, 2022, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Catherine Joe
Project Manager

1/4/2023
Date:

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

Certification on behalf of Textron Inc.

Makala Fioritto
Project Manager

01/04/2023
Date:

TABLES

Table 1
Summary Field Parameters
June - November 2022

Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	pH unit	Specific Conductivity mS/cm	Temperature C°
MW-101D	11/22/2022	3.9	178.2	6.17	0.03	14.8
MW-101S	11/22/2022	3.53	119	6.18	1.013	14.87
MW-112	11/22/2022	1	181	6.22	0.733	14.17
MW-116D	11/23/2022	2.59	244.4	5.87	0.162	14.6
MW-116S	11/23/2022	4.27	251.8	5.87	0.198	14.87
MW-201D	11/22/2022	1.04	51.1	6.34	0.048	15.37
MW-202D	11/22/2022	6.88	256	6	0.007	15.62
MW-202S	11/22/2022	0.56	236.2	5.81	0.216	16.22
MW-207D	11/22/2022	2.57	221.5	5.76	0.023	16.6
MW-207S	11/22/2022	6.17	187.5	7.2	0.018	16.63
MW-209D	11/22/2022	1.08	115.6	6.82	0.111	13.92
MW-216D	11/22/2022	1.08	44.9	6.39	0.845	15.52
MW-216S	11/22/2022	0.63	-54.8	6.33	1.229	16.25
MW-217D	11/22/2022	2.13	167	6.36	0.283	15.04
MW-217S	11/22/2022	0.13	-44.5	6.43	2.11	16.21
MW-218D	11/23/2022	0.22	227.2	5.83	0.885	14.72
MW-218S	11/23/2022	0.12	240.2	5.3	0.956	14.42

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

TABLE 2
GROUNDWATER ELEVATION DATA
(June - November 2022)
Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Note
CW-01	11/23/2022	99.52	25.33	---	---	74.19	DTB = 54.28 FT
CW-02	11/23/2022	98.86	24.58			74.28	DTB = 54.41 FT
CW-06	11/23/2022	99.52	24.46	---	---	75.06	DTB = 33.02 FT
GZA-3	11/23/2022	NM	16.45	---	---	NA	DTB = 22.18 FT
MW-101D	11/22/2022	98.91	24.03	---	---	74.88	DTB = 46.14 FT
MW-101S	11/22/2022	98.90	24.71	---	---	74.19	DTB = 28.14 FT
MW-109D	11/23/2022	NM	18.52	---	---	NA	DTB = 74.85 FT
MW-112	8/29/2022	100.63	27.40	---	---	73.23	DTB = 34.71 FT
	11/22/2022	100.63	26.43	---	---	74.20	DTB = 34.60 FT
MW-116D	8/29/2022	98.92	25.66	---	---	73.26	DTB = 44.18 FT
	11/23/2022	98.92	24.62	---	---	74.30	DTB = 44.64 FT
MW-116S	8/29/2022	99.40	26.95	---	---	72.45	DTB =27.52 FT
	11/23/2022	99.40	25.07	---	---	74.33	DTB = 28.68 FT
MW-201D	11/22/2022	98.80	24.58	---	---	74.22	DTB = 46.42 FT
MW-202D	11/22/2022	98.17	24.03	---	---	74.14	DTB = 46.14 FT
MW-202S	11/22/2022	98.06	23.98	---	---	74.08	DTB = 37.90 FT
MW-207D	11/22/2022	98.18	24.01	---	---	74.17	DTB = 50.38 FT
MW-207S	11/22/2022	98.28	24.08	---	---	74.20	DTB = 36.81 FT
MW-209D	11/22/2022	99.90	26.12	---	---	73.78	DTB = 62.28 FT
MW-216D	11/22/2022	98.69	25.24	---	---	73.45	DTB = 39.37 FT
MW-216S	11/22/2022	99.58	25.26	---	---	74.32	DTB = 29.62 FT
MW-217D	11/22/2022	98.65	24.56	---	---	74.09	DTB = 46.90 FT
MW-217S	11/22/2022	98.71	24.65	---	---	74.06	DTB = 26.37 FT
MW-218D	11/23/2022	99.67	25.45	---	---	74.22	DTB = 47.17 FT
MW-218S	11/23/2022	99.61	25.47	---	---	74.14	DTB = 29.56 FT
MW-220S	11/22/2022	99.41	25.18	---	---	74.23	DTB = 31.85 FT
MW-221S	11/22/2022	98.92	25.11	---	<0.01	73.81	

Notes:
Feet = feet measured below ground surface
NA = Not Available
NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2022 - November 2022

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D	MW-112	
	Sample ID	CW-01-20221122	CW-02-20221122	CW-06-20221122	CW-06-20221122 FD	GZA-3-20221122	GZA-3-20221122 FD	MW-101D-20221122	MW-101S-20221122	MW-101S-20221122 FD	MW-109D-20221122	MW-112-20220829	MW-112-20221122
	Sample Date	11/23/2022	11/23/2022	11/23/2022	11/23/2022	11/23/2022	11/23/2022	11/22/2022	11/22/2022	11/22/2022	11/23/2022	8/29/2022	11/22/2022
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES													
1,2,4-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
Benzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	60	< 1	---	---	< 1	---	< 1	16	30	< 1	< 1	< 1
Ethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
Methyltert-butylether	µg/L	< 10	2.6	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
Naphthalene	µg/L	< 20	< 2	---	---	< 2	---	< 2	< 20	< 20	< 2	< 2	< 2
o-Xylene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
Tetrachloroethene	µg/L	< 10	< 1	---	---	< 1	---	6.9	530	600	< 1	45	29
trans-1,2-Dichloroethene	µg/L	12	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
Trichloroethene	µg/L	780	1.1	---	---	< 1	---	< 1	33	39	2.5	1.8	1.6
Vinyl chloride	µg/L	< 20	< 2	---	---	22	---	< 2	< 20	< 20	< 2	< 2	< 2
Xylene (total)	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 10	< 10	< 1	< 1	< 1
TPH													
TPH	mg/L	---	---	10	11	---	---	---	---	---	---	---	---
METALS, DISSOLVED													
Lead	µg/L	---	---	---	---	< 0.5	< 0.5	---	---	---	< 0.5	---	---

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

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2022 - November 2022

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D	MW-207S	MW-209D	MW-216D	MW-216S	MW-217D
	Sample ID	MW-116D-20220829	MW-116D-20221122	MW-116S-20220829	MW-116S-20221122	MW-201D-20221122	MW-202D-20221122	MW-202S-20221122	MW-207D-20221122	MW-207S-20221122	MW-209D-20221122	MW-216D-20221122	MW-216S-20221122	MW-217D-20221122
	Sample Date	8/29/2022	11/23/2022	8/29/2022	11/23/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022
	Sample Purpose	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES														
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	11	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1
Benzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.6	< 1	< 2	< 1
cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	29	< 1	< 1	< 1	< 1	8	< 1	7	1
Ethylbenzene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	3.1	< 1
Methyltert-butylether	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1
Naphthalene	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	15	< 2
o-Xylene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9.2	< 1
Tetrachloroethene	µg/L	< 1	< 1	< 1	< 1	15	2.3	4	1.2	< 1	55	< 1	< 2	< 1
trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 1
Trichloroethene	µg/L	< 1	< 1	< 1	< 1	4	< 1	< 1	< 1	< 1	18	< 1	< 2	1.6
Vinyl chloride	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	20	< 2
Xylene (total)	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	13	< 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
June 2022 - November 2022

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	MW-217S	MW-218D	MW-218S
	Sample ID	MW-217S-20221122	MW-218D-20221122	MW-218S-20221122
	Sample Date	11/22/2022	11/23/2022	11/23/2022
	Sample Purpose	N	N	N
Parameter	Units	Result	Result	Result
VOLATILES				
1,2,4-Trimethylbenzene	µg/L	< 4	< 50	< 2
1,3,5-Trimethylbenzene	µg/L	< 4	< 50	< 2
Benzene	µg/L	< 4	< 50	< 2
cis-1,2-Dichloroethene	µg/L	< 4	< 50	< 2
Ethylbenzene	µg/L	< 4	< 50	< 2
Methyltert-butylether	µg/L	< 4	< 50	< 2
Naphthalene	µg/L	< 8	< 100	< 4
o-Xylene	µg/L	< 4	< 50	< 2
Tetrachloroethene	µg/L	< 4	2600	160
trans-1,2-Dichloroethene	µg/L	< 4	< 50	< 2
Trichloroethene	µg/L	< 4	350	< 2
Vinyl chloride	µg/L	< 8	< 100	< 4
Xylene (total)	µg/L	< 4	< 50	< 2
TPH				
TPH	mg/L	---	---	---
METALS, DISSOLVED				
Lead	µg/L	---	---	---

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

TABLE 4
Groundwater Analytical Results
June 2022 - Novembe 2022

Former Gorham Manufacturing Facility
Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	**GZA-3**	**GZA-3**	**MW-109D**	**Compliance**
Date Collected	**11/23/2022**	**11/23/2022**	**11/23/2022**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate 1**	**Primary**	
Metals (mg/L)				
Lead	<0.0005	<0.0005	<0.0005	0.03
VOCs (µg/L)				
1,1-Dichloroethane	< 1	--	< 1	50,000
1,1-Dichloroethene	< 1	--	< 1	50,000
cis-1,2-Dichloroethene	< 1	--	< 1	50,000
Methyl tert-butyl ether	< 1	--	< 1	50,000
Tetrachloroethene	< 1	--	< 1	5,000
Trichloroethene	< 1	--	2.5	20,000
Vinyl chloride	22	--	< 2	1,200

TPH Remediation Area Well			
Sample ID	**CW-06**	**CW-06**	**Compliance**
Date Collected	**11/23/2022**	**11/23/2022**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate**	
TPH (mg/L)			
TPH	10	11	20

