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

June 3, 2019

Project # 130274

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

Subject: ***Status Report: December 2018 through May 2019 Activities***
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030

Dear Mr. Martella:

Aptim Environmental & Infrastructure, Inc. (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 February and May of 2019.

Field Activities

Limited VOC Sampling Activities February and May 2019

Limited groundwater gauging and sampling was conducted on February 27, 2019 and May 2, 2019. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for the gauging of these wells are included in **Table 2**.

Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on February 27 and May 2, 2019. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities May 2019

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on May 1 and 2, 2019.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on May 1 and 2, 2019. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Field parameter and groundwater elevation results are presented in **Tables 1** and **2**, respectively.

Semi-Annual Groundwater Sampling

On May 1 and 2, 2019 groundwater samples were collected for analysis for VOCs (EPA Method 8260C) from 22 monitoring wells within and around the treatment area, including the compliance wells. One duplicate sample was collected from MW-101S (MW-101S DUP) for VOC analysis. One duplicate sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015C) from monitoring well CW-6. Samples were also collected for dissolved lead analysis (EPA Method 6020A-B) from monitoring wells MW-109D and GZA-3. One duplicate sample was also collected from GZA-3 (GZA-3 DUP) for lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Summary of Analytical Data

A summary of the analytical data associated with the groundwater sampling conducted on February 27, and May 1 and 2, 2019 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. Measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells sampled during these sampling events. During this reporting period the highest PCE concentrations were detected in wells MW-201D at 3600 µg/L and MW-218D at 1500 µg/L on May 1 and 2, 2019, respectively.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedance of the compliance standard occurred for PCE at the Adelaide Avenue well MW-112 on February 27, 2019. There was also an exceedance of the compliance standard for Vinyl Chloride at the Adelaide Avenue well MW-209D on May 2, 2019. (Note that due to sample dilution by the

laboratory, the analytical reporting limits for vinyl chloride for well MW-112 was above the compound specific compliance standard for the sampling result collected on May 2, 2019.)

Future Activities

Future limited sampling will be conducted in August 2019 and the larger semi-annual sampling event will be conducted in November 2019.

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, Inc.

Catherine Joe
Project Manager

Attachments

Table 1 – Summary Field Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Analytical Results Detected Compounds – December 2018 – May 2019
Table 4 – Groundwater Analytical Results in Compliance Wells –December 2018 – May 2019

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

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

CERTIFICATIONS

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

I, Catherine Joe, as an authorized representative of Aptim Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated June 3, 2019, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Catherine Joe
Project Manager

6/3/19
Date:

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

Certification on behalf of Textron Inc.

Gregory L. Simpson
Project Manager

6/4/19
Date:

TABLES

Table 1
Summary Field Parameters
December 2018 - May 2019

Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	pH unit	Specific Conductivity mS/cm	Temperature C°
MW-101D	05/01/2019	1.66	133.4	6.03	0.205	14.75
MW-101S	05/01/2019	0.28	67.8	5.82	0.328	14.34
MW-112	05/02/2019	4.31	224.4	6.05	1.025	13.39
MW-116D	05/02/2019	4.06	315.4	5.34	0.647	14.02
MW-116S	05/02/2019	5.42	283	5.73	0.171	13.38
MW-201D	05/01/2019	3.27	79.5	6.65	0.759	14.97
MW-202D	05/01/2019	0.2	148.1	6.41	1.627	15.27
MW-202S	05/01/2019	1.82	78.9	6.06	0.231	15.46
MW-207D	05/01/2019	2.64	190.4	6.18	0.02	15.6
MW-207S	05/01/2019	3.38	127.6	6.12	0.046	15.57
MW-209D	05/02/2019	1.12	12.8	6.78	0.78	14.34
MW-216D	05/01/2019	0.4	-2.5	6.53	0.936	14.93
MW-216S	05/01/2019	0.72	-77	6.61	1.01	14.6
MW-217D	05/01/2019	2.96	113	5.91	0.092	15.31
MW-217S	05/01/2019	3.19	28.2	6.48	2.093	14.11
MW-218D	05/02/2019	0.93	248.2	5.93	0.691	14.1
MW-218S	05/02/2019	3.5	295	5.45	0.765	13.38

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

TABLE 2
GROUNDWATER ELEVATION DATA
(December 2018 - May 2019)
Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Note
CW-01	5/1/2019	99.52	24.42	--	--	75.10	DTB = 54.27 FT
CW-02	5/1/2019	98.86	23.66	--	--	75.20	DTB = 54.70 FT
CW-06	5/1/2019	99.52	24.18	--	--	75.34	DTB = 33.37 FT
GZA-3	5/2/2019	NA	17.20	--	--	NA	DTB = 21.98 FT
MW-101D	5/1/2019	98.91	23.80	--	--	75.11	DTB = 46.23 FT
MW-101S	5/1/2019	98.90	23.92	--	--	74.98	DTB = 28.15 FT
MW-109D	5/2/2019	NA	18.38	--	--	NA	DTB = 74.70 FT
MW-112	2/27/2019	100.63	25.88	--	--	74.75	DTB = 35.25 FT
	5/2/2019	100.63	25.60	--	--	75.03	DTB = 34.77 FT
MW-116D	2/27/2019	98.92	24.00	--	--	74.92	DTB = 44.48 FT
	5/2/2019	98.92	23.82	--	--	75.10	DTB = 44.25 FT
MW-116S	2/27/2019	99.40	24.40	--	--	75.00	DTB = 28.65 FT
	5/2/2019	99.40	24.08	--	--	75.32	DTB = 29.01 FT
MW-201D	5/1/2019	98.80	23.70	--	--	75.10	DTB = 47.40 FT
MW-202D	5/1/2019	98.17	22.89	--	--	75.28	DTB = 46.75 FT
MW-202S	5/1/2019	98.06	23.05	--	--	75.01	DTB = 37.93 FT
MW-207D	5/1/2019	98.18	23.13	--	--	75.05	DTB = 50.65 FT
MW-207S	5/1/2019	98.28	23.19	--	--	75.09	DTB = 37.36 FT
MW-209D	5/2/2019	99.90	25.28	--	--	74.62	DTB = 62.34 FT
MW-216D	5/1/2019	98.69	24.77	--	--	73.92	DTB = 39.61 FT
MW-216S	5/1/2019	99.58	24.56	--	--	75.02	DTB = 29.67 FT
MW-217D	5/1/2019	98.65	24.04	--	--	74.61	DTB = 46.63 FT
MW-217S	5/1/2019	98.71	24.08	--	--	74.63	DTB = 26.28 FT
MW-218D	5/2/2019	99.67	24.66	--	--	75.01	DTB = 46.72 FT
MW-218S	5/2/2019	99.61	24.53	--	--	75.08	DTB = 29.53 FT
MW-220S	5/1/2019	99.41	20.90	--	--	78.51	DTB = 31.70 FT
MW-221S	5/1/2019	98.92	20.95	--	<0.01	77.97	

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

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2018 - May 2019

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	CW-01	CW-02	CW-06		GZA-3		MW-101D	MW-101S		MW-109D
	Sample	5/1/2019	5/1/2019	5/1/2019	5/1/2019	5/2/2019	5/2/2019	5/1/2019	5/1/2019	5/1/2019	5/2/2019
	Sample	N	N	N	FD	N	FD	N	N	FD	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOLATILES		---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethene	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	µg/L	< 5	< 1	---	---	1.1	---	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	250	< 1	---	---	1.2	---	< 1	5.8	5.7	< 1
Ethylbenzene	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
Methyltert-butylether	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
Naphthalene	µg/L	< 10	< 2	---	---	< 2	---	< 2	< 2	< 2	< 2
o-Xylene	µg/L	< 5	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	< 5	< 1	---	---	< 1	---	8.6	83	90	< 1
trans-1,2-Dichloroethene	µg/L	20	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1
Trichloroethene	µg/L	410	< 1	---	---	< 1	---	< 1	22	22	1.4
Vinyl chloride	µg/L	< 10	< 2	---	---	10	---	< 2	< 2	< 2	< 2
TPH		---	---	---	---	---	---	---	---	---	---
TPH	mg/L	---	---	5.5	6.5	---	---	---	---	---	---
METALS, DISSOLVED		---	---	---	---	---	---	---	---	---	---
Lead	µg/L	---	---	---	---	8.3	9.1	---	---	---	< 0.5

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

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2018 - May 2019

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	MW-112		MW-116D		MW-116S		MW-201D	MW-202D	MW-202S	MW-207D	MW-207S	MW-209D
	Sample	2/27/2019	5/2/2019	2/27/2019	5/2/2019	2/27/2019	5/2/2019	5/1/2019	5/1/2019	5/1/2019	5/1/2019	5/1/2019	5/2/2019
	Sample	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
VOLATILES		---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	3
1,2,4-Trimethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	110
Ethylbenzene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	< 1
Methyltert-butylether	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	2.3
Naphthalene	µg/L	< 5	< 4	< 5	< 2	< 5	< 2	< 100	< 2	< 2	< 2	< 2	< 2
o-Xylene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	µg/L	200	110	< 1	< 1	< 1	< 1	3600	16	5	< 1	< 1	28
trans-1,2-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 1	< 1	< 50	< 1	< 1	< 1	< 1	13
Trichloroethene	µg/L	4.7	3.8	< 1	< 1	< 1	< 1	280	< 1	< 1	< 1	< 1	7.3
Vinyl chloride	µg/L	< 2	< 4	< 2	< 2	< 2	< 2	< 100	< 2	< 2	< 2	< 2	26
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
J = Result is an estimated value
N = Primary sample
FD = Field Duplicate