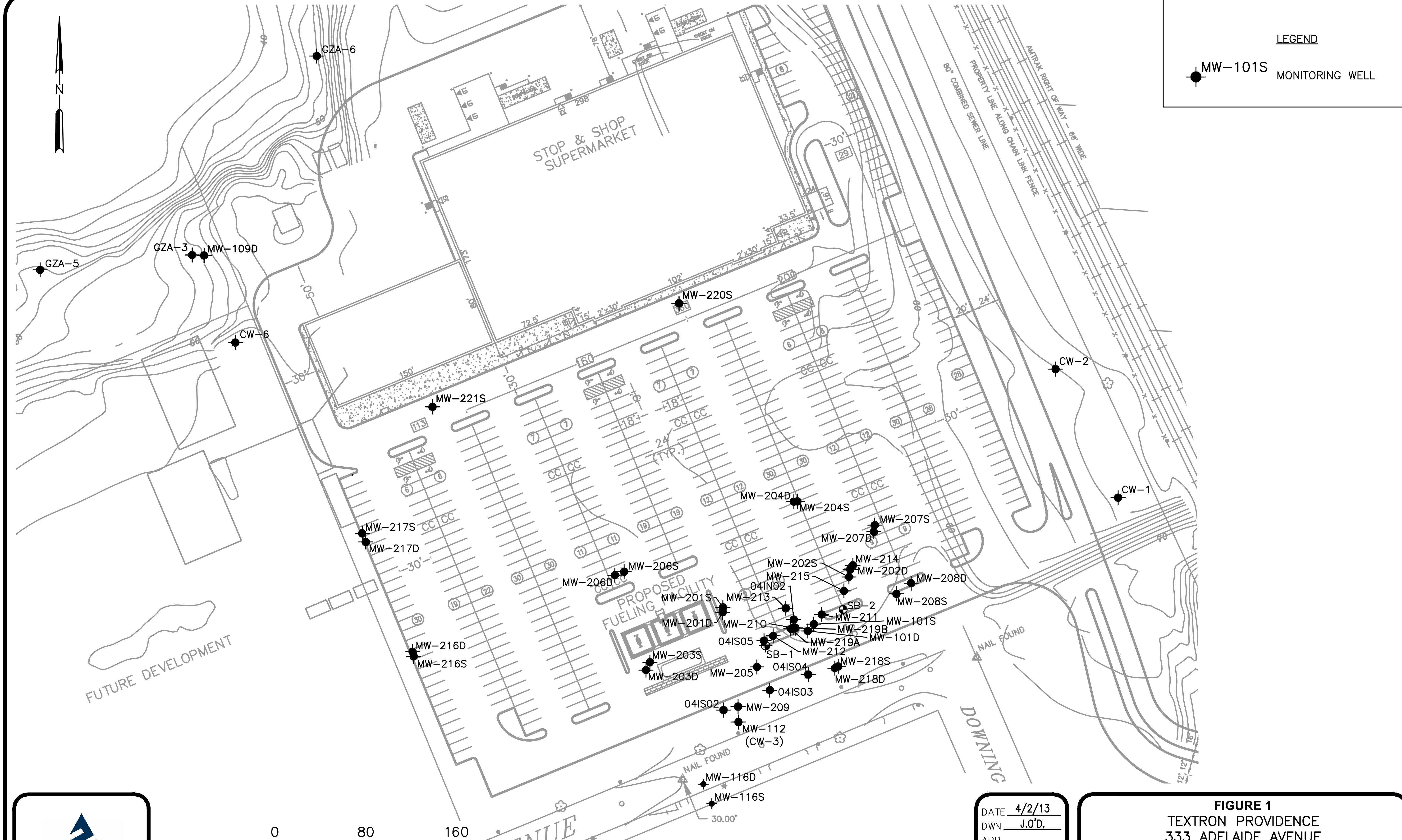
Sewer Interceptor Area Wells			
Sample ID	**CW-01**	**CW-02**	**Compliance**
Date Collected	**11/23/2022**	**11/23/2022**	**Standard[2]**
CONSTITUENT	**Primary**	**Primary**	
VOCs (µg/L)			
1,1-Dichloroethane	< 10	< 1	120,000
1,1-Dichloroethene	< 10	< 1	23,000
cis-1,2-Dichloroethene	60	< 1	69,000
trans-1,2-Dichloroethene	12	< 1	79,000
Tetrachloroethene	< 10	< 1	NS
Trichloroethene	780	1.1	87,000

Adelaide Avenue Wells					
Sample ID	**MW-112**	**MW-112**	**MW-209D**	**MW-218S**	**Compliance**
Date Collected	**8/29/2022**	**11/22/2022**	**11/22/2022**	**11/23/2022**	**Standard[3]**
CONSTITUENT	**Primary**	**Primary**	**Primary**	**Primary**	
VOCs (µg/L)					
1,1-Dichloroethane	< 1	< 1	< 1	< 2	2,400
1,1-Dichloroethene	< 1	< 1	< 1	< 2	7
cis-1,2-Dichloroethene	< 1	< 1	8	< 2	1,900
Methyl tert-butyl ether	< 1	< 1	< 1	< 2	5,000
Tetrachloroethene	45	29	55	**160**	150
Trichloroethene	1.8	1.6	18	< 2	540
Vinyl chloride	< 2	< 2	< 2	< 4	2

1. These site specific compliance standards were taken from the approved RAWP dated April 1, 2001 and/or the RIDEM Remediation Regulations.
   Note: The standard for Methyl tert-butyl ether is the Massachusetts Department of Environmental Protection (MassDEP) Method 1 GW-3 standard (310 CMR 40.0974 (2), 12/14/07. The use of the MassDEP Method 1 GW-3 standard is consistent with the approach used in the April 1, 2001 RAWP.
2. These compliance standards taken from Table 5 - Upper Concentration Limits for GB Groundwater, RIDEM Remediation Regulations.
3. These compliance standards taken from Table 4 - GB Groundwater Objectives of the RIDEM Remediation Regulations or in the case of vinyl chloride the compliance standard was taken from Table 3 of the Remediation Regulations and for chloroform the compliance standard was calculated from the algorithm in Appendix F of the Remediation Regulations (calculations attached as Appendix C of Status Report dated September 18, 2007.

NS = Indicates that no applicable standard exists. Compound does not have a lower explosive limit (LEL).
< = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
VOCs = Volatile organic compounds
-- = Not analyzed for

FIGURES



LEGEND
MW–101S MONITORING WELL
STOP & SHOP SUPERMARKET
PROPOSED FUELING FACILITY
FUTURE DEVELOPMENT
GZA–6
GZA–5
GZA–3
MW–109D
CW–6
CW–2
CW–1
MW–220S
MW–221S
MW–217S
MW–217D
MW–216D
MW–216S
MW–206S
MW–206D
MW–204D
MW–204S
MW–207S
MW–207D
MW–202S
MW–214
MW–202D
MW–215
MW–208D
MW–208S
04IN02
MW–201S
MW–213
SB–2
MW–211
MW–101S
MW–201D
MW–210
MW–219B
MW–101D
04IS05
MW–219A
SB–1
MW–212
MW–203S
MW–203D
MW–205
04IS04
MW–218S
MW–218D
04IS03
04IS02
MW–209
MW–112
(CW–3)
MW–116D
MW–116S
NAIL FOUND
AMTRAK RIGHT OF WAY – 66' WIDE
PROPERTY LINE ALONG CHAIN LINK FENCE
80" COMBINED SEWER LINE
DOWNING
0 80 160
SCALE IN FEET

APTIM

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

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

LEGEND

MW-101S — MONITORING WELL

SB-2 — SOIL BORING

04IS01 — INJECTION WELL

N

CC CC

24' (TYP.)

18'+

9'

PROPOSED FUELING FACILITY

MW-206S

MW-206D

MW-201S

MW-201D

MW-204D

MW-204S

MW-207D

MW-207S

04IN03

04IN04

MW-202D

MW-202S

MW-208D

MW-208S

04IN02

04IN01

SB-2

MW-101S

MW-101D

04IS05

SB-1

MW-203S

MW-203D

MW-205

04IS04

04IS03

04IS02

MW-209D

04IS01

MW-112 (CW-3)

TREATMENT AREA

NAIL FOUND

DOWNING

MW-216D

MW-116S

30.00'

0 40 80

SCALE IN FEET

APTIM

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

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

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

1" 1/2" 0" 1"

ATTACHMENT A

LABORATORY REPORTS

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

September 21, 2022

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

Project Location: 333 Adelaide Ave., Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 22H1729

Enclosed are results of analyses for samples as received by the laboratory on August 30, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott C. Basal
Project Manager

Table of Contents

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

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

REPORT DATE: 9/21/2022

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22H1729

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

PROJECT LOCATION: 333 Adelaide Ave., Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112-20220829	22H1729-01	Ground Water		-	
				SW-846 8260D	
MW-116D-20220829	22H1729-02	Ground Water		SW-846 8260D	
MW-116S-20220829	22H1729-03	Ground Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

REVISON: 9/21/22 sample ID for -03 upated per client request.

SW-846 8260D

Qualifications:

L-02

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

Analyte & Samples(s) Qualified:

Bromochloromethane
B316234-BS1, B316234-BSD1

Carbon Disulfide
B316234-BS1, B316234-BSD1

Chloromethane
B316234-BS1, B316234-BSD1

Methyl Acetate
B316234-BS1, B316234-BSD1

Vinyl Chloride
B316234-BS1, B316234-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
22H1729-01[MW-112-20220829], 22H1729-02[MW-116D-20220829], 22H1729-03[MW-116S-20220829], B316234-BLK1, B316234-BS1, B316234-BSD1

V-05

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

Analyte & Samples(s) Qualified:

Naphthalene
22H1729-01[MW-112-20220829], 22H1729-02[MW-116D-20220829], 22H1729-03[MW-116S-20220829], B316234-BLK1, B316234-BS1, B316234-BSD1, S076072-CCV1

V-20

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

Analyte & Samples(s) Qualified:

Bromochloromethane
B316234-BS1, B316234-BSD1, S076072-CCV1

Carbon Disulfide
B316234-BS1, B316234-BSD1, S076072-CCV1

Chloromethane
B316234-BS1, B316234-BSD1, S076072-CCV1

Methyl Acetate
B316234-BS1, B316234-BSD1, S076072-CCV1

Vinyl Chloride
B316234-BS1, B316234-BSD1, S076072-CCV1

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The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Jessica L. Hoffman
Project Manager

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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: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-112-20220829 Sampled: 8/29/2022 09:50

Sample ID: 22H1729-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05	SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH

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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: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-112-20220829 Sampled: 8/29/2022 09:50

Sample ID: 22H1729-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	8/31/22	9/1/22 15:59	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Tetrachloroethylene	45	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Trichloroethylene	1.8	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 15:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		9/1/22 15:59
Toluene-d8	101	70-130		9/1/22 15:59
4-Bromofluorobenzene	100	70-130		9/1/22 15:59

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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: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-116D-20220829 Sampled: 8/29/2022 12:00

Sample ID: 22H1729-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05	SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH

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Project Location: 333 Adelaide Ave., Providence, R Sample Description: Work Order: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-116D-20220829 Sampled: 8/29/2022 12:00

Sample ID: 22H1729-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	8/31/22	9/1/22 16:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		9/1/22 16:26
Toluene-d8	101	70-130		9/1/22 16:26
4-Bromofluorobenzene	103	70-130		9/1/22 16:26

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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: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-116S-20220829 Sampled: 8/29/2022 10:40

Sample ID: 22H1729-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	R-05	SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH

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Project Location: 333 Adelaide Ave., Providence, R Sample Description: Work Order: 22H1729

Date Received: 8/30/2022

Field Sample #: MW-116S-20220829 Sampled: 8/29/2022 10:40

Sample ID: 22H1729-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	8/31/22	9/1/22 16:53	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/31/22	9/1/22 16:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		9/1/22 16:53
Toluene-d8	102	70-130		9/1/22 16:53
4-Bromofluorobenzene	98.8	70-130		9/1/22 16:53

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22H1729-01 [MW-112-20220829]	B316234	5	5.00	08/31/22
22H1729-02 [MW-116D-20220829]	B316234	5	5.00	08/31/22
22H1729-03 [MW-116S-20220829]	B316234	5	5.00	08/31/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B316234 - SW-846 5030B										
Blank (B316234-BLK1)				Prepared: 08/31/22 Analyzed: 09/01/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							R-05
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B316234 - SW-846 5030B												
Blank (B316234-BLK1)				Prepared: 08/31/22 Analyzed: 09/01/22								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L								V-05	
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Xylenes (total)	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102		70-130				
LCS (B316234-BS1)				Prepared: 08/31/22 Analyzed: 09/01/22								
Acetone	101	50	µg/L	100		101		70-160				†
Acrylonitrile	9.85	5.0	µg/L	10.0		98.5		70-130				
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101		70-130				
Benzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromobenzene	11.4	1.0	µg/L	10.0		114		70-130				
Bromochloromethane	13.2	1.0	µg/L	10.0		**132**	*	70-130			L-02, V-20	
Bromodichloromethane	11.6	0.50	µg/L	10.0		116		70-130				
Bromoform	10.7	1.0	µg/L	10.0		107		70-130				
Bromomethane	12.3	2.0	µg/L	10.0		123		40-160				†
2-Butanone (MEK)	100	20	µg/L	100		100		40-160				†
tert-Butyl Alcohol (TBA)	94.2	20	µg/L	100		94.2		40-160				†
n-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130				
tert-Butyl Ethyl Ether (TBEE)	11.4	0.50	µg/L	10.0		114		70-130				
Carbon Disulfide	159	5.0	µg/L	100		**159**	*	70-130			L-02, V-20	
Carbon Tetrachloride	12.0	5.0	µg/L	10.0		120		70-130				
Chlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
Chlorodibromomethane	11.5	0.50	µg/L	10.0		115		70-130				
Chloroethane	13.0	2.0	µg/L	10.0		130		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 B316234 - SW-846 5030B												
LCS (B316234-BS1)				Prepared: 08/31/22 Analyzed: 09/01/22								
Chloroform	11.2	2.0	µg/L	10.0		112		70-130				
Chloromethane	16.2	2.0	µg/L	10.0		**162**	*	40-160			L-02, V-20	†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130				
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130				
Dibromomethane	11.3	1.0	µg/L	10.0		113		70-130				
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130				
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130				
trans-1,4-Dichloro-2-butene	9.83	2.0	µg/L	10.0		98.3		70-130				
Dichlorodifluoromethane (Freon 12)	11.6	2.0	µg/L	10.0		116		40-160				†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116		70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
cis-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117		70-130				
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
1,2-Dichloropropane	11.9	1.0	µg/L	10.0		119		70-130				
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130				
2,2-Dichloropropane	5.54	1.0	µg/L	10.0		55.4		40-130			R-05	†
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112		70-130				
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113		70-130				
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130				
Diethyl Ether	11.2	2.0	µg/L	10.0		112		70-130				
Diisopropyl Ether (DIPE)	12.4	0.50	µg/L	10.0		124		70-130				
1,4-Dioxane	92.6	50	µg/L	100		92.6		40-130				†
Ethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Hexachlorobutadiene	12.0	0.60	µg/L	10.0		120		70-130				
2-Hexanone (MBK)	111	10	µg/L	100		111		70-160				†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130				
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105		70-130				
Methyl Acetate	14.8	1.0	µg/L	10.0		**148**	*	70-130			L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130				
Methyl Cyclohexane	11.5	1.0	µg/L	10.0		115		70-130				
Methylene Chloride	12.8	5.0	µg/L	10.0		128		70-130				
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113		70-160				†
Naphthalene	8.56	2.0	µg/L	10.0		85.6		40-130			V-05	†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Styrene	10.3	1.0	µg/L	10.0		103		70-130				
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116		70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130				
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118		70-130				
Tetrahydrofuran	11.1	10	µg/L	10.0		111		70-130				
Toluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130				
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
1,3,5-Trichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.0		114		70-130				
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
Trichloroethylene	11.8	1.0	µg/L	10.0		118		70-130				
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111		70-130				
1,2,3-Trichloropropane	9.95	2.0	µg/L	10.0		99.5		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 B316234 - SW-846 5030B												
LCS (B316234-BS1)				Prepared: 08/31/22 Analyzed: 09/01/22								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4	1.0	µg/L	10.0		124		70-130				
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100		70-130				
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Vinyl Chloride	46.4	2.0	µg/L	10.0		**464**	*	40-160			L-02, V-20	†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130				
o-Xylene	10.8	1.0	µg/L	10.0		108		70-130				
Xylenes (total)	32.4	1.0	µg/L	30.0		108		0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.6		70-130				
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107		70-130				
LCS Dup (B316234-BSD1)				Prepared: 08/31/22 Analyzed: 09/01/22								
Acetone	102	50	µg/L	100		102		70-160	0.896	25		†
Acrylonitrile	10.8	5.0	µg/L	10.0		108		70-130	9.02	25		
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104		70-130	3.12	25		
Benzene	10.2	1.0	µg/L	10.0		102		70-130	0.391	25		
Bromobenzene	11.8	1.0	µg/L	10.0		118		70-130	3.45	25		
Bromochloromethane	13.2	1.0	µg/L	10.0		**132**	*	70-130	0.00	25	L-02, V-20	
Bromodichloromethane	11.9	0.50	µg/L	10.0		119		70-130	2.72	25		
Bromoform	11.2	1.0	µg/L	10.0		112		70-130	4.38	25		
Bromomethane	12.6	2.0	µg/L	10.0		126		40-160	1.85	25		†
2-Butanone (MEK)	103	20	µg/L	100		103		40-160	2.62	25		†
tert-Butyl Alcohol (TBA)	96.9	20	µg/L	100		96.9		40-160	2.89	25		†
n-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130	5.21	25		
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130	2.69	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	0.577	25		
tert-Butyl Ethyl Ether (TBEE)	11.3	0.50	µg/L	10.0		113		70-130	0.707	25		
Carbon Disulfide	154	5.0	µg/L	100		**154**	*	70-130	2.68	25	L-02, V-20	
Carbon Tetrachloride	11.5	5.0	µg/L	10.0		115		70-130	3.91	25		
Chlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	2.07	25		
Chlorodibromomethane	11.8	0.50	µg/L	10.0		118		70-130	2.58	25		
Chloroethane	13.0	2.0	µg/L	10.0		130		70-130	0.231	25		
Chloroform	11.3	2.0	µg/L	10.0		113		70-130	0.802	25		
Chloromethane	17.2	2.0	µg/L	10.0		**172**	*	40-160	5.91	25	L-02, V-20	†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130	0.486	25		
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109		70-130	1.20	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.51	5.0	µg/L	10.0		95.1		70-130	5.82	25		
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111		70-130	6.99	25		
Dibromomethane	11.6	1.0	µg/L	10.0		116		70-130	2.63	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	1.13	25		
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	2.65	25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	0.965	25		
trans-1,4-Dichloro-2-butene	9.68	2.0	µg/L	10.0		96.8		70-130	1.54	25		
Dichlorodifluoromethane (Freon 12)	11.1	2.0	µg/L	10.0		111		40-160	4.77	25		†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116		70-130	0.0865	25		
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112		70-130	4.01	25		
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130	0.177	25		
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116		70-130	1.37	25		
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114		70-130	0.528	25		
1,2-Dichloropropane	12.1	1.0	µg/L	10.0		121		70-130	2.09	25		
1,3-Dichloropropane	11.8	0.50	µg/L	10.0		118		70-130	1.63	25		
2,2-Dichloropropane	11.3	1.0	µg/L	10.0		113		40-130	**68.1**	25	R-05	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B316234 - SW-846 5030B												
LCS Dup (B316234-BSD1)				Prepared: 08/31/22 Analyzed: 09/01/22								
1,1-Dichloropropene	11.0	2.0	µg/L	10.0		110		70-130	2.43	25		
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117		70-130	3.65	25		
trans-1,3-Dichloropropene	11.5	0.50	µg/L	10.0		115		70-130	3.26	25		
Diethyl Ether	11.5	2.0	µg/L	10.0		115		70-130	2.56	25		
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.0		122		70-130	1.38	25		
1,4-Dioxane	99.0	50	µg/L	100		99.0		40-130	6.72	50		† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107		70-130	0.282	25		
Hexachlorobutadiene	11.8	0.60	µg/L	10.0		118		70-130	1.43	25		
2-Hexanone (MBK)	117	10	µg/L	100		117		70-160	5.67	25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130	1.21	25		
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103		70-130	2.41	25		
Methyl Acetate	15.4	1.0	µg/L	10.0		**154**	*	70-130	3.71	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108		70-130	0.930	25		
Methyl Cyclohexane	11.7	1.0	µg/L	10.0		117		70-130	1.73	25		
Methylene Chloride	12.6	5.0	µg/L	10.0		126		70-130	1.26	25		
4-Methyl-2-pentanone (MIBK)	119	10	µg/L	100		119		70-160	5.33	25		†
Naphthalene	8.69	2.0	µg/L	10.0		86.9		40-130	1.51	25	V-05	†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107		70-130	0.653	25		
Styrene	10.6	1.0	µg/L	10.0		106		70-130	2.20	25		
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114		70-130	2.00	25		
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130	5.09	25		
Tetrachloroethylene	12.1	1.0	µg/L	10.0		121		70-130	2.51	25		
Tetrahydrofuran	12.6	10	µg/L	10.0		126		70-130	13.0	25		
Toluene	10.7	1.0	µg/L	10.0		107		70-130	0.00	25		
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109		70-130	1.95	25		
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130	2.76	25		
1,3,5-Trichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	0.754	25		
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.0		116		70-130	0.956	25		
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.0		118		70-130	6.29	25		
Trichloroethylene	11.6	1.0	µg/L	10.0		116		70-130	1.79	25		
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108		70-130	3.01	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103		70-130	3.55	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5	1.0	µg/L	10.0		125		70-130	0.322	25		
1,2,4-Trimethylbenzene	9.90	1.0	µg/L	10.0		99.0		70-130	1.10	25		
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107		70-130	1.22	25		
Vinyl Chloride	44.3	2.0	µg/L	10.0		**443**	*	40-160	4.65	25	L-02, V-20	†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130	0.0926	25		
o-Xylene	10.9	1.0	µg/L	10.0		109		70-130	0.0921	25		
Xylenes (total)	32.5	1.0	µg/L	30.0		108		0-200	0.0924			
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*26.5*		µg/L	25.0		106		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.
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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2023

22H1729

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CHAIN OF CUSTODY RECORD

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

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 ~~216959~~ 216859
Invoice Recipient:	Catherine Joe
Sampled By:	DANIEL C. LEARY 617-212-8276

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Other:

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

Data Delivery
Format: PDF ☑ EXCEL ☐
Other: Equis format
Enhanced Data Package Required: ☐
Email To: catherine.joe@aptim.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	EPA 8260C (VOCs)	# of Containers	[2] Preservation Code	[3] Container Code
									3	H	V
1	MW-112-20220829 ~~MW-112~~	8/29/22	0950		G	GW	U		3		
2	MW-116D-20220829 ~~MW-116D~~	8/29/22	1200		G	GW	U		3		
3	MW-116-20220829 ~~MW-116S~~	8/29/22	1040		G	GW	U		3		
	~~MW-D~~ (DUP)										

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)

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: 0700 8/30/22
Received by: (signature)	Date/Time: 8-30-22 1117
Relinquished by: (signature)	Date/Time: 8-30-22 1605
Received by: (signature)	Date/Time: 8/30/22 1605
Relinquished by: (signature)	Date/Time: 8/30/22 1750
Received by: (signature)	Date/Time: 8/31/22 1050

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

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Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

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

Client Received By: ADTMW Date: 08/30/22 Time: 1750

How were the samples received? In Cooler: T No Cooler: _____ On Ice: T No Ice: _____ Direct From Sample: _____ Ambient: _____ Melted Ice: _____

Were samples within Tempurature? Within 2-6°C: T By Gun #: 5 Actual Temp - 2.1 By Blank #: _____ Actual Temp - _____