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2018 - May 2019

Former Gorham Manufacturing Facility
Providence, Rhode Island

	Location	MW-216D	MW-216S	MW-217D	MW-217S	MW-218D	MW-218S
	Sample	5/1/2019	5/1/2019	5/1/2019	5/1/2019	5/2/2019	5/2/2019
	Sample	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result
VOLATILES		---	---	---	---	---	---
1,1-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 25	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	9	< 1	< 1	< 25	< 1
1,2-Dichlorobenzene	µg/L	< 1	< 2	< 1	< 1	< 25	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	3.5	< 1	< 1	< 25	< 1
cis-1,2-Dichloroethene	µg/L	< 1	24	< 1	< 1	< 25	< 1
Ethylbenzene	µg/L	< 1	2.6	< 1	< 1	< 25	< 1
Methyltert-butylether	µg/L	< 1	< 2	< 1	< 1	< 25	< 1
Naphthalene	µg/L	< 2	18	< 2	< 2	< 50	< 2
o-Xylene	µg/L	< 1	8.7	< 1	< 1	< 25	< 1
Tetrachloroethene	µg/L	11	< 2	5.5	11	1500	21
trans-1,2-Dichloroethene	µg/L	< 1	< 2	< 1	< 1	< 25	< 1
Trichloroethene	µg/L	1.6	< 2	1.9	< 1	< 25	< 1
Vinyl chloride	µg/L	< 2	< 4	< 2	< 2	< 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
J = Result is an estimated value
N = Primary sample
FD = Field Duplicate

TABLE 4
Groundwater Analytical Results
December 2018 - May 2019

Former Gorham Manufacturing Facility
Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	**GZA-3**	**GZA-3**	**MW-109D**	**Compliance**
Date Collected	**5/2/2019**	**5/2/2019**	**5/2/2019**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate 1**	**Primary**	
Metals (mg/L)				
Lead	0.0083	0.0091	<0.0005	0.03
VOCs (µg/L)				
1,1-Dichloroethane	<1.0	---	<1.0	50,000
1,1-Dichloroethene	<1.0	---	<1.0	50,000
cis-1,2-Dichloroethene	1.2	---	<1.0	50,000
Methyl tert-butyl ether	<1.0	---	<1.0	50,000
Tetrachloroethene	<1.0	---	<1.0	5,000
Trichloroethene	<1.0	---	1.4	20,000
Vinyl chloride	10	---	<2.0	1,200

TPH Remediation Area Well			
Sample ID	**CW-06**	**CW-06**	**Compliance**
Date Collected	**5/1/2019**	**5/1/2019**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate**	
TPH (mg/L)			
TPH	5.5	6.5	20

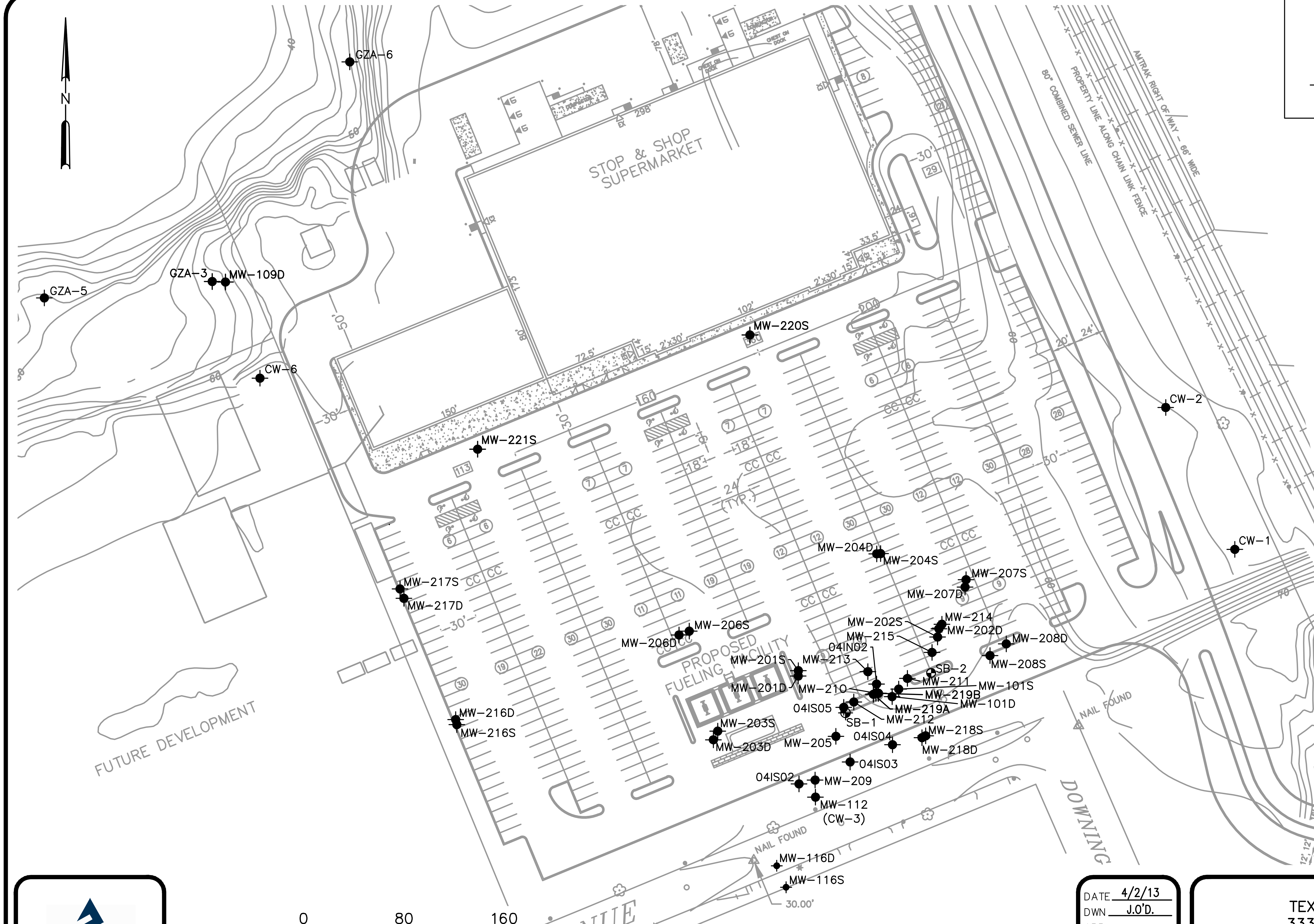
Sewer Interceptor Area Wells			
Sample ID	**CW-01**	**CW-02**	**Compliance**
Date Collected	**5/1/2019**	**5/1/2019**	**Standard[2]**
CONSTITUENT	**Primary**	**Primary**	
VOCs (µg/L)			
1,1-Dichloroethane	< 5	< 1	120,000
1,1-Dichloroethene	< 5	< 1	23,000
cis-1,2-Dichloroethene	250	< 1	69,000
trans-1,2-Dichloroethene	20	< 1	79,000
Tetrachloroethene	< 5	< 1	NS
Trichloroethene	410	< 1	87,000

Adelaide Avenue Wells					
Sample ID	**MW-112**	**MW-112**	**MW-209D**	**MW-218S**	**Compliance**
Date Collected	**2/27/2019**	**5/2/2019**	**5/2/2019**	**5/2/2019**	**Standard[3]**
CONSTITUENT	**Primary**	**Primary**	**Primary**	**Primary**	
VOCs (µg/L)					
1,1-Dichloroethane	<1.0	<2.0	<1.0	<1.0	2,400
1,1-Dichloroethene	<1.0	<2.0	3	<1.0	7
cis-1,2-Dichloroethene	<1.0	<2.0	110	<1.0	1,900
Methyl tert-butyl ether	<1.0	<2.0	2.3	<1.0	5,000
Tetrachloroethene	**200**	110	28	21	150
Trichloroethene	4.7	3.8	7.3	<1.0	540
Vinyl chloride	<2.0	<4.0	**26**	<2.0	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).
NA = Indicates that the analysis was not performed.
< = 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
J = Estimated result.