Was Custody Seal In tact? 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? _____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T splitting samples require F

Were trip blanks receive F On COC? F

Do All Samples Have the proper pH? Acid T Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	9	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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December 7, 2022

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

Project Location: 333 Adelaide Avenue, Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 22K3516

Enclosed are results of analyses for samples as received by the laboratory on November 28, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa L. Ferrentino
Project Manager

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A Pace Analytical® Laboratory

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

REPORT DATE: 12/7/2022

PURCHASE ORDER NUMBER: 216859

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22K3516

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

PROJECT LOCATION: 333 Adelaide Avenue, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-207S-20221122	22K3516-01	Ground Water		SW-846 8260D	
MW-207D-20221122	22K3516-02	Ground Water		SW-846 8260D	
MW-202S-20221122	22K3516-03	Ground Water		SW-846 8260D	
MW-202D-20221122	22K3516-04	Ground Water		SW-846 8260D	
MW-101S-20221122	22K3516-05	Ground Water		SW-846 8260D	
MW-101S-20221122 FD	22K3516-06	Ground Water		SW-846 8260D	
MW-101D-20221122	22K3516-07	Ground Water		SW-846 8260D	
MW-201D-20221122	22K3516-08	Ground Water		SW-846 8260D	
MW-216S-20221122	22K3516-09	Ground Water		SW-846 8260D	
MW-216D-20221122	22K3516-10	Ground Water		SW-846 8260D	
MW-217S-20221122	22K3516-11	Ground Water		SW-846 8260D	
MW-217D-20221122	22K3516-12	Ground Water		SW-846 8260D	
MW-209D-20221122	22K3516-13	Ground Water		SW-846 8260D	
MW-112-20221122	22K3516-14	Ground Water		SW-846 8260D	
CW-06-20221122	22K3516-15	Ground Water		SW-846 8015C	
CW-06-20221122 FD	22K3516-16	Ground Water		SW-846 8015C	
MW-109D-20221122	22K3516-17	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20221122	22K3516-18	Ground Water		SW-846 6020B	
				SW-846 8260D	
GZA-3-20221122 FD	22K3516-19	Ground Water		SW-846 6020B	
MW-218S-20221122	22K3516-20	Ground Water		SW-846 8260D	
MW-218D-20221122	22K3516-21	Ground Water		SW-846 8260D	
CW-01-20221122	22K3516-22	Ground Water		SW-846 8260D	
CW-02-20221122	22K3516-23	Ground Water		SW-846 8260D	
MW-116S-20221122	22K3516-24	Ground Water		SW-846 8260D	
MW-116D-20221122	22K3516-25	Ground Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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SW-846 8015C

Qualifications:

Z-01

The sample exhibits a chromatographic pattern most similar to #2 Fuel oil.

Analyte & Samples(s) Qualified:

TPH (C9-C36)
22K3516-15[CW-06-20221122], 22K3516-16[CW-06-20221122 FD]

SW-846 8260D

Qualifications:

DL-01

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

Analyte & Samples(s) Qualified:

22K3516-11[MW-217S-20221122]

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:

Diisopropyl Ether (DIPE)
B324346-BS1, B324346-BSD1, S080037-CCV1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

trans-1,4-Dichloro-2-butene
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Vinyl Chloride
22K3516-09[MW-216S-20221122], 22K3516-18[GZA-3-20221122], B324346-BS1, B324346-BSD1, S080037-CCV1

L-07

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

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
B324346-BSD1

Methyl Cyclohexane
B324346-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

1,3,5-Trimethylbenzene
B324346-BSD1

2-Chlorotoluene
B324346-BSD1

4-Chlorotoluene
B324346-BSD1

Bromobenzene
B324346-BSD1

n-Propylbenzene
B324346-BSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

1,3,5-Trimethylbenzene

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

2-Chlorotoluene

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

4-Chlorotoluene

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

Bromobenzene

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

Isopropylbenzene (Cumene)

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

n-Propylbenzene

22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22K3516-05[MW-101S-20221122], 22K3516-06[MW-101S-20221122 FD], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

22K3516-09[MW-216S-20221122]

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V-05

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

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

1,2-Dibromo-3-chloropropane (DB
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

Bromomethane
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

Chloromethane
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

Naphthalene
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

tert-Butyl Alcohol (TBA)
22K3516-06[MW-101S-20221122 FD], 22K3516-07[MW-101D-20221122], 22K3516-08[MW-201D-20221122], 22K3516-09[MW-216S-20221122], 22K3516-10[MW-216D-20221122], 22K3516-11[MW-217S-20221122], 22K3516-12[MW-217D-20221122], 22K3516-13[MW-209D-20221122], 22K3516-14[MW-112-20221122], 22K3516-17[MW-109D-20221122], 22K3516-18[GZA-3-20221122], 22K3516-20[MW-218S-20221122], 22K3516-21[MW-218D-20221122], 22K3516-22[CW-01-20221122], 22K3516-23[CW-02-20221122], 22K3516-24[MW-116S-20221122], 22K3516-25[MW-116D-20221122], B324346-BLK1, B324346-BS1, B324346-BSD1, S080037-CCV1

Tetrahydrofuran
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

trans-1,4-Dichloro-2-butene
22K3516-01[MW-207S-20221122], 22K3516-02[MW-207D-20221122], 22K3516-03[MW-202S-20221122], 22K3516-04[MW-202D-20221122], 22K3516-05[MW-101S-20221122], B324458-BLK1, B324458-BS1, B324458-BSD1, S080121-CCV1

V-06

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

Analyte & Samples(s) Qualified:

Vinyl Chloride
22K3516-09[MW-216S-20221122], 22K3516-18[GZA-3-20221122], B324346-BS1, B324346-BSD1, S080037-CCV1

V-20

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

Analyte & Samples(s) Qualified:

2-Hexanone (MBK)
B324346-BS1, B324346-BSD1, S080037-CCV1

4-Methyl-2-pentanone (MIBK)
B324346-BS1, B324346-BSD1, S080037-CCV1

Diisopropyl Ether (DIPE)
B324346-BS1, B324346-BSD1, S080037-CCV1

Methyl Cyclohexane
B324346-BS1, B324346-BSD1, S080037-CCV1

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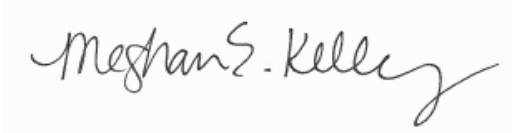
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-207S-20221122 Sampled: 11/22/2022 07:45

Sample ID: 22K3516-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-207S-20221122 Sampled: 11/22/2022 07:45

Sample ID: 22K3516-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 19:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.6	70-130		12/1/22 19:34
Toluene-d8	96.6	70-130		12/1/22 19:34
4-Bromofluorobenzene	101	70-130		12/1/22 19:34

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-207D-20221122 Sampled: 11/22/2022 08:30

Sample ID: 22K3516-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-207D-20221122 Sampled: 11/22/2022 08:30

Sample ID: 22K3516-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Tetrachloroethylene	1.2	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.4	70-130		12/1/22 20:00
Toluene-d8	95.8	70-130		12/1/22 20:00
4-Bromofluorobenzene	102	70-130		12/1/22 20:00

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-202S-20221122 Sampled: 11/22/2022 09:05

Sample ID: 22K3516-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-202S-20221122 Sampled: 11/22/2022 09:05

Sample ID: 22K3516-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Tetrachloroethylene	4.0	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.5	70-130		12/1/22 20:26
Toluene-d8	96.7	70-130		12/1/22 20:26
4-Bromofluorobenzene	101	70-130		12/1/22 20:26

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-202D-20221122 Sampled: 11/22/2022 09:30

Sample ID: 22K3516-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-202D-20221122 Sampled: 11/22/2022 09:30

Sample ID: 22K3516-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Tetrachloroethylene	2.3	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	12/1/22	12/1/22 20:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.1	70-130		12/1/22 20:52
Toluene-d8	96.4	70-130		12/1/22 20:52
4-Bromofluorobenzene	99.7	70-130		12/1/22 20:52

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101S-20221122 Sampled: 11/22/2022 10:00

Sample ID: 22K3516-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Acrylonitrile	ND	50	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Benzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Bromobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Bromochloromethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Bromoform	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Bromomethane	ND	20	µg/L	10	V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Chlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Chloroethane	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Chloroform	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Chloromethane	ND	20	µg/L	10	V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Dibromomethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10	L-04, V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
cis-1,2-Dichloroethylene	16	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Diethyl Ether	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101S-20221122 Sampled: 11/22/2022 10:00

Sample ID: 22K3516-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,4-Dioxane	ND	500	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Ethylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Methyl Acetate	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Methylene Chloride	ND	50	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Naphthalene	ND	20	µg/L	10	V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Styrene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Tetrachloroethylene	530	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Tetrahydrofuran	ND	100	µg/L	10	V-05	SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Toluene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Trichloroethylene	33	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
m+p Xylene	ND	20	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
o-Xylene	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF
Xylenes (total)	ND	10	µg/L	10		SW-846 8260D	12/1/22	12/1/22 21:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.1	70-130		12/1/22 21:18
Toluene-d8	97.1	70-130		12/1/22 21:18
4-Bromofluorobenzene	100	70-130		12/1/22 21:18

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101S-20221122 FD Sampled: 11/22/2022 10:00

Sample ID: 22K3516-06

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	500	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Benzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Bromobenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Bromoform	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
2-Chlorotoluene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
4-Chlorotoluene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1-Dichloroethylene	ND	10	µg/L	10	V-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
cis-1,2-Dichloroethylene	30	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101S-20221122 FD Sampled: 11/22/2022 10:00

Sample ID: 22K3516-06

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	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,4-Dioxane	ND	500	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Methyl Acetate	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
n-Propylbenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Styrene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Tetrachloroethylene	600	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Toluene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Trichloroethylene	39	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH
Xylenes (total)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		11/30/22 20:59
Toluene-d8	101	70-130		11/30/22 20:59
4-Bromofluorobenzene	90.5	70-130		11/30/22 20:59

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101D-20221122 Sampled: 11/22/2022 10:30

Sample ID: 22K3516-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-101D-20221122 Sampled: 11/22/2022 10:30

Sample ID: 22K3516-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Tetrachloroethylene	6.9	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 14:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 14:30
Toluene-d8	101	70-130		11/30/22 14:30
4-Bromofluorobenzene	92.6	70-130		11/30/22 14:30

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-201D-20221122 Sampled: 11/22/2022 11:00

Sample ID: 22K3516-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
cis-1,2-Dichloroethylene	29	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-201D-20221122 Sampled: 11/22/2022 11:00

Sample ID: 22K3516-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Tetrachloroethylene	15	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Trichloroethylene	4.0	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/30/22 19:08
Toluene-d8	100	70-130		11/30/22 19:08
4-Bromofluorobenzene	94.4	70-130		11/30/22 19:08

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-216S-20221122 Sampled: 11/22/2022 11:45

Sample ID: 22K3516-09

Sample Matrix: Ground Water

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Bromobenzene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Bromoform	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
2-Chlorotoluene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
4-Chlorotoluene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2	V-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
cis-1,2-Dichloroethylene	7.0	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-216S-20221122 Sampled: 11/22/2022 11:45