FIGURES



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-214
MW-202S
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
DOWNING
80" COMBINED SEWER LINE
PROPERTY LINE ALONG CHAIN LINK FENCE
AMTRAK RIGHT OF WAY - 66' WIDE
N
0
80
160
SCALE IN FEET

LEGEND

MW-101S MONITORING WELL

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 13, 2019

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

Project Location: 333 Adelaide Ave., Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 19C0121

Enclosed are results of analyses for samples received by the laboratory on March 5, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
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

REPORT DATE: 3/13/2019

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19C0121

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

PROJECT LOCATION: 333 Adelaide Ave., Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	19C0121-01	Ground Water		SW-846 8260C	
MW-116D	19C0121-02	Ground Water		SW-846 8260C	
MW-116S	19C0121-03	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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:

Methyl Acetate

19C0121-01[MW-112], 19C0121-02[MW-116D], 19C0121-03[MW-116S], B225262-BLK1, B225262-BS1, B225262-BSD1, B225395-BLK1, B225395-BS1, B225395-BSD1, S033303-CCV1, S033372-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Methyl Acetate

19C0121-01[MW-112], 19C0121-02[MW-116D], 19C0121-03[MW-116S], B225262-BLK1, B225262-BS1, B225262-BSD1, B225395-BLK1, B225395-BS1, B225395-BSD1, S033303-CCV1, S033372-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:

2,2-Dichloropropane

B225262-BS1, B225262-BSD1, B225395-BS1, B225395-BSD1, S033303-CCV1, S033372-CCV1

V-34

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

Analyte & Samples(s) Qualified:

Methyl Acetate

B225262-BS1, B225262-BSD1, B225395-BS1, B225395-BSD1, S033303-CCV1, S033372-CCV1

V-36

Initial calibration verification (ICV) 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:

Carbon Disulfide

B225262-BS1, B225262-BSD1, B225395-BS1, B225395-BSD1, S033303-CCV1, S033372-CCV1

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-112 Sampled: 2/27/2019 07:00

Sample ID: 19C0121-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD

con-test® ANALYTICAL LABORATORY
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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-112 Sampled: 2/27/2019 07:00

Sample ID: 19C0121-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Methyl Acetate	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Tetrachloroethylene	200	20	µg/L	20		SW-846 8260C	3/11/19	3/11/19 13:03	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Trichloroethylene	4.7	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 16:19	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		3/8/19 16:19
1,2-Dichloroethane-d4	101	70-130		3/11/19 13:03
Toluene-d8	103	70-130		3/11/19 13:03
Toluene-d8	100	70-130		3/8/19 16:19
4-Bromofluorobenzene	100	70-130		3/8/19 16:19
4-Bromofluorobenzene	103	70-130		3/11/19 13:03

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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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-116D Sampled: 2/27/2019 08:00

Sample ID: 19C0121-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD

con-test® ANALYTICAL LABORATORY
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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-116D Sampled: 2/27/2019 08:00

Sample ID: 19C0121-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Methyl Acetate	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.0	70-130		3/8/19 15:18
Toluene-d8	101	70-130		3/8/19 15:18
4-Bromofluorobenzene	100	70-130		3/8/19 15:18

con-test® ANALYTICAL LABORATORY
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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-116S Sampled: 2/27/2019 09:00

Sample ID: 19C0121-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD

con-test® ANALYTICAL LABORATORY
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: 19C0121

Date Received: 3/5/2019

Field Sample #: MW-116S Sampled: 2/27/2019 09:00

Sample ID: 19C0121-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Methyl Acetate	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/8/19	3/8/19 15:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		3/8/19 15:49
Toluene-d8	102	70-130		3/8/19 15:49
4-Bromofluorobenzene	102	70-130		3/8/19 15:49