Sample ID: 22K3516-09

Sample Matrix: Ground Water

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Ethylbenzene	3.1	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Naphthalene	15	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
n-Propylbenzene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,2,4-Trimethylbenzene	11	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
1,3,5-Trimethylbenzene	4.0	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Vinyl Chloride	20	4.0	µg/L	2	L-06, V-06	SW-846 8260D	11/30/22	11/30/22 14:58	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
o-Xylene	9.2	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH
Xylenes (total)	13	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 14:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/30/22 14:58
Toluene-d8	101	70-130		11/30/22 14:58
4-Bromofluorobenzene	95.6	70-130		11/30/22 14:58

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-216D-20221122 Sampled: 11/22/2022 12:30

Sample ID: 22K3516-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-216D-20221122 Sampled: 11/22/2022 12:30

Sample ID: 22K3516-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 15:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 15:26
Toluene-d8	101	70-130		11/30/22 15:26
4-Bromofluorobenzene	93.6	70-130		11/30/22 15:26

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-217S-20221122 Sampled: 11/22/2022 13:15

Sample ID: 22K3516-11

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Acrylonitrile	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Bromobenzene	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Bromoform	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Bromomethane	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4	V-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Carbon Disulfide	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Chloromethane	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
2-Chlorotoluene	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
4-Chlorotoluene	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4	V-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-217S-20221122 Sampled: 11/22/2022 13:15

Sample ID: 22K3516-11

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,4-Dioxane	ND	200	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Hexachlorobutadiene	ND	2.4	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Methyl Acetate	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Methyl Cyclohexane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
n-Propylbenzene	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Tetrachloroethylene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Trichloroethylene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4	R-05	SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH
Xylenes (total)	ND	4.0	µg/L	4		SW-846 8260D	11/30/22	11/30/22 15:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/30/22 15:53
Toluene-d8	100	70-130		11/30/22 15:53
4-Bromofluorobenzene	94.6	70-130		11/30/22 15:53

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-217D-20221122 Sampled: 11/22/2022 14:00

Sample ID: 22K3516-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
cis-1,2-Dichloroethylene	1.0	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-217D-20221122 Sampled: 11/22/2022 14:00

Sample ID: 22K3516-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Trichloroethylene	1.6	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/30/22 16:21
Toluene-d8	102	70-130		11/30/22 16:21
4-Bromofluorobenzene	93.1	70-130		11/30/22 16:21

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-209D-20221122 Sampled: 11/22/2022 14:45

Sample ID: 22K3516-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Benzene	1.6	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
cis-1,2-Dichloroethylene	8.0	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-209D-20221122 Sampled: 11/22/2022 14:45

Sample ID: 22K3516-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Tetrachloroethylene	55	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Trichloroethylene	18	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 19:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 19:36
Toluene-d8	101	70-130		11/30/22 19:36
4-Bromofluorobenzene	94.9	70-130		11/30/22 19:36

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-112-20221122 Sampled: 11/22/2022 15:30

Sample ID: 22K3516-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-112-20221122 Sampled: 11/22/2022 15:30

Sample ID: 22K3516-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Tetrachloroethylene	29	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Trichloroethylene	1.6	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 20:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 20:03
Toluene-d8	101	70-130		11/30/22 20:03
4-Bromofluorobenzene	91.7	70-130		11/30/22 20:03

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-06-20221122 Sampled: 11/23/2022 07:30

Sample ID: 22K3516-15

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	10	0.96	mg/L	5	Z-01	SW-846 8015C	11/30/22	12/4/22 10:14	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	78.4	40-140		12/4/22 10:14

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: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-06-20221122 FD Sampled: 11/23/2022 07:30

Sample ID: 22K3516-16

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	0.97	mg/L	5	Z-01	SW-846 8015C	11/30/22	12/4/22 10:35	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	72.7	40-140		12/4/22 10:35

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-109D-20221122 Sampled: 11/23/2022 07:54

Sample ID: 22K3516-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-109D-20221122 Sampled: 11/23/2022 07:54

Sample ID: 22K3516-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Trichloroethylene	2.5	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 16:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		11/30/22 16:49
Toluene-d8	100	70-130		11/30/22 16:49
4-Bromofluorobenzene	92.8	70-130		11/30/22 16:49

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-109D-20221122 Sampled: 11/23/2022 07:54

Sample ID: 22K3516-17

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	12/1/22	12/2/22 15:29	BMV

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: GZA-3-20221122 Sampled: 11/23/2022 09:50

Sample ID: 22K3516-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: GZA-3-20221122 Sampled: 11/23/2022 09:50

Sample ID: 22K3516-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Vinyl Chloride	22	2.0	µg/L	1	L-06, V-06	SW-846 8260D	11/30/22	11/30/22 17:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/30/22 17:17
Toluene-d8	100	70-130		11/30/22 17:17
4-Bromofluorobenzene	93.5	70-130		11/30/22 17:17

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: GZA-3-20221122 Sampled: 11/23/2022 09:50

Sample ID: 22K3516-18

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	12/1/22	12/2/22 15:32	BMV

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: GZA-3-20221122 FD Sampled: 11/23/2022 09:50

Sample ID: 22K3516-19

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	12/1/22	12/2/22 15:35	BMV

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-218S-20221122 Sampled: 11/23/2022 10:30

Sample ID: 22K3516-20

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Bromobenzene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Bromoform	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
2-Chlorotoluene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
4-Chlorotoluene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2	V-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-218S-20221122 Sampled: 11/23/2022 10:30

Sample ID: 22K3516-20

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
n-Propylbenzene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Tetrachloroethylene	160	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2	R-05	SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH
Xylenes (total)	ND	2.0	µg/L	2		SW-846 8260D	11/30/22	11/30/22 21:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		11/30/22 21:26
Toluene-d8	99.6	70-130		11/30/22 21:26
4-Bromofluorobenzene	91.5	70-130		11/30/22 21:26

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-218D-20221122 Sampled: 11/23/2022 11:00

Sample ID: 22K3516-21

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Acrylonitrile	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Benzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Bromobenzene	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Bromochloromethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Bromoform	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Bromomethane	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50	V-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Carbon Disulfide	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Chlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Chloroethane	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Chloroform	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Chloromethane	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
2-Chlorotoluene	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
4-Chlorotoluene	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Dibromomethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1-Dichloroethylene	ND	50	µg/L	50	V-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Diethyl Ether	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-218D-20221122 Sampled: 11/23/2022 11:00

Sample ID: 22K3516-21

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,4-Dioxane	ND	2500	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Ethylbenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Isopropylbenzene (Cumene)	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Methyl Acetate	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Methylene Chloride	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Naphthalene	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
n-Propylbenzene	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Styrene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Tetrachloroethylene	2600	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Toluene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Trichloroethylene	350	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
1,3,5-Trimethylbenzene	ND	50	µg/L	50	R-05	SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
m+p Xylene	ND	100	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
o-Xylene	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH
Xylenes (total)	ND	50	µg/L	50		SW-846 8260D	11/30/22	11/30/22 21:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		11/30/22 21:53
Toluene-d8	102	70-130		11/30/22 21:53
4-Bromofluorobenzene	93.3	70-130		11/30/22 21:53

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-01-20221122 Sampled: 11/23/2022 11:30

Sample ID: 22K3516-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Benzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Bromobenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Bromoform	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Carbon Disulfide	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
2-Chlorotoluene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
4-Chlorotoluene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1-Dichloroethylene	ND	10	µg/L	10	V-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
cis-1,2-Dichloroethylene	60	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
trans-1,2-Dichloroethylene	12	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-01-20221122 Sampled: 11/23/2022 11:30

Sample ID: 22K3516-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,4-Dioxane	ND	500	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Methyl Acetate	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
n-Propylbenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Styrene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Tetrachloroethylene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Toluene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Trichloroethylene	780	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10	R-05	SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH
Xylenes (total)	ND	10	µg/L	10		SW-846 8260D	11/30/22	11/30/22 20:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		11/30/22 20:31
Toluene-d8	100	70-130		11/30/22 20:31
4-Bromofluorobenzene	93.7	70-130		11/30/22 20:31

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-02-20221122 Sampled: 11/23/2022 12:00

Sample ID: 22K3516-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: CW-02-20221122 Sampled: 11/23/2022 12:00

Sample ID: 22K3516-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Methyl tert-Butyl Ether (MTBE)	2.6	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Trichloroethylene	1.1	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 17:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 17:44
Toluene-d8	101	70-130		11/30/22 17:44
4-Bromofluorobenzene	93.8	70-130		11/30/22 17:44

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-116S-20221122 Sampled: 11/23/2022 12:50

Sample ID: 22K3516-24

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-116S-20221122 Sampled: 11/23/2022 12:50

Sample ID: 22K3516-24

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 18:12
Toluene-d8	100	70-130		11/30/22 18:12
4-Bromofluorobenzene	92.4	70-130		11/30/22 18:12

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-116D-20221122 Sampled: 11/23/2022 13:40

Sample ID: 22K3516-25

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Bromobenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
2-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
4-Chlorotoluene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH

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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: 22K3516

Date Received: 11/28/2022

Field Sample #: MW-116D-20221122 Sampled: 11/23/2022 13:40

Sample ID: 22K3516-25

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	R-05	SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/30/22	11/30/22 18:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/30/22 18:40
Toluene-d8	102	70-130		11/30/22 18:40
4-Bromofluorobenzene	94.7	70-130		11/30/22 18:40

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K3516-17 [MW-109D-20221122]	B324557	50.0	50.0	12/01/22
22K3516-18 [GZA-3-20221122]	B324557	50.0	50.0	12/01/22
22K3516-19 [GZA-3-20221122 FD]	B324557	50.0	50.0	12/01/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K3516-15 [CW-06-20221122]	B324342	1040	1.00	11/30/22
22K3516-16 [CW-06-20221122 FD]	B324342	1040	1.00	11/30/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K3516-06 [MW-101S-20221122 FD]	B324346	0.5	5.00	11/30/22
22K3516-07 [MW-101D-20221122]	B324346	5	5.00	11/30/22
22K3516-08 [MW-201D-20221122]	B324346	5	5.00	11/30/22
22K3516-09 [MW-216S-20221122]	B324346	2.5	5.00	11/30/22
22K3516-10 [MW-216D-20221122]	B324346	5	5.00	11/30/22
22K3516-11 [MW-217S-20221122]	B324346	1.25	5.00	11/30/22
22K3516-12 [MW-217D-20221122]	B324346	5	5.00	11/30/22
22K3516-13 [MW-209D-20221122]	B324346	5	5.00	11/30/22
22K3516-14 [MW-112-20221122]	B324346	5	5.00	11/30/22
22K3516-17 [MW-109D-20221122]	B324346	5	5.00	11/30/22
22K3516-18 [GZA-3-20221122]	B324346	5	5.00	11/30/22
22K3516-20 [MW-218S-20221122]	B324346	2.5	5.00	11/30/22
22K3516-21 [MW-218D-20221122]	B324346	0.1	5.00	11/30/22
22K3516-22 [CW-01-20221122]	B324346	0.5	5.00	11/30/22
22K3516-23 [CW-02-20221122]	B324346	5	5.00	11/30/22
22K3516-24 [MW-116S-20221122]	B324346	5	5.00	11/30/22
22K3516-25 [MW-116D-20221122]	B324346	5	5.00	11/30/22