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0121-01 [MW-112]	B225262	5	5.00	03/08/19
19C0121-02 [MW-116D]	B225262	5	5.00	03/08/19
19C0121-03 [MW-116S]	B225262	5	5.00	03/08/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19C0121-01RE1 [MW-112]	B225395	0.25	5.00	03/11/19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B225262 - SW-846 5030B										
Blank (B225262-BLK1)				Prepared & Analyzed: 03/08/19						
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	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							L-04, V-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B225262 - SW-846 5030B											
Blank (B225262-BLK1)				Prepared & Analyzed: 03/08/19							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.5	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.7	70-130				
LCS (B225262-BS1)				Prepared & Analyzed: 03/08/19							
Acetone	98.0	50	µg/L	100		98.0	70-160				†
Acrylonitrile	8.88	5.0	µg/L	10.0		88.8	70-130				
tert-Amyl Methyl Ether (TAME)	9.41	0.50	µg/L	10.0		94.1	70-130				
Benzene	9.28	1.0	µg/L	10.0		92.8	70-130				
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130				
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130				
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130				
Bromoform	9.60	1.0	µg/L	10.0		96.0	70-130				
Bromomethane	6.30	2.0	µg/L	10.0		63.0	40-160				†
2-Butanone (MEK)	85.6	20	µg/L	100		85.6	40-160				†
tert-Butyl Alcohol (TBA)	89.2	20	µg/L	100		89.2	40-160				†
n-Butylbenzene	9.29	1.0	µg/L	10.0		92.9	70-130				
sec-Butylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130				
tert-Butylbenzene	9.14	1.0	µg/L	10.0		91.4	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.02	0.50	µg/L	10.0		90.2	70-130				
Carbon Disulfide	9.21	4.0	µg/L	10.0		92.1	70-130			V-36	
Carbon Tetrachloride	9.90	5.0	µg/L	10.0		99.0	70-130				
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130				
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130				
Chloroethane	10.0	2.0	µg/L	10.0		100	70-130				
Chloroform	9.74	2.0	µg/L	10.0		97.4	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 B225262 - SW-846 5030B												
LCS (B225262-BS1)				Prepared & Analyzed: 03/08/19								
Chloromethane	6.39	2.0	µg/L	10.0		63.9		40-160				†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130				
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.30	5.0	µg/L	10.0		93.0		70-130				
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100		70-130				
Dibromomethane	10.3	1.0	µg/L	10.0		103		70-130				
1,2-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4		70-130				
1,3-Dichlorobenzene	9.85	1.0	µg/L	10.0		98.5		70-130				
1,4-Dichlorobenzene	9.54	1.0	µg/L	10.0		95.4		70-130				
trans-1,4-Dichloro-2-butene	10.7	2.0	µg/L	10.0		107		70-130				
Dichlorodifluoromethane (Freon 12)	7.05	2.0	µg/L	10.0		70.5		40-160				†
1,1-Dichloroethane	9.58	1.0	µg/L	10.0		95.8		70-130				
1,2-Dichloroethane	9.84	1.0	µg/L	10.0		98.4		70-130				
1,1-Dichloroethylene	9.94	1.0	µg/L	10.0		99.4		70-130				
cis-1,2-Dichloroethylene	9.81	1.0	µg/L	10.0		98.1		70-130				
trans-1,2-Dichloroethylene	9.85	1.0	µg/L	10.0		98.5		70-130				
1,2-Dichloropropane	9.29	1.0	µg/L	10.0		92.9		70-130				
1,3-Dichloropropane	9.77	0.50	µg/L	10.0		97.7		70-130				
2,2-Dichloropropane	11.4	1.0	µg/L	10.0		114		40-130			V-20	†
1,1-Dichloropropene	9.80	2.0	µg/L	10.0		98.0		70-130				
cis-1,3-Dichloropropene	9.91	0.50	µg/L	10.0		99.1		70-130				
trans-1,3-Dichloropropene	9.94	0.50	µg/L	10.0		99.4		70-130				
Diethyl Ether	9.41	2.0	µg/L	10.0		94.1		70-130				
Diisopropyl Ether (DIPE)	8.40	0.50	µg/L	10.0		84.0		70-130				
1,4-Dioxane	84.3	50	µg/L	100		84.3		40-130				†
Ethylbenzene	9.70	1.0	µg/L	10.0		97.0		70-130				
Hexachlorobutadiene	9.39	0.60	µg/L	10.0		93.9		70-130				
2-Hexanone (MBK)	91.5	10	µg/L	100		91.5		70-160				†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103		70-130				
p-Isopropyltoluene (p-Cymene)	9.26	1.0	µg/L	10.0		92.6		70-130				
Methyl Acetate	5.31	1.0	µg/L	10.0		**53.1**	*	70-130			L-04, V-05, V-34	
Methyl tert-Butyl Ether (MTBE)	9.72	1.0	µg/L	10.0		97.2		70-130				
Methyl Cyclohexane	9.67	1.0	µg/L	10.0		96.7		70-130				
Methylene Chloride	8.32	5.0	µg/L	10.0		83.2		70-130				
4-Methyl-2-pentanone (MIBK)	86.0	10	µg/L	100		86.0		70-160				†
Naphthalene	10.9	2.0	µg/L	10.0		109		40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
Styrene	10.3	1.0	µg/L	10.0		103		70-130				
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100		70-130				
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111		70-130				
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107		70-130				
Tetrahydrofuran	8.37	10	µg/L	10.0		83.7		70-130				
Toluene	9.86	1.0	µg/L	10.0		98.6		70-130				
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130				
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
1,3,5-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
1,1,1-Trichloroethane	9.96	1.0	µg/L	10.0		99.6		70-130				
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130				
Trichloroethylene	9.58	1.0	µg/L	10.0		95.8		70-130				
Trichlorofluoromethane (Freon 11)	8.77	2.0	µg/L	10.0		87.7		70-130				
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B225262 - SW-846 5030B											
LCS (B225262-BS1)				Prepared & Analyzed: 03/08/19							
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	9.11	1.0	µg/L	10.0		91.1	70-130				
1,3,5-Trimethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130				
Vinyl Chloride	8.10	2.0	µg/L	10.0		81.0	40-160				†
m+p Xylene	20.1	2.0	µg/L	20.0		100	70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.2	70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	70-130				
LCS Dup (B225262-BSD1)				Prepared & Analyzed: 03/08/19							
Acetone	86.3	50	µg/L	100		86.3	70-160	12.7	25		†
Acrylonitrile	8.15	5.0	µg/L	10.0		81.5	70-130	8.57	25		
tert-Amyl Methyl Ether (TAME)	9.33	0.50	µg/L	10.0		93.3	70-130	0.854	25		
Benzene	9.28	1.0	µg/L	10.0		92.8	70-130	0.00	25		
Bromobenzene	9.92	1.0	µg/L	10.0		99.2	70-130	1.50	25		
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130	3.45	25		
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	1.46	25		
Bromoform	9.10	1.0	µg/L	10.0		91.0	70-130	5.35	25		
Bromomethane	7.41	2.0	µg/L	10.0		74.1	40-160	16.2	25		†
2-Butanone (MEK)	77.2	20	µg/L	100		77.2	40-160	10.3	25		†
tert-Butyl Alcohol (TBA)	75.7	20	µg/L	100		75.7	40-160	16.4	25		†
n-Butylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130	1.19	25		
sec-Butylbenzene	9.15	1.0	µg/L	10.0		91.5	70-130	3.01	25		
tert-Butylbenzene	8.83	1.0	µg/L	10.0		88.3	70-130	3.45	25		
tert-Butyl Ethyl Ether (TBEE)	8.64	0.50	µg/L	10.0		86.4	70-130	4.30	25		
Carbon Disulfide	8.94	4.0	µg/L	10.0		89.4	70-130	2.98	25	V-36	
Carbon Tetrachloride	9.73	5.0	µg/L	10.0		97.3	70-130	1.73	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.96	25		
Chlorodibromomethane	9.61	0.50	µg/L	10.0		96.1	70-130	6.05	25		
Chloroethane	9.72	2.0	µg/L	10.0		97.2	70-130	3.14	25		
Chloroform	9.53	2.0	µg/L	10.0		95.3	70-130	2.18	25		
Chloromethane	6.28	2.0	µg/L	10.0		62.8	40-160	1.74	25		†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	0.294	25		
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	1.08	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.38	5.0	µg/L	10.0		83.8	70-130	10.4	25		
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	0.0996	25		
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130	1.47	25		
1,2-Dichlorobenzene	9.54	1.0	µg/L	10.0		95.4	70-130	3.10	25		
1,3-Dichlorobenzene	9.57	1.0	µg/L	10.0		95.7	70-130	2.88	25		
1,4-Dichlorobenzene	9.38	1.0	µg/L	10.0		93.8	70-130	1.69	25		
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130	2.07	25		
Dichlorodifluoromethane (Freon 12)	6.73	2.0	µg/L	10.0		67.3	40-160	4.64	25		†
1,1-Dichloroethane	9.52	1.0	µg/L	10.0		95.2	70-130	0.628	25		
1,2-Dichloroethane	9.66	1.0	µg/L	10.0		96.6	70-130	1.85	25		
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130	0.101	25		
cis-1,2-Dichloroethylene	9.58	1.0	µg/L	10.0		95.8	70-130	2.37	25		
trans-1,2-Dichloroethylene	9.92	1.0	µg/L	10.0		99.2	70-130	0.708	25		
1,2-Dichloropropane	9.58	1.0	µg/L	10.0		95.8	70-130	3.07	25		
1,3-Dichloropropane	9.45	0.50	µg/L	10.0		94.5	70-130	3.33	25		
2,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	40-130	3.92	25	V-20	†
1,1-Dichloropropene	9.51	2.0	µg/L	10.0		95.1	70-130	3.00	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 B225262 - SW-846 5030B												
LCS Dup (B225262-BSD1)				Prepared & Analyzed: 03/08/19								
cis-1,3-Dichloropropene	9.79	0.50	µg/L	10.0		97.9		70-130	1.22	25		
trans-1,3-Dichloropropene	9.83	0.50	µg/L	10.0		98.3		70-130	1.11	25		
Diethyl Ether	9.15	2.0	µg/L	10.0		91.5		70-130	2.80	25		
Diisopropyl Ether (DIPE)	8.35	0.50	µg/L	10.0		83.5		70-130	0.597	25		
1,4-Dioxane	84.0	50	µg/L	100		84.0		40-130	0.285	50		† ‡
Ethylbenzene	9.60	1.0	µg/L	10.0		96.0		70-130	1.04	25		
Hexachlorobutadiene	9.39	0.60	µg/L	10.0		93.9		70-130	0.00	25		
2-Hexanone (MBK)	80.3	10	µg/L	100		80.3		70-160	13.1	25		†
Isopropylbenzene (Cumene)	9.93	1.0	µg/L	10.0		99.3		70-130	3.27	25		
p-Isopropyltoluene (p-Cymene)	9.13	1.0	µg/L	10.0		91.3		70-130	1.41	25		
Methyl Acetate	4.86	1.0	µg/L	10.0		**48.6**	*	70-130	8.85	25	L-04, V-05, V-34	
Methyl tert-Butyl Ether (MTBE)	9.32	1.0	µg/L	10.0		93.2		70-130	4.20	25		
Methyl Cyclohexane	9.40	1.0	µg/L	10.0		94.0		70-130	2.83	25		
Methylene Chloride	8.36	5.0	µg/L	10.0		83.6		70-130	0.480	25		
4-Methyl-2-pentanone (MIBK)	78.9	10	µg/L	100		78.9		70-160	8.61	25		†
Naphthalene	9.99	2.0	µg/L	10.0		99.9		40-130	8.35	25		†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100		70-130	2.75	25		
Styrene	9.87	1.0	µg/L	10.0		98.7		70-130	4.17	25		
1,1,1,2-Tetrachloroethane	9.83	1.0	µg/L	10.0		98.3		70-130	1.71	25		
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101		70-130	10.2	25		
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105		70-130	1.60	25		
Tetrahydrofuran	7.48	10	µg/L	10.0		74.8		70-130	11.2	25		
Toluene	9.69	1.0	µg/L	10.0		96.9		70-130	1.74	25		
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104		70-130	2.46	25		
1,2,4-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	3.40	25		
1,3,5-Trichlorobenzene	9.72	1.0	µg/L	10.0		97.2		70-130	4.13	25		
1,1,1-Trichloroethane	9.75	1.0	µg/L	10.0		97.5		70-130	2.13	25		
1,1,2-Trichloroethane	9.99	1.0	µg/L	10.0		99.9		70-130	3.15	25		
Trichloroethylene	9.41	1.0	µg/L	10.0		94.1		70-130	1.79	25		
Trichlorofluoromethane (Freon 11)	8.63	2.0	µg/L	10.0		86.3		70-130	1.61	25		
1,2,3-Trichloropropane	9.38	2.0	µg/L	10.0		93.8		70-130	7.00	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.24	1.0	µg/L	10.0		92.4		70-130	3.19	25		
1,2,4-Trimethylbenzene	8.72	1.0	µg/L	10.0		87.2		70-130	4.37	25		
1,3,5-Trimethylbenzene	9.80	1.0	µg/L	10.0		98.0		70-130	1.82	25		
Vinyl Chloride	7.69	2.0	µg/L	10.0		76.9		40-160	5.19	25		†
m+p Xylene	19.7	2.0	µg/L	20.0		98.6		70-130	1.76	25		
o-Xylene	9.99	1.0	µg/L	10.0		99.9		70-130	0.798	25		
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.3		70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		101		70-130				
Batch B225395 - SW-846 5030B												
Blank (B225395-BLK1)				Prepared & Analyzed: 03/11/19								
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									

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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 B225395 - SW-846 5030B										
Blank (B225395-BLK1)				Prepared & Analyzed: 03/11/19						
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	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							L-04, V-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							

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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 B225395 - SW-846 5030B										
Blank (B225395-BLK1)				Prepared & Analyzed: 03/11/19						
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							
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
LCS (B225395-BS1)				Prepared & Analyzed: 03/11/19						
Acetone	104	50	µg/L	100		104	70-160			†
Acrylonitrile	9.09	5.0	µg/L	10.0		90.9	70-130			
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130			
Benzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromochloromethane	11.9	1.0	µg/L	10.0		119	70-130			
Bromodichloromethane	11.1	0.50	µg/L	10.0		111	70-130			
Bromoform	10.1	1.0	µg/L	10.0		101	70-130			
Bromomethane	7.54	2.0	µg/L	10.0		75.4	40-160			†
2-Butanone (MEK)	90.6	20	µg/L	100		90.6	40-160			†
tert-Butyl Alcohol (TBA)	94.9	20	µg/L	100		94.9	40-160			†
n-Butylbenzene	9.48	1.0	µg/L	10.0		94.8	70-130			
sec-Butylbenzene	9.56	1.0	µg/L	10.0		95.6	70-130			
tert-Butylbenzene	9.24	1.0	µg/L	10.0		92.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.88	0.50	µg/L	10.0		98.8	70-130			
Carbon Disulfide	10.2	4.0	µg/L	10.0		102	70-130			V-36
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130			
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130			
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130			
Chloroform	10.7	2.0	µg/L	10.0		107	70-130			
Chloromethane	7.95	2.0	µg/L	10.0		79.5	40-160			†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.51	5.0	µg/L	10.0		95.1	70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130			
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichlorobenzene	9.82	1.0	µg/L	10.0		98.2	70-130			
1,3-Dichlorobenzene	9.92	1.0	µg/L	10.0		99.2	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 B225395 - SW-846 5030B												
LCS (B225395-BS1)				Prepared & Analyzed: 03/11/19								
1,4-Dichlorobenzene	9.67	1.0	µg/L	10.0		96.7		70-130				
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109		70-130				
Dichlorodifluoromethane (Freon 12)	9.78	2.0	µg/L	10.0		97.8		40-160				†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130				
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		70-130				
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105		70-130				
2,2-Dichloropropane	12.7	1.0	µg/L	10.0		127		40-130			V-20	†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106		70-130				
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130				
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130				
Diethyl Ether	10.7	2.0	µg/L	10.0		107		70-130				
Diisopropyl Ether (DIPE)	9.13	0.50	µg/L	10.0		91.3		70-130				
1,4-Dioxane	88.1	50	µg/L	100		88.1		40-130				†
Ethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Hexachlorobutadiene	9.87	0.60	µg/L	10.0		98.7		70-130				
2-Hexanone (MBK)	94.0	10	µg/L	100		94.0		70-160				†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104		70-130				
p-Isopropyltoluene (p-Cymene)	9.36	1.0	µg/L	10.0		93.6		70-130				
Methyl Acetate	5.76	1.0	µg/L	10.0		**57.6**	*	70-130			L-04, V-05, V-34	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107		70-130				
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104		70-130				
Methylene Chloride	9.19	5.0	µg/L	10.0		91.9		70-130				
4-Methyl-2-pentanone (MIBK)	89.9	10	µg/L	100		89.9		70-160				†
Naphthalene	10.8	2.0	µg/L	10.0		108		40-130				†
n-Propylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
Styrene	10.4	1.0	µg/L	10.0		104		70-130				
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130				
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109		70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130				
Tetrahydrofuran	8.75	10	µg/L	10.0		87.5		70-130				
Toluene	10.5	1.0	µg/L	10.0		105		70-130				
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108		70-130				
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,3,5-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130				
Trichloroethylene	10.2	1.0	µg/L	10.0		102		70-130				
Trichlorofluoromethane (Freon 11)	9.77	2.0	µg/L	10.0		97.7		70-130				
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104		70-130				
1,2,4-Trimethylbenzene	9.16	1.0	µg/L	10.0		91.6		70-130				
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
Vinyl Chloride	9.34	2.0	µg/L	10.0		93.4		40-160				†
m+p Xylene	20.5	2.0	µg/L	20.0		103		70-130				
o-Xylene	10.3	1.0	µg/L	10.0		103		70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B225395 - SW-846 5030B											
LCS (B225395-BS1)				Prepared & Analyzed: 03/11/19							
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130				
LCS Dup (B225395-BSD1)				Prepared & Analyzed: 03/11/19							
Acetone	96.3	50	µg/L	100		96.3	70-160	8.00	25		†
Acrylonitrile	8.98	5.0	µg/L	10.0		89.8	70-130	1.22	25		
tert-Amyl Methyl Ether (TAME)	9.89	0.50	µg/L	10.0		98.9	70-130	5.31	25		
Benzene	9.53	1.0	µg/L	10.0		95.3	70-130	6.30	25		
Bromobenzene	9.74	1.0	µg/L	10.0		97.4	70-130	6.55	25		
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130	13.4	25		
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130	9.01	25		
Bromoform	9.55	1.0	µg/L	10.0		95.5	70-130	5.70	25		
Bromomethane	8.07	2.0	µg/L	10.0		80.7	40-160	6.79	25		†
2-Butanone (MEK)	84.0	20	µg/L	100		84.0	40-160	7.49	25		†
tert-Butyl Alcohol (TBA)	87.9	20	µg/L	100		87.9	40-160	7.72	25		†
n-Butylbenzene	9.05	1.0	µg/L	10.0		90.5	70-130	4.64	25		
sec-Butylbenzene	9.14	1.0	µg/L	10.0		91.4	70-130	4.49	25		
tert-Butylbenzene	8.74	1.0	µg/L	10.0		87.4	70-130	5.56	25		
tert-Butyl Ethyl Ether (TBEE)	9.16	0.50	µg/L	10.0		91.6	70-130	7.56	25		
Carbon Disulfide	9.86	4.0	µg/L	10.0		98.6	70-130	3.78	25	V-36	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130	4.96	25		
Chlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	3.62	25		
Chlorodibromomethane	9.96	0.50	µg/L	10.0		99.6	70-130	8.83	25		
Chloroethane	9.80	2.0	µg/L	10.0		98.0	70-130	7.28	25		
Chloroform	9.67	2.0	µg/L	10.0		96.7	70-130	9.93	25		
Chloromethane	7.39	2.0	µg/L	10.0		73.9	40-160	7.30	25		†
2-Chlorotoluene	9.96	1.0	µg/L	10.0		99.6	70-130	4.51	25		
4-Chlorotoluene	9.93	1.0	µg/L	10.0		99.3	70-130	6.90	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.82	5.0	µg/L	10.0		88.2	70-130	7.53	25		
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	9.32	25		
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	7.74	25		
1,2-Dichlorobenzene	9.42	1.0	µg/L	10.0		94.2	70-130	4.16	25		
1,3-Dichlorobenzene	9.17	1.0	µg/L	10.0		91.7	70-130	7.86	25		
1,4-Dichlorobenzene	9.17	1.0	µg/L	10.0		91.7	70-130	5.31	25		
trans-1,4-Dichloro-2-butene	10.4	2.0	µg/L	10.0		104	70-130	5.16	25		
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.0		103	40-160	5.08	25		†
1,1-Dichloroethane	9.82	1.0	µg/L	10.0		98.2	70-130	7.64	25		
1,2-Dichloroethane	9.96	1.0	µg/L	10.0		99.6	70-130	7.63	25		
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.51	25		
cis-1,2-Dichloroethylene	9.84	1.0	µg/L	10.0		98.4	70-130	8.84	25		
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	6.20	25		
1,2-Dichloropropane	9.47	1.0	µg/L	10.0		94.7	70-130	7.91	25		
1,3-Dichloropropane	9.78	0.50	µg/L	10.0		97.8	70-130	6.91	25		
2,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	40-130	9.00	25	V-20	†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130	3.66	25		
cis-1,3-Dichloropropene	9.85	0.50	µg/L	10.0		98.5	70-130	9.20	25		
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	7.02	25		
Diethyl Ether	9.32	2.0	µg/L	10.0		93.2	70-130	13.4	25		
Diisopropyl Ether (DIPE)	8.64	0.50	µg/L	10.0		86.4	70-130	5.51	25		
1,4-Dioxane	80.2	50	µg/L	100		80.2	40-130	9.42	50		† ‡
Ethylbenzene	9.50	1.0	µg/L	10.0		95.0	70-130	5.83	25		
Hexachlorobutadiene	9.10	0.60	µg/L	10.0		91.0	70-130	8.12	25		
2-Hexanone (MBK)	87.2	10	µg/L	100		87.2	70-160	7.51	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 B225395 - SW-846 5030B												
LCS Dup (B225395-BSD1)				Prepared & Analyzed: 03/11/19								
Isopropylbenzene (Cumene)	9.98	1.0	µg/L	10.0		99.8		70-130	3.64	25		
p-Isopropyltoluene (p-Cymene)	8.87	1.0	µg/L	10.0		88.7		70-130	5.38	25		
Methyl Acetate	5.20	1.0	µg/L	10.0		**52.0**	*	70-130	10.2	25	L-04, V-05, V-34	
Methyl tert-Butyl Ether (MTBE)	9.88	1.0	µg/L	10.0		98.8		70-130	7.78	25		
Methyl Cyclohexane	11.2	1.0	µg/L	10.0		112		70-130	8.06	25		
Methylene Chloride	8.58	5.0	µg/L	10.0		85.8		70-130	6.87	25		
4-Methyl-2-pentanone (MIBK)	84.6	10	µg/L	100		84.6		70-160	6.09	25		†
Naphthalene	9.92	2.0	µg/L	10.0		99.2		40-130	8.22	25		†
n-Propylbenzene	9.93	1.0	µg/L	10.0		99.3		70-130	5.77	25		
Styrene	9.77	1.0	µg/L	10.0		97.7		70-130	6.25	25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130	5.50	25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105		70-130	4.10	25		
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130	8.59	25		
Tetrahydrofuran	7.90	10	µg/L	10.0		79.0		70-130	10.2	25		
Toluene	9.73	1.0	µg/L	10.0		97.3		70-130	7.61	25		
1,2,3-Trichlorobenzene	10.1	5.0	µg/L	10.0		101		70-130	6.51	25		
1,2,4-Trichlorobenzene	9.90	1.0	µg/L	10.0		99.0		70-130	2.99	25		
1,3,5-Trichlorobenzene	9.41	1.0	µg/L	10.0		94.1		70-130	7.37	25		
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130	7.49	25		
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130	7.98	25		
Trichloroethylene	9.55	1.0	µg/L	10.0		95.5		70-130	6.48	25		
Trichlorofluoromethane (Freon 11)	9.79	2.0	µg/L	10.0		97.9		70-130	0.204	25		
1,2,3-Trichloropropane	9.52	2.0	µg/L	10.0		95.2		70-130	5.81	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.0		109		70-130	4.04	25		
1,2,4-Trimethylbenzene	8.75	1.0	µg/L	10.0		87.5		70-130	4.58	25		
1,3,5-Trimethylbenzene	9.63	1.0	µg/L	10.0		96.3		70-130	6.82	25		
Vinyl Chloride	8.98	2.0	µg/L	10.0		89.8		40-160	3.93	25		†
m+p Xylene	19.5	2.0	µg/L	20.0		97.6		70-130	5.05	25		
o-Xylene	9.63	1.0	µg/L	10.0		96.3		70-130	6.92	25		
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.2		70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104		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-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.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C 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	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)	NY
1,2-Dibromoethane (EDB)	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	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	NY
Ethylbenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C 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	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