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K3516-01 [MW-207S-20221122]	B324458	5	5.00	12/01/22
22K3516-02 [MW-207D-20221122]	B324458	5	5.00	12/01/22
22K3516-03 [MW-202S-20221122]	B324458	5	5.00	12/01/22
22K3516-04 [MW-202D-20221122]	B324458	5	5.00	12/01/22
22K3516-05 [MW-101S-20221122]	B324458	0.5	5.00	12/01/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B324346 - SW-846 5030B										
Blank (B324346-BLK1)				Prepared & Analyzed: 11/30/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							R-05
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							R-05
4-Chlorotoluene	ND	1.0	µg/L							R-05
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							V-05
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							R-05
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B324346 - SW-846 5030B											
Blank (B324346-BLK1)				Prepared & Analyzed: 11/30/22							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L							R-05	
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							R-05	
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							R-05	
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.9	70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.2	70-130				
LCS (B324346-BS1)				Prepared & Analyzed: 11/30/22							
Acetone	93.6	50	µg/L	100		93.6	70-160				†
Acrylonitrile	8.04	5.0	µg/L	10.0		80.4	70-130				
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130				
Benzene	10.1	1.0	µg/L	10.0		101	70-130				
Bromobenzene	8.83	1.0	µg/L	10.0		88.3	70-130			R-05	
Bromochloromethane	11.9	1.0	µg/L	10.0		119	70-130				
Bromodichloromethane	10.9	0.50	µg/L	10.0		109	70-130				
Bromoform	8.84	1.0	µg/L	10.0		88.4	70-130				
Bromomethane	11.8	2.0	µg/L	10.0		118	40-160				†
2-Butanone (MEK)	120	20	µg/L	100		120	40-160				†
tert-Butyl Alcohol (TBA)	62.8	20	µg/L	100		62.8	40-160			V-05	†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
tert-Butyl Ethyl Ether (TBEE)	11.8	0.50	µg/L	10.0		118	70-130				
Carbon Disulfide	107	5.0	µg/L	100		107	70-130				
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105	70-130				
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130				
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130				
Chloroethane	11.8	2.0	µg/L	10.0		118	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 B324346 - SW-846 5030B												
LCS (B324346-BS1)				Prepared & Analyzed: 11/30/22								
Chloroform	10.3	2.0	µg/L	10.0		103		70-130				
Chloromethane	10.1	2.0	µg/L	10.0		101		40-160				†
2-Chlorotoluene	9.00	1.0	µg/L	10.0		90.0		70-130			R-05	
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105		70-130			R-05	
1,2-Dibromo-3-chloropropane (DBCP)	9.30	5.0	µg/L	10.0		93.0		70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130				
Dibromomethane	10.6	1.0	µg/L	10.0		106		70-130				
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
1,4-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9		70-130				
trans-1,4-Dichloro-2-butene	10.3	2.0	µg/L	10.0		103		70-130				
Dichlorodifluoromethane (Freon 12)	9.63	2.0	µg/L	10.0		96.3		40-160				†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109		70-130				
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
1,1-Dichloroethylene	7.19	1.0	µg/L	10.0		71.9		70-130			V-05	
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111		70-130				
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107		70-130				
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115		70-130				
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114		70-130				
2,2-Dichloropropane	10.0	1.0	µg/L	10.0		100		40-130				†
1,1-Dichloropropene	11.4	2.0	µg/L	10.0		114		70-130				
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130				
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130				
Diethyl Ether	8.22	2.0	µg/L	10.0		82.2		70-130				
Diisopropyl Ether (DIPE)	13.5	0.50	µg/L	10.0		**135**	*	70-130			L-02, V-20	
1,4-Dioxane	94.8	50	µg/L	100		94.8		40-130				†
Ethylbenzene	9.67	1.0	µg/L	10.0		96.7		70-130				
Hexachlorobutadiene	11.2	0.60	µg/L	10.0		112		70-130				
2-Hexanone (MBK)	139	10	µg/L	100		139		70-160			V-20	†
Isopropylbenzene (Cumene)	8.14	1.0	µg/L	10.0		81.4		70-130			R-05	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105		70-130				
Methyl Acetate	12.0	1.0	µg/L	10.0		120		70-130				
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0		109		70-130				
Methyl Cyclohexane	12.5	1.0	µg/L	10.0		125		70-130			V-20	
Methylene Chloride	8.42	5.0	µg/L	10.0		84.2		70-130				
4-Methyl-2-pentanone (MIBK)	133	10	µg/L	100		133		70-160			V-20	†
Naphthalene	8.90	2.0	µg/L	10.0		89.0		40-130				†
n-Propylbenzene	8.82	1.0	µg/L	10.0		88.2		70-130			R-05	
Styrene	8.95	1.0	µg/L	10.0		89.5		70-130				
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130				
1,1,2,2-Tetrachloroethane	8.09	0.50	µg/L	10.0		80.9		70-130			R-05	
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116		70-130				
Tetrahydrofuran	10.8	10	µg/L	10.0		108		70-130				
Toluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2,3-Trichlorobenzene	9.67	5.0	µg/L	10.0		96.7		70-130				
1,2,4-Trichlorobenzene	9.96	1.0	µg/L	10.0		99.6		70-130				
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109		70-130				
Trichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
Trichlorofluoromethane (Freon 11)	8.14	2.0	µg/L	10.0		81.4		70-130				
1,2,3-Trichloropropane	8.94	2.0	µg/L	10.0		89.4		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B324346 - SW-846 5030B													
LCS (B324346-BS1)				Prepared & Analyzed: 11/30/22									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.54	1.0	µg/L	10.0		95.4		70-130					
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130					
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130				R-05	
Vinyl Chloride	22.6	2.0	µg/L	10.0		**226**	*	40-160				L-06, V-06	†
m+p Xylene	19.0	2.0	µg/L	20.0		95.2		70-130					
o-Xylene	8.54	1.0	µg/L	10.0		85.4		70-130					
Xylenes (total)	27.6	1.0	µg/L	30.0		92.0		0-200					
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101		70-130					
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130					
Surrogate: 4-Bromofluorobenzene	*19.6*		µg/L	25.0		78.6		70-130					
LCS Dup (B324346-BSD1)				Prepared & Analyzed: 11/30/22									
Acetone	87.1	50	µg/L	100		87.1		70-160	7.17		25		†
Acrylonitrile	7.54	5.0	µg/L	10.0		75.4		70-130	6.42		25		
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107		70-130	4.48		25		
Benzene	10.2	1.0	µg/L	10.0		102		70-130	0.989		25		
Bromobenzene	14.4	1.0	µg/L	10.0		**144**	*	70-130	**47.8**	*	25	L-07A, R-05	
Bromochloromethane	11.8	1.0	µg/L	10.0		118		70-130	0.253		25		
Bromodichloromethane	11.2	0.50	µg/L	10.0		112		70-130	2.99		25		
Bromoform	10.3	1.0	µg/L	10.0		103		70-130	15.0		25		
Bromomethane	13.0	2.0	µg/L	10.0		130		40-160	9.12		25		†
2-Butanone (MEK)	121	20	µg/L	100		121		40-160	0.474		25		†
tert-Butyl Alcohol (TBA)	64.9	20	µg/L	100		64.9		40-160	3.34		25	V-05	†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130	6.62		25		
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108		70-130	5.91		25		
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130	4.31		25		
tert-Butyl Ethyl Ether (TBEE)	12.0	0.50	µg/L	10.0		120		70-130	1.76		25		
Carbon Disulfide	105	5.0	µg/L	100		105		70-130	1.56		25		
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105		70-130	0.572		25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	1.95		25		
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102		70-130	1.07		25		
Chloroethane	12.3	2.0	µg/L	10.0		123		70-130	4.16		25		
Chloroform	10.4	2.0	µg/L	10.0		104		70-130	0.387		25		
Chloromethane	10.2	2.0	µg/L	10.0		102		40-160	1.08		25		†
2-Chlorotoluene	13.1	1.0	µg/L	10.0		**131**	*	70-130	**37.4**	*	25	L-07A, R-05	
4-Chlorotoluene	13.9	1.0	µg/L	10.0		**139**	*	70-130	**27.9**	*	25	L-07A, R-05	
1,2-Dibromo-3-chloropropane (DBCP)	9.85	5.0	µg/L	10.0		98.5		70-130	5.74		25		
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130	0.577		25		
Dibromomethane	10.4	1.0	µg/L	10.0		104		70-130	1.71		25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	3.34		25		
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	6.40		25		
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	2.57		25		
trans-1,4-Dichloro-2-butene	12.7	2.0	µg/L	10.0		127		70-130	21.6		25		
Dichlorodifluoromethane (Freon 12)	9.53	2.0	µg/L	10.0		95.3		40-160	1.04		25		†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	0.824		25		
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111		70-130	0.451		25		
1,1-Dichloroethylene	6.76	1.0	µg/L	10.0		**67.6**	*	70-130	6.16		25	L-07, V-05	
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114		70-130	2.50		25		
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110		70-130	2.58		25		
1,2-Dichloropropane	12.1	1.0	µg/L	10.0		121		70-130	5.60		25		
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116		70-130	1.74		25		
2,2-Dichloropropane	9.80	1.0	µg/L	10.0		98.0		40-130	2.52		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 B324346 - SW-846 5030B													
LCS Dup (B324346-BSD1)				Prepared & Analyzed: 11/30/22									
1,1-Dichloropropene	11.3	2.0	µg/L	10.0		113		70-130	0.616		25		
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111		70-130	3.02		25		
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130	4.06		25		
Diethyl Ether	7.88	2.0	µg/L	10.0		78.8		70-130	4.22		25		
Diisopropyl Ether (DIPE)	13.3	0.50	µg/L	10.0		**133**	*	70-130	1.57		25	L-02, V-20	
1,4-Dioxane	104	50	µg/L	100		104		40-130	8.87		50		† ‡
Ethylbenzene	11.2	1.0	µg/L	10.0		112		70-130	15.1		25		
Hexachlorobutadiene	12.0	0.60	µg/L	10.0		120		70-130	6.62		25		
2-Hexanone (MBK)	143	10	µg/L	100		143		70-160	2.92		25	V-20	†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111		70-130	**30.9**	*	25	R-05	
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110		70-130	5.11		25		
Methyl Acetate	13.0	1.0	µg/L	10.0		130		70-130	7.99		25		
Methyl tert-Butyl Ether (MTBE)	11.3	1.0	µg/L	10.0		113		70-130	3.61		25		
Methyl Cyclohexane	13.1	1.0	µg/L	10.0		**131**	*	70-130	4.92		25	L-07, V-20	
Methylene Chloride	8.52	5.0	µg/L	10.0		85.2		70-130	1.18		25		
4-Methyl-2-pentanone (MIBK)	137	10	µg/L	100		137		70-160	3.21		25	V-20	†
Naphthalene	9.99	2.0	µg/L	10.0		99.9		40-130	11.5		25		†
n-Propylbenzene	14.0	1.0	µg/L	10.0		**140**	*	70-130	**45.1**	*	25	L-07A, R-05	
Styrene	10.6	1.0	µg/L	10.0		106		70-130	17.3		25		
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130	1.82		25		
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109		70-130	**29.3**	*	25	R-05	
Tetrachloroethylene	11.7	1.0	µg/L	10.0		117		70-130	0.428		25		
Tetrahydrofuran	12.6	10	µg/L	10.0		126		70-130	15.2		25		
Toluene	10.9	1.0	µg/L	10.0		109		70-130	1.30		25		
1,2,3-Trichlorobenzene	11.1	5.0	µg/L	10.0		111		70-130	13.9		25		
1,2,4-Trichlorobenzene	11.3	1.0	µg/L	10.0		113		70-130	12.9		25		
1,3,5-Trichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	6.65		25		
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130	0.381		25		
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112		70-130	2.80		25		
Trichloroethylene	11.0	1.0	µg/L	10.0		110		70-130	3.23		25		
Trichlorofluoromethane (Freon 11)	7.43	2.0	µg/L	10.0		74.3		70-130	9.12		25		
1,2,3-Trichloropropane	9.95	2.0	µg/L	10.0		99.5		70-130	10.7		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.65	1.0	µg/L	10.0		96.5		70-130	1.15		25		
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108		70-130	4.07		25		
1,3,5-Trimethylbenzene	14.1	1.0	µg/L	10.0		**141**	*	70-130	**29.2**	*	25	L-07A, R-05	
Vinyl Chloride	22.5	2.0	µg/L	10.0		**225**	*	40-160	0.133		25	L-06, V-06	†
m+p Xylene	22.8	2.0	µg/L	20.0		114		70-130	18.0		25		
o-Xylene	10.3	1.0	µg/L	10.0		103		70-130	19.0		25		
Xylenes (total)	33.2	1.0	µg/L	30.0		110		0-200	18.3				
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102		70-130					
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130					
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		106		70-130					