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

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

RSM 19C0124

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Aptim Environmental & Infrastructure, Inc.
Address:	150 Royall Street, Canton, MA 02021
Phone:	617-589-6175
Project Name:	Textron Providence
Project Location:	333 Adelaide Avenue, Providence, RI
Project Number:	130274
Project Manager:	Brian Cote
Con-Test Bid:	PO 835493
Invoice Recipient:	Brian Cote
Sampled By:	Daniel C Leahy

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: GIS Key format
Enhanced Data Package Required: ☐
Email To: brian.cote@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
1	MW-112	2/27/19	0700		G	GW	U	3	
2	MW-116D	2/27/19	0800		G	GW	U	3	
3	MW-116S	2/27/19	0900		G	GW	U	3	

H
V
[2] Preservation Code
[3] Container Code

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: 2/27/19 1300
Received by: (signature)	Date/Time: 3-5-19 1334
Relinquished by: (signature)	Date/Time: 3-5-19 1705
Received by: (signature)	Date/Time: 3/5/19 1725
Relinquished by: (signature)	Date/Time: 3/5/19 1845
Received by: (signature)	Date/Time: 3/5/19 1844

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Aptim

Received By SL Date 3/5/19 Time 1845

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # S Actual Temp - 0.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

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

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

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-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 21, 2019

Brian Cote
APTIM - MA
150 Royall Street
Canton, MA 02021

Project Location: 333 Adelaide Ave. Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 19E0339

Enclosed are results of analyses for samples received by the laboratory on May 6, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

APTIM - MA
150 Royall Street
Canton, MA 02021
ATTN: Brian Cote

REPORT DATE: 5/21/2019

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19E0339

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

PROJECT LOCATION: 333 Adelaide Ave. Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-207S_20190501	19E0339-01	Ground Water		SW-846 8260C	
MW-207D_20190501	19E0339-02	Ground Water		SW-846 8260C	
MW-202S_20190501	19E0339-03	Ground Water		SW-846 8260C	
MW-202D_20190501	19E0339-04	Ground Water		SW-846 8260C	
MW-101D_20190501	19E0339-05	Ground Water		SW-846 8260C	
MW-101S_20190501	19E0339-06	Ground Water		SW-846 8260C	
MW-101S_20190501 FD	19E0339-07	Ground Water		SW-846 8260C	
MW-201D_20190501	19E0339-08	Ground Water		SW-846 8260C	
MW-216D_20190501	19E0339-09	Ground Water		SW-846 8260C	
MW-216S_20190501	19E0339-10	Ground Water		SW-846 8260C	
MW-217D_20190501	19E0339-11	Ground Water		SW-846 8260C	
MW-217S_20190501	19E0339-12	Ground Water		SW-846 8260C	
CW-06_20190501	19E0339-13	Ground Water		SW-846 8015C	
CW-06_20190501 FD	19E0339-14	Ground Water		SW-846 8015C	
CW-01_20190501	19E0339-15	Ground Water		SW-846 8260C	
CW-02_20190501	19E0339-16	Ground Water		SW-846 8260C	
MW-112_20190502	19E0339-17	Ground Water		SW-846 8260C	
MW-209D_20190502	19E0339-18	Ground Water		SW-846 8260C	
MW-218S_20190502	19E0339-19	Ground Water		SW-846 8260C	
MW-218D_20190502	19E0339-20	Ground Water		SW-846 8260C	
GZA-3_20190502	19E0339-21	Ground Water		SW-846 6020B	
				SW-846 8260C	
GZA-3_20190502 FD	19E0339-22	Ground Water		SW-846 6020B	
MW-109D_20190502	19E0339-23	Ground Water		SW-846 6020B	
				SW-846 8260C	
MW-116D_20190502	19E0339-24	Ground Water		SW-846 8260C	
MW-116S_20190502	19E0339-25	Ground Water		SW-846 8260C	
VOC TRIP BLANK	19E0339-26	Ground Water		SW-846 8260C	

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

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

Sample fingerprint does not match standard exactly.

Analyte & Samples(s) Qualified:

Transformer Oil
19E0339-13[CW-06_20190501], 19E0339-14[CW-06_20190501 FD]

SW-846 8260C

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

19E0339-10[MW-216S_20190501]

L-02

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
B230766-BS1, B230766-BSD1, S035876-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:

1,4-Dioxane
B230639-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

19E0339-08[MW-201D_20190501], 19E0339-15[CW-01_20190501], 19E0339-17[MW-112_20190502], 19E0339-20[MW-218D_20190502]

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:

2,2-Dichloropropane
19E0339-17[MW-112_20190502], 19E0339-18[MW-209D_20190502], 19E0339-19[MW-218S_20190502], 19E0339-20[MW-218D_20190502], 19E0339-21[GZA-3_20190502], 19E0339-23[MW-109D_20190502], 19E0339-24[MW-116D_20190502], 19E0339-25[MW-116S_20190502], 19E0339-26[VOC TRIP BLANK], B230639-BLK1, B230639-BS1, B230639-BSD1, S035879-CCV1
Chloromethane
19E0339-01[MW-207S_20190501], 19E0339-02[MW-207D_20190501], 19E0339-03[MW-202S_20190501], 19E0339-04[MW-202D_20190501], 19E0339-05[MW-101D_20190501], 19E0339-06[MW-101S_20190501], 19E0339-07[MW-101S_20190501 FD], 19E0339-08[MW-201D_20190501], 19E0339-09[MW-216D_20190501], 19E0339-10[MW-216S_20190501], 19E0339-11[MW-217D_20190501], 19E0339-12[MW-217S_20190501], 19E0339-15[CW-01_20190501], 19E0339-16[CW-02_20190501], B230766-BLK1, B230766-BS1, B230766-BSD1, S035876-CCV1
n-Butylbenzene
19E0339-17[MW-112_20190502], 19E0339-18[MW-209D_20190502], 19E0339-19[MW-218S_20190502], 19E0339-20[MW-218D_20190502], 19E0339-21[GZA-3_20190502], 19E0339-23[MW-109D_20190502], 19E0339-24[MW-116D_20190502], 19E0339-25[MW-116S_20190502], 19E0339-26[VOC TRIP BLANK], B230639-BLK1, B230639-BS1, B230639-BSD1, S035879-CCV1
trans-1,4-Dichloro-2-butene
19E0339-17[MW-112_20190502], 19E0339-18[MW-209D_20190502], 19E0339-19[MW-218S_20190502], 19E0339-20[MW-218D_20190502], 19E0339-21[GZA-3_20190502], 19E0339-23[MW-109D_20190502], 19E0339-24[MW-116D_20190502], 19E0339-25[MW-116S_20190502], 19E0339-26[VOC TRIP BLANK], B230639-BLK1, B230639-BS1, B230639-BSD1, S035879-CCV1

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V-20

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

B230766-BS1, B230766-BSD1, S035876-CCV1

Dichlorodifluoromethane (Freon 12

B230639-BS1, B230639-BSD1, S035879-CCV1

V-36

Initial calibration verification (ICV) 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:

Carbon Disulfide

B230639-BS1, B230639-BSD1, B230766-BS1, B230766-BSD1, S035876-CCV1, S035879-CCV1

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

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-207S_20190501 Sampled: 5/1/2019 07:45

Sample ID: 19E0339-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 15:18	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-207S_20190501 Sampled: 5/1/2019 07:45

Sample ID: 19E0339-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		5/14/19 15:18
Toluene-d8	104	70-130		5/14/19 15:18
4-Bromofluorobenzene	102	70-130		5/14/19 15:18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-207D_20190501 Sampled: 5/1/2019 08:00

Sample ID: 19E0339-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 15:49	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-207D_20190501 Sampled: 5/1/2019 08:00

Sample ID: 19E0339-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 15:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		5/14/19 15:49
Toluene-d8	103	70-130		5/14/19 15:49
4-Bromofluorobenzene	101	70-130		5/14/19 15:49

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-202S_20190501 Sampled: 5/1/2019 08:40

Sample ID: 19E0339-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 16:20	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-202S_20190501 Sampled: 5/1/2019 08:40

Sample ID: 19E0339-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Tetrachloroethylene	5.0	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:20	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/14/19 16:20
Toluene-d8	104	70-130		5/14/19 16:20
4-Bromofluorobenzene	101	70-130		5/14/19 16:20

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-202D_20190501 Sampled: 5/1/2019 09:00