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B324458 - SW-846 5030B										
Blank (B324458-BLK1)				Prepared & Analyzed: 12/01/22						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							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							L-04, V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							L-04, V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B324458 - SW-846 5030B											
Blank (B324458-BLK1)				Prepared & Analyzed: 12/01/22							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L							V-05	
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L							V-05	
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	*21.9*		µg/L	25.0		87.6	70-130				
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130				
LCS (B324458-BS1)				Prepared & Analyzed: 12/01/22							
Acetone	92.5	50	µg/L	100		92.5	70-160				†
Acrylonitrile	8.58	5.0	µg/L	10.0		85.8	70-130				
tert-Amyl Methyl Ether (TAME)	9.01	0.50	µg/L	10.0		90.1	70-130				
Benzene	9.52	1.0	µg/L	10.0		95.2	70-130				
Bromobenzene	9.82	1.0	µg/L	10.0		98.2	70-130				
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130				
Bromodichloromethane	9.79	0.50	µg/L	10.0		97.9	70-130				
Bromoform	9.45	1.0	µg/L	10.0		94.5	70-130				
Bromomethane	7.27	2.0	µg/L	10.0		72.7	40-160			V-05	†
2-Butanone (MEK)	91.9	20	µg/L	100		91.9	40-160				†
tert-Butyl Alcohol (TBA)	91.6	20	µg/L	100		91.6	40-160				†
n-Butylbenzene	8.55	1.0	µg/L	10.0		85.5	70-130				
sec-Butylbenzene	8.63	1.0	µg/L	10.0		86.3	70-130				
tert-Butylbenzene	9.06	1.0	µg/L	10.0		90.6	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.27	0.50	µg/L	10.0		92.7	70-130				
Carbon Disulfide	85.7	5.0	µg/L	100		85.7	70-130				
Carbon Tetrachloride	9.77	5.0	µg/L	10.0		97.7	70-130				
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130				
Chlorodibromomethane	9.97	0.50	µg/L	10.0		99.7	70-130				
Chloroethane	9.21	2.0	µg/L	10.0		92.1	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B324458 - SW-846 5030B												
LCS (B324458-BS1)				Prepared & Analyzed: 12/01/22								
Chloroform	9.60	2.0	µg/L	10.0		96.0		70-130				
Chloromethane	7.04	2.0	µg/L	10.0		70.4		40-160			V-05	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101		70-130				
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	6.99	5.0	µg/L	10.0		**69.9**	*	70-130			L-04, V-05	
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111		70-130				
Dibromomethane	11.1	1.0	µg/L	10.0		111		70-130				
1,2-Dichlorobenzene	9.51	1.0	µg/L	10.0		95.1		70-130				
1,3-Dichlorobenzene	9.32	1.0	µg/L	10.0		93.2		70-130				
1,4-Dichlorobenzene	9.46	1.0	µg/L	10.0		94.6		70-130				
trans-1,4-Dichloro-2-butene	6.58	2.0	µg/L	10.0		**65.8**	*	70-130			L-04, V-05	
Dichlorodifluoromethane (Freon 12)	9.05	2.0	µg/L	10.0		90.5		40-160				†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101		70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1-Dichloroethylene	9.61	1.0	µg/L	10.0		96.1		70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106		70-130				
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106		70-130				
2,2-Dichloropropane	8.84	1.0	µg/L	10.0		88.4		40-130				†
1,1-Dichloropropene	9.90	2.0	µg/L	10.0		99.0		70-130				
cis-1,3-Dichloropropene	9.41	0.50	µg/L	10.0		94.1		70-130				
trans-1,3-Dichloropropene	9.51	0.50	µg/L	10.0		95.1		70-130				
Diethyl Ether	8.97	2.0	µg/L	10.0		89.7		70-130				
Diisopropyl Ether (DIPE)	8.39	0.50	µg/L	10.0		83.9		70-130				
1,4-Dioxane	90.6	50	µg/L	100		90.6		40-130				†
Ethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Hexachlorobutadiene	9.58	0.60	µg/L	10.0		95.8		70-130				
2-Hexanone (MBK)	93.6	10	µg/L	100		93.6		70-160				†
Isopropylbenzene (Cumene)	9.95	1.0	µg/L	10.0		99.5		70-130				
p-Isopropyltoluene (p-Cymene)	8.79	1.0	µg/L	10.0		87.9		70-130				
Methyl Acetate	9.19	1.0	µg/L	10.0		91.9		70-130				
Methyl tert-Butyl Ether (MTBE)	9.37	1.0	µg/L	10.0		93.7		70-130				
Methyl Cyclohexane	9.85	1.0	µg/L	10.0		98.5		70-130				
Methylene Chloride	8.67	5.0	µg/L	10.0		86.7		70-130				
4-Methyl-2-pentanone (MIBK)	92.6	10	µg/L	100		92.6		70-160				†
Naphthalene	7.04	2.0	µg/L	10.0		70.4		40-130			V-05	†
n-Propylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Styrene	9.99	1.0	µg/L	10.0		99.9		70-130				
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130				
1,1,2,2-Tetrachloroethane	9.81	0.50	µg/L	10.0		98.1		70-130				
Tetrachloroethylene	12.1	1.0	µg/L	10.0		121		70-130				
Tetrahydrofuran	7.61	10	µg/L	10.0		76.1		70-130			V-05	
Toluene	10.7	1.0	µg/L	10.0		107		70-130				
1,2,3-Trichlorobenzene	8.18	5.0	µg/L	10.0		81.8		70-130				
1,2,4-Trichlorobenzene	8.99	1.0	µg/L	10.0		89.9		70-130				
1,3,5-Trichlorobenzene	9.29	1.0	µg/L	10.0		92.9		70-130				
1,1,1-Trichloroethane	9.81	1.0	µg/L	10.0		98.1		70-130				
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110		70-130				
Trichloroethylene	11.5	1.0	µg/L	10.0		115		70-130				
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102		70-130				
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		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	
Batch B324458 - SW-846 5030B												
LCS (B324458-BS1)				Prepared & Analyzed: 12/01/22								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107		70-130				
1,2,4-Trimethylbenzene	8.77	1.0	µg/L	10.0		87.7		70-130				
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Vinyl Chloride	9.28	2.0	µg/L	10.0		92.8		40-160				†
m+p Xylene	21.1	2.0	µg/L	20.0		106		70-130				
o-Xylene	10.2	1.0	µg/L	10.0		102		70-130				
Xylenes (total)	31.4	1.0	µg/L	30.0		105		0-200				
Surrogate: 1,2-Dichloroethane-d4	*22.8*		µg/L	25.0		91.2		70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.6		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		70-130				
LCS Dup (B324458-BSD1)				Prepared & Analyzed: 12/01/22								
Acetone	88.3	50	µg/L	100		88.3		70-160	4.64	25		†
Acrylonitrile	8.04	5.0	µg/L	10.0		80.4		70-130	6.50	25		
tert-Amyl Methyl Ether (TAME)	8.58	0.50	µg/L	10.0		85.8		70-130	4.89	25		
Benzene	9.21	1.0	µg/L	10.0		92.1		70-130	3.31	25		
Bromobenzene	9.66	1.0	µg/L	10.0		96.6		70-130	1.64	25		
Bromochloromethane	10.9	1.0	µg/L	10.0		109		70-130	3.41	25		
Bromodichloromethane	9.53	0.50	µg/L	10.0		95.3		70-130	2.69	25		
Bromoform	9.63	1.0	µg/L	10.0		96.3		70-130	1.89	25		
Bromomethane	7.01	2.0	µg/L	10.0		70.1		40-160	3.64	25	V-05	†
2-Butanone (MEK)	84.4	20	µg/L	100		84.4		40-160	8.51	25		†
tert-Butyl Alcohol (TBA)	82.9	20	µg/L	100		82.9		40-160	10.0	25		†
n-Butylbenzene	8.57	1.0	µg/L	10.0		85.7		70-130	0.234	25		
sec-Butylbenzene	8.51	1.0	µg/L	10.0		85.1		70-130	1.40	25		
tert-Butylbenzene	8.86	1.0	µg/L	10.0		88.6		70-130	2.23	25		
tert-Butyl Ethyl Ether (TBEE)	8.84	0.50	µg/L	10.0		88.4		70-130	4.75	25		
Carbon Disulfide	82.0	5.0	µg/L	100		82.0		70-130	4.52	25		
Carbon Tetrachloride	9.23	5.0	µg/L	10.0		92.3		70-130	5.68	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	2.55	25		
Chlorodibromomethane	9.81	0.50	µg/L	10.0		98.1		70-130	1.62	25		
Chloroethane	8.86	2.0	µg/L	10.0		88.6		70-130	3.87	25		
Chloroform	9.25	2.0	µg/L	10.0		92.5		70-130	3.71	25		
Chloromethane	6.85	2.0	µg/L	10.0		68.5		40-160	2.74	25	V-05	†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100		70-130	0.496	25		
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130	1.55	25		
1,2-Dibromo-3-chloropropane (DBCP)	6.52	5.0	µg/L	10.0		**65.2**	*	70-130	6.96	25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107		70-130	3.59	25		
Dibromomethane	11.0	1.0	µg/L	10.0		110		70-130	0.814	25		
1,2-Dichlorobenzene	9.23	1.0	µg/L	10.0		92.3		70-130	2.99	25		
1,3-Dichlorobenzene	9.14	1.0	µg/L	10.0		91.4		70-130	1.95	25		
1,4-Dichlorobenzene	9.33	1.0	µg/L	10.0		93.3		70-130	1.38	25		
trans-1,4-Dichloro-2-butene	6.47	2.0	µg/L	10.0		**64.7**	*	70-130	1.69	25	L-04, V-05	
Dichlorodifluoromethane (Freon 12)	8.73	2.0	µg/L	10.0		87.3		40-160	3.60	25		†
1,1-Dichloroethane	9.60	1.0	µg/L	10.0		96.0		70-130	5.47	25		
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104		70-130	3.48	25		
1,1-Dichloroethylene	9.21	1.0	µg/L	10.0		92.1		70-130	4.25	25		
cis-1,2-Dichloroethylene	9.61	1.0	µg/L	10.0		96.1		70-130	5.17	25		
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3		70-130	4.81	25		
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104		70-130	2.28	25		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130	2.19	25		
2,2-Dichloropropane	8.39	1.0	µg/L	10.0		83.9		40-130	5.22	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 B324458 - SW-846 5030B											
LCS Dup (B324458-BSD1)				Prepared & Analyzed: 12/01/22							
1,1-Dichloropropene	9.45	2.0	µg/L	10.0		94.5	70-130	4.65	25		
cis-1,3-Dichloropropene	9.36	0.50	µg/L	10.0		93.6	70-130	0.533	25		
trans-1,3-Dichloropropene	9.01	0.50	µg/L	10.0		90.1	70-130	5.40	25		
Diethyl Ether	8.56	2.0	µg/L	10.0		85.6	70-130	4.68	25		
Diisopropyl Ether (DIPE)	8.02	0.50	µg/L	10.0		80.2	70-130	4.51	25		
1,4-Dioxane	85.5	50	µg/L	100		85.5	40-130	5.75	50		† ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.567	25		
Hexachlorobutadiene	9.15	0.60	µg/L	10.0		91.5	70-130	4.59	25		
2-Hexanone (MBK)	88.2	10	µg/L	100		88.2	70-160	5.94	25		†
Isopropylbenzene (Cumene)	9.97	1.0	µg/L	10.0		99.7	70-130	0.201	25		
p-Isopropyltoluene (p-Cymene)	8.67	1.0	µg/L	10.0		86.7	70-130	1.37	25		
Methyl Acetate	8.75	1.0	µg/L	10.0		87.5	70-130	4.91	25		
Methyl tert-Butyl Ether (MTBE)	8.87	1.0	µg/L	10.0		88.7	70-130	5.48	25		
Methyl Cyclohexane	9.58	1.0	µg/L	10.0		95.8	70-130	2.78	25		
Methylene Chloride	8.37	5.0	µg/L	10.0		83.7	70-130	3.52	25		
4-Methyl-2-pentanone (MIBK)	88.6	10	µg/L	100		88.6	70-160	4.41	25		†
Naphthalene	6.82	2.0	µg/L	10.0		68.2	40-130	3.17	25	V-05	†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130	0.299	25		
Styrene	10.0	1.0	µg/L	10.0		100	70-130	0.499	25		
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.65	25		
1,1,2,2-Tetrachloroethane	9.63	0.50	µg/L	10.0		96.3	70-130	1.85	25		
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	2.09	25		
Tetrahydrofuran	7.19	10	µg/L	10.0		71.9	70-130	5.68	25	V-05	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	1.79	25		
1,2,3-Trichlorobenzene	7.81	5.0	µg/L	10.0		78.1	70-130	4.63	25		
1,2,4-Trichlorobenzene	8.69	1.0	µg/L	10.0		86.9	70-130	3.39	25		
1,3,5-Trichlorobenzene	8.95	1.0	µg/L	10.0		89.5	70-130	3.73	25		
1,1,1-Trichloroethane	9.46	1.0	µg/L	10.0		94.6	70-130	3.63	25		
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	2.49	25		
Trichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	1.21	25		
Trichlorofluoromethane (Freon 11)	9.76	2.0	µg/L	10.0		97.6	70-130	4.31	25		
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130	4.76	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101	70-130	5.76	25		
1,2,4-Trimethylbenzene	8.68	1.0	µg/L	10.0		86.8	70-130	1.03	25		
1,3,5-Trimethylbenzene	9.99	1.0	µg/L	10.0		99.9	70-130	0.698	25		
Vinyl Chloride	8.91	2.0	µg/L	10.0		89.1	40-160	4.07	25		†
m+p Xylene	20.9	2.0	µg/L	20.0		105	70-130	0.856	25		
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	0.487	25		
Xylenes (total)	31.2	1.0	µg/L	30.0		104	0-200	0.415			
Surrogate: 1,2-Dichloroethane-d4	*21.5*		µg/L	25.0		85.9	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.9	70-130				
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	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 B324342 - SW-846 3510C										
Blank (B324342-BLK1)				Prepared: 11/30/22 Analyzed: 12/03/22						
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0667*		mg/L	0.100		66.7	40-140			
LCS (B324342-BS1)				Prepared: 11/30/22 Analyzed: 12/03/22						
TPH (C9-C36)	0.803	0.20	mg/L	1.00		80.3	40-140			
Surrogate: 2-Fluorobiphenyl	*0.0719*		mg/L	0.100		71.9	40-140			
LCS Dup (B324342-BSD1)				Prepared: 11/30/22 Analyzed: 12/03/22						
TPH (C9-C36)	0.762	0.20	mg/L	1.00		76.2	40-140	5.25	25	
Surrogate: 2-Fluorobiphenyl	*0.0677*		mg/L	0.100		67.7	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 B324557 - SW-846 3005A Dissolved										
Blank (B324557-BLK1)				Prepared: 12/01/22 Analyzed: 12/02/22						
Lead	ND	0.50	µg/L							
LCS (B324557-BS1)				Prepared: 12/01/22 Analyzed: 12/02/22						
Lead	507	5.0	µg/L	500		101	80-120			
LCS Dup (B324557-BSD1)				Prepared: 12/01/22 Analyzed: 12/02/22						
Lead	516	5.0	µg/L	500		103	80-120	1.70	20	
Duplicate (B324557-DUP1)		**Source: 22K3516-17**		Prepared: 12/01/22 Analyzed: 12/02/22						
Lead	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B324557-MS1)		**Source: 22K3516-17**		Prepared: 12/01/22 Analyzed: 12/02/22						
Lead	509	5.0	µg/L	500	ND	102	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
L-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-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
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-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-12	Elevated reporting limit due to matrix interference.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	The sample exhibits a chromatographic pattern most similar to #2 Fuel oil.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020B in Water	
Lead	CT,NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
NC	North Carolina Div. of Water Quality	652	12/31/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
East Longmeadow, MA 01028