Sample ID: 19E0339-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 16:50	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-202D_20190501 Sampled: 5/1/2019 09:00

Sample ID: 19E0339-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Tetrachloroethylene	16	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 16:50	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		5/14/19 16:50
Toluene-d8	103	70-130		5/14/19 16:50
4-Bromofluorobenzene	102	70-130		5/14/19 16:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101D_20190501 Sampled: 5/1/2019 09:30

Sample ID: 19E0339-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 17:21	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101D_20190501 Sampled: 5/1/2019 09:30

Sample ID: 19E0339-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Tetrachloroethylene	8.6	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:21	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		5/14/19 17:21
Toluene-d8	103	70-130		5/14/19 17:21
4-Bromofluorobenzene	102	70-130		5/14/19 17:21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101S_20190501 Sampled: 5/1/2019 10:00

Sample ID: 19E0339-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 20:25	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
cis-1,2-Dichloroethylene	5.8	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101S_20190501 Sampled: 5/1/2019 10:00

Sample ID: 19E0339-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Tetrachloroethylene	83	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Trichloroethylene	22	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:25	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/14/19 20:25
Toluene-d8	103	70-130		5/14/19 20:25
4-Bromofluorobenzene	101	70-130		5/14/19 20:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101S_20190501 FD Sampled: 5/1/2019 10:00

Sample ID: 19E0339-07

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 8260C	5/13/19	5/14/19 20:56	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 20:56	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
cis-1,2-Dichloroethylene	5.7	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-101S_20190501 FD Sampled: 5/1/2019 10:00

Sample ID: 19E0339-07

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 8260C	5/13/19	5/14/19 20:56	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Tetrachloroethylene	90	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Trichloroethylene	22	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 20:56	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/14/19 20:56
Toluene-d8	101	70-130		5/14/19 20:56
4-Bromofluorobenzene	101	70-130		5/14/19 20:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-201D_20190501 Sampled: 5/1/2019 10:40

Sample ID: 19E0339-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Benzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Bromoform	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Bromomethane	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Carbon Disulfide	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Chloroethane	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Chloroform	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Chloromethane	ND	100	µg/L	50	V-05	SW-846 8260C	5/13/19	5/14/19 21:27	LBD
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-201D_20190501 Sampled: 5/1/2019 10:40

Sample ID: 19E0339-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,4-Dioxane	ND	2500	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Methyl Acetate	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Naphthalene	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Styrene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Tetrachloroethylene	3600	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Toluene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Trichloroethylene	280	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
m+p Xylene	ND	100	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
o-Xylene	ND	50	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD
Xylenes (total)	ND	150	µg/L	50		SW-846 8260C	5/13/19	5/14/19 21:27	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/14/19 21:27
Toluene-d8	103	70-130		5/14/19 21:27
4-Bromofluorobenzene	101	70-130		5/14/19 21:27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-216D_20190501 Sampled: 5/1/2019 11:30

Sample ID: 19E0339-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 17:52	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-216D_20190501 Sampled: 5/1/2019 11:30

Sample ID: 19E0339-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Tetrachloroethylene	11	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Trichloroethylene	1.6	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 17:52	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		5/14/19 17:52
Toluene-d8	104	70-130		5/14/19 17:52
4-Bromofluorobenzene	101	70-130		5/14/19 17:52

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-216S_20190501 Sampled: 5/1/2019 12:00

Sample ID: 19E0339-10

Sample Matrix: Ground Water

Sample Flags: DL-03

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Bromomethane	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C	5/13/19	5/14/19 14:47	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
cis-1,2-Dichloroethylene	24	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-216S_20190501 Sampled: 5/1/2019 12:00

Sample ID: 19E0339-10

Sample Matrix: Ground Water

Sample Flags: DL-03

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Ethylbenzene	2.6	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Naphthalene	18	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,2,4-Trimethylbenzene	9.0	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
1,3,5-Trimethylbenzene	3.5	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
o-Xylene	8.7	2.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD
Xylenes (total)	ND	6.0	µg/L	2		SW-846 8260C	5/13/19	5/14/19 14:47	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		5/14/19 14:47
Toluene-d8	105	70-130		5/14/19 14:47
4-Bromofluorobenzene	102	70-130		5/14/19 14:47

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-217D_20190501 Sampled: 5/1/2019 12:40

Sample ID: 19E0339-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 18:23	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-217D_20190501 Sampled: 5/1/2019 12:40

Sample ID: 19E0339-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Tetrachloroethylene	5.5	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Trichloroethylene	1.9	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:23	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		5/14/19 18:23
Toluene-d8	103	70-130		5/14/19 18:23
4-Bromofluorobenzene	102	70-130		5/14/19 18:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-217S_20190501 Sampled: 5/1/2019 13:30

Sample ID: 19E0339-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 18:53	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-217S_20190501 Sampled: 5/1/2019 13:30

Sample ID: 19E0339-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Tetrachloroethylene	11	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 18:53	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		5/14/19 18:53
Toluene-d8	103	70-130		5/14/19 18:53
4-Bromofluorobenzene	101	70-130		5/14/19 18:53

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

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-06_20190501 Sampled: 5/1/2019 14:00

Sample ID: 19E0339-13

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Transformer Oil	5.5	0.19	mg/L	1	Z-01	SW-846 8015C	5/8/19	5/9/19 12:46	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	86.9	40-140		5/9/19 12:46

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

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-06_20190501 FD Sampled: 5/1/2019 14:15

Sample ID: 19E0339-14

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Transformer Oil	6.5	0.19	mg/L	1	Z-01	SW-846 8015C	5/8/19	5/9/19 13:04	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	96.3	40-140		5/9/19 13:04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-01_20190501 Sampled: 5/1/2019 15:00

Sample ID: 19E0339-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Bromomethane	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Carbon Disulfide	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Chloromethane	ND	10	µg/L	5	V-05	SW-846 8260C	5/13/19	5/14/19 19:55	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
cis-1,2-Dichloroethylene	250	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
trans-1,2-Dichloroethylene	20	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-01_20190501 Sampled: 5/1/2019 15:00

Sample ID: 19E0339-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Methyl Acetate	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Naphthalene	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Trichloroethylene	410	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD
Xylenes (total)	ND	15	µg/L	5		SW-846 8260C	5/13/19	5/14/19 19:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/14/19 19:55
Toluene-d8	104	70-130		5/14/19 19:55
4-Bromofluorobenzene	102	70-130		5/14/19 19:55

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-02_20190501 Sampled: 5/1/2019 15:40

Sample ID: 19E0339-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/13/19	5/14/19 19:24	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: CW-02_20190501 Sampled: 5/1/2019 15:40

Sample ID: 19E0339-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/13/19	5/14/19 19:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		5/14/19 19:24
Toluene-d8	103	70-130		5/14/19 19:24
4-Bromofluorobenzene	101	70-130		5/14/19 19:24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-112_20190502 Sampled: 5/2/2019 08:00

Sample ID: 19E0339-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Bromomethane	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
n-Butylbenzene	ND	2.0	µg/L	2	V-05	SW-846 8260C	5/14/19	5/15/19 10:16	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2	V-05	SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2	V-05	SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-112_20190502 Sampled: 5/2/2019 08:00

Sample ID: 19E0339-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Tetrachloroethylene	110	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Trichloroethylene	3.8	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD
Xylenes (total)	ND	6.0	µg/L	2		SW-846 8260C	5/14/19	5/15/19 10:16	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		5/15/19 10:16
Toluene-d8	104	70-130		5/15/19 10:16
4-Bromofluorobenzene	102	70-130		5/15/19 10:16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-209D_20190502 Sampled: 5/2/2019 07:00

Sample ID: 19E0339-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:45	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1-Dichloroethylene	3.0	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
cis-1,2-Dichloroethylene	110	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
trans-1,2-Dichloroethylene	13	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-209D_20190502 Sampled: 5/2/2019 07:00

Sample ID: 19E0339-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Methyl tert-Butyl Ether (MTBE)	2.3	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Tetrachloroethylene	28	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Trichloroethylene	7.3	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Vinyl Chloride	26	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:45	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		5/15/19 9:45
Toluene-d8	105	70-130		5/15/19 9:45
4-Bromofluorobenzene	102	70-130		5/15/19 9:45

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-218S_20190502 Sampled: 5/2/2019 09:00

Sample ID: 19E0339-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:14	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-218S_20190502 Sampled: 5/2/2019 09:00

Sample ID: 19E0339-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Tetrachloroethylene	21	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 9:14	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		5/15/19 9:14
Toluene-d8	104	70-130		5/15/19 9:14
4-Bromofluorobenzene	102	70-130		5/15/19 9:14

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-218D_20190502 Sampled: 5/2/2019 10:00

Sample ID: 19E0339-20

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	1200	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Acrylonitrile	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
tert-Amyl Methyl Ether (TAME)	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Benzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Bromobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Bromochloromethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Bromodichloromethane	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Bromoform	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Bromomethane	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
2-Butanone (MEK)	ND	500	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
tert-Butyl Alcohol (TBA)	ND	500	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
n-Butylbenzene	ND	25	µg/L	25	V-05	SW-846 8260C	5/14/19	5/15/19 10:46	LBD
sec-Butylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
tert-Butylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Carbon Disulfide	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Carbon Tetrachloride	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Chlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Chlorodibromomethane	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Chloroethane	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Chloroform	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Chloromethane	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
2-Chlorotoluene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
4-Chlorotoluene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2-Dibromoethane (EDB)	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Dibromomethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,3-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,4-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
trans-1,4-Dichloro-2-butene	ND	50	µg/L	25	V-05	SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1-Dichloroethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2-Dichloroethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
cis-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
trans-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,3-Dichloropropane	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
2,2-Dichloropropane	ND	25	µg/L	25	V-05	SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1-Dichloropropene	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
cis-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
trans-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Diethyl Ether	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-218D_20190502 Sampled: 5/2/2019 10:00

Sample ID: 19E0339-20

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	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,4-Dioxane	ND	1200	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Ethylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Hexachlorobutadiene	ND	15	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
2-Hexanone (MBK)	ND	250	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Isopropylbenzene (Cumene)	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Methyl Acetate	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Methyl tert-Butyl Ether (MTBE)	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Methyl Cyclohexane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Methylene Chloride	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	250	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Naphthalene	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
n-Propylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Styrene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1,1,2-Tetrachloroethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1,2,2-Tetrachloroethane	ND	12	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Tetrachloroethylene	1500	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Tetrahydrofuran	ND	250	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Toluene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2,3-Trichlorobenzene	ND	120	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2,4-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,3,5-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1,1-Trichloroethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1,2-Trichloroethane	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Trichloroethylene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Trichlorofluoromethane (Freon 11)	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2,3-Trichloropropane	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,2,4-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
1,3,5-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Vinyl Chloride	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
m+p Xylene	ND	50	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
o-Xylene	ND	25	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD
Xylenes (total)	ND	75	µg/L	25		SW-846 8260C	5/14/19	5/15/19 10:46	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/15/19 10:46
Toluene-d8	105	70-130		5/15/19 10:46
4-Bromofluorobenzene	101	70-130		5/15/19 10:46

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: GZA-3_20190502 Sampled: 5/2/2019 11:30

Sample ID: 19E0339-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:11	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2-Dichlorobenzene	1.1	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
cis-1,2-Dichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: GZA-3_20190502 Sampled: 5/2/2019 11:30

Sample ID: 19E0339-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Vinyl Chloride	10	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:11	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		5/15/19 7:11
Toluene-d8	103	70-130		5/15/19 7:11
4-Bromofluorobenzene	102	70-130		5/15/19 7:11

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

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: GZA-3_20190502 Sampled: 5/2/2019 11:30

Sample ID: 19E0339-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	8.3	0.50	µg/L	1		SW-846 6020B	5/17/19	5/20/19 17:33	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: GZA-3_20190502 FD Sampled: 5/2/2019 11:30

Sample ID: 19E0339-22

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	9.1	0.50	µg/L	1		SW-846 6020B	5/17/19	5/20/19 17:37	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-109D_20190502 Sampled: 5/2/2019 12:30

Sample ID: 19E0339-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-109D_20190502 Sampled: 5/2/2019 12:30

Sample ID: 19E0339-23

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 7:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/15/19 7:42
Toluene-d8	104	70-130		5/15/19 7:42
4-Bromofluorobenzene	101	70-130		5/15/19 7:42

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

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-109D_20190502 Sampled: 5/2/2019 12:30

Sample ID: 19E0339-23

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.50	µg/L	1		SW-846 6020B	5/17/19	5/20/19 17:47	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-116D_20190502 Sampled: 5/2/2019 13:30

Sample ID: 19E0339-24

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 8260C	5/14/19	5/15/19 8:12	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:12	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-116D_20190502 Sampled: 5/2/2019 13:30

Sample ID: 19E0339-24

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 8260C	5/14/19	5/15/19 8:12	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:12	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/15/19 8:12
Toluene-d8	104	70-130		5/15/19 8:12
4-Bromofluorobenzene	101	70-130		5/15/19 8:12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-116S_20190502 Sampled: 5/2/2019 14:30

Sample ID: 19E0339-25

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 8260C	5/14/19	5/15/19 8:43	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:43	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: MW-116S_20190502 Sampled: 5/2/2019 14:30

Sample ID: 19E0339-25

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 8260C	5/14/19	5/15/19 8:43	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 8:43	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/15/19 8:43
Toluene-d8	104	70-130		5/15/19 8:43
4-Bromofluorobenzene	99.6	70-130		5/15/19 8:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: VOC TRIP BLANK Sampled: 5/1/2019 00:00

Sample ID: 19E0339-26

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
n-Butylbenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 3:05	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 333 Adelaide Ave. Providence, RI Sample Description: Work Order: 19E0339

Date Received: 5/6/2019

Field Sample #: VOC TRIP BLANK Sampled: 5/1/2019 00:00

Sample ID: 19E0339-26

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C	5/14/19	5/15/19 3:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/15/19 3:05
Toluene-d8	105	70-130		5/15/19 3:05
4-Bromofluorobenzene	101	70-130		5/15/19 3:05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19E0339-21 [GZA-3_20190502]	B231098	10.0	10.0	05/17/19
19E0339-22 [GZA-3_20190502 FD]	B231098	10.0	10.0	05/17/19
19E0339-23 [MW-109D_20190502]	B231098	10.0	10.0	05/17/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19E0339-13 [CW-06_20190501]	B230124	1030	1.00	05/08/19
19E0339-14 [CW-06_20190501 FD]	B230124	1030	1.00	05/08/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19E0339-17 [MW-112_20190502]	B230639	2.5	5.00	05/14/19
19E0339-18 [MW-209D_20190502]	B230639	5	5.00	05/14/19
19E0339-19 [MW-218S_20190502]	B230639	5	5.00	05/14/19
19E0339-20 [MW-218D_20190502]	B230639	0.2	5.00	05/14/19
19E0339-21 [GZA-3_20190502]	B230639	5	5.00	05/14/19
19E0339-23 [MW-109D_20190502]	B230639	5	5.00	05/14/19
19E0339-24 [MW-116D_20190502]	B230639	5	5.00	05/14/19
19E0339-25 [MW-116S_20190502]	B230639	5	5.00	05/14/19
19E0339-26 [VOC TRIP BLANK]	B230639	5	5.00	05/14/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19E0339-01 [MW-207S_20190501]	B230766	5	5.00	05/13/19
19E0339-02 [MW-207D_20190501]	B230766	5	5.00	05/13/19
19E0339-03 [MW-202S_20190501]	B230766	5	5.00	05/13/19
19E0339-04 [MW-202D_20190501]	B230766	5	5.00	05/13/19
19E0339-05 [MW-101D_20190501]	B230766	5	5.00	05/13/19
19E0339-06 [MW-101S_20190501]	B230766	5	5.00	05/13/19
19E0339-07 [MW-101S_20190501 FD]	B230766	5	5.00	05/13/19
19E0339-08 [MW-201D_20190501]	B230766	0.1	5.00	05/13/19
19E0339-09 [MW-216D_20190501]	B230766	5	5.00	05/13/19
19E0339-10 [MW-216S_20190501]	B230766	2.5	5.00	05/13/19
19E0339-11 [MW-217D_20190501]	B230766	5	5.00	05/13/19
19E0339-12 [MW-217S_20190501]	B230766	5	5.00	05/13/19
19E0339-15 [CW-01_20190501]	B230766	1	5.00	05/13/19
19E0339-16 [CW-02_20190501]	B230766	5	5.00	05/13/19

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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 B230639 - SW-846 5030B										
Blank (B230639-BLK1)				Prepared: 05/14/19 Analyzed: 05/15/19						
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							V-05
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							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							V-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 B230639 - SW-846 5030B											
Blank (B230639-BLK1)				Prepared: 05/14/19 Analyzed: 05/15/19							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	3.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*26.4*		µg/L	25.0		105	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		101	70-130				
LCS (B230639-BS1)				Prepared: 05/14/19 Analyzed: 05/15/19							
Acetone	109	50	µg/L	100		109	70-160				†
Acrylonitrile	10.8	5.0	µg/L	10.0		108	70-130				
tert-Amyl Methyl Ether (TAME)	8.82	0.50	µg/L	10.0		88.2	70-130				
Benzene	9.26	1.0	µg/L	10.0		92.6	70-130				
Bromobenzene	9.72	1.0	µg/L	10.0		97.2	70-130				
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130				
Bromodichloromethane	9.74	0.50	µg/L	10.0		97.4	70-130				
Bromoform	8.87	1.0	µg/L	10.0		88.7	70-130				
Bromomethane	4.29	2.0	µg/L	10.0		42.9	40-160				†
2-Butanone (MEK)	100	20	µg/L	100		100	40-160				†
tert-Butyl Alcohol (TBA)	99.1	20	µg/L	100		99.1	40-160				†
n-Butylbenzene	8.34	1.0	µg/L	10.0		83.4	70-130			V-05	
sec-Butylbenzene	8.98	1.0	µg/L	10.0		89.8	70-130				
tert-Butylbenzene	8.87	1.0	µg/L	10.0		88.7	70-130				
tert-Butyl Ethyl Ether (TBEE)	8.68	0.50	µg/L	10.0		86.8	70-130				
Carbon Disulfide