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

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Other:

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

Data Delivery
Format: PDF ☑ EXCEL ☐
Other: Equis format
Enhanced Data Package Required: ☐
Email To: catherine.joe@aptim.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	EPA 8260C (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead 6020	# of Containers	Preservation Code	Container Code
								H			2	2	1
								V			3	H	A
1	MW-207S-20221122	11/22/22	0745		2	GW	U	2			3		
2	MW-207D-20221122	11/22/22	0830		2	GW	U	2			3		
3	MW-202S-20221122	11/22/22	0905		2	GW	U	2			3		
4	MW-202D-20221122	11/22/22	0930		2			2			3		
5	MW-101S-20221122	11/22/22	1000		2			2			3		
6	MW-101S-20221122FD	11/22/22	1000		2			2			3		
7	MW-101D-20221122	11/22/22	1030		2			2			3		
8	MW-201D-20221122	11/22/22	1100		2			2			3		
9	MW-216S-20221122	11/22/22	1145		2			2			3		
10	MW-216D-20221122	11/22/22	1230		2			2			3		

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)

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)	APTIM	Date/Time: 0900 11/29/22
Received by: (signature)		Date/Time: 11-28-22 1205
Relinquished by: (signature)		Date/Time: 11-28-22 1430
Received by: (signature)	DNE	Date/Time: 1450 11-28-22
Relinquished by: (signature)	DNE	Date/Time: 1644 11-28-22
Received by: (signature)	22	11/28/22 1644

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

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CHAIN OF CUSTODY RECORD

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39 Spruce Street
East Longmeadow, MA 01028

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

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Other:

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

Data Delivery
Format: PDF ☑ EXCEL ☐
Other: 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	[1]Matrix Code	Conc Code	EPA 8260C (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead 6020
11	MW-217S-20221122	11/22/22	1315		2	GW	U	2		
12	MW-217D-20221122	11/22/22	1400		2	GW	U	2		
13	MW-209D-20221122	11/22/22	1445		2	GW	U	2		
14	MW-112-20221122	11/22/22	1530		2	GW	U	2		
15	CW-06-20221123	11/23/22	0730		2	GW	U		2	
16	CW-06-20221123FD	11/23/22	0730		2	GW	U		2	
17	MW-109D-20221123	11/23/22	0845		3	GW	U	2		1
18	GZA-3-20221123	11/23/22	0950		3	GW	U	2		1
19	GZA-3-20221123FD	11/23/22	0950		1	GW	U			1
20	MW-218S-20221123	11/23/22	1030		3	GW	U	3		

ANALYSIS REQUESTED

# of Containers	2	2	1
[2] Preservation Code	H	H	N
[3] Container Code	V	A	P

Dissolved Metals Samples
● Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[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)

Relinquished by: (signature)	Date/Time: 0700 11/24/22
Received by: (signature)	Date/Time: 11-28-22 1265
Relinquished by: (signature)	Date/Time: 11-28-22 1430
Received by: (signature) PAUL	Date/Time: 11-28-22 1645
Relinquished by: (signature)	Date/Time: 11-28-22 1644
Received by: (signature)	Date/Time: 11/28/22 1644

Detection Limit Requirements
MA
GT
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.

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22K3516

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Aptim Environmental & Infrastructure, Inc.
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Other:

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1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

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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	EPA 8260C (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead 6020	# of Containers
								2	2	1	# of Containers
								H	I	N	[2] Preservation Code
								V	A	P	[3] Container Code
21	MW-218D-20221123	11/23/22	1100		2	GW	U	2			
22	CW-01-20221123	11/23/22	1130		2	GW	U	2			
23	CW-02-20221123	11/23/22	1200		2	GW	U	2			
24	MW-116S-20221123	11/23/22	1250		2			2			
25	MW-116D-20221123	11/23/22	1340		2			2			

ANALYSIS REQUESTED

Dissolved Metals Samples
● Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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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)	APTIM	Date/Time: 0400 11/24/22
Received by: (signature)		Date/Time: 11-28-22 1205
Relinquished by: (signature)		Date/Time: 11-28-22 14
Received by: (signature)		Date/Time: 11-28-22 1450
Relinquished by: (signature)		Date/Time: 11-28-22 1644
Received by: (signature)		Date/Time: 11/28/22 1644

Detection Limit Requirements
MA
30 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.

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

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

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

Client: Aptim
Received By: [illegible]
Date: 11/28/22
Time: 1644

How were the samples received? In Cooler: T; No Cooler: ; On Ice: T; No Ice: ; Direct From Sample: ; Ambient: ; Melted Ice: ;
Were samples within Tempurature? Within 2-6°C: T; By Gun #: 2; Actual Temp - 2.2; By Blank #: ; Actual Temp -
Was Custody Seal In tact? NA; Were Samples Tampered with? NA
Was COC Relinquished ? T; Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T; Were samples received within holding time? T
Did COC include all pertinent Information? Client? T; Analysis? T; Sampler Name? T
Project? T; ID's? T; Collection Dates/Times? T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F; Who was notified?
Are there Rushes? F; Who was notified?
Are there Short Holds? F; Who was notified?
Samples are received within holding time? T; Is there enough Volume? T
Is there Headspace where applicable? F; MS/MSD? F
Proper Media/Containers Used? T; splitting samples require F
Were trip blanks receive F; On COC? F
Do All Samples Have the proper pH? NA; Acid; Base

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

Unused Media

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

Comments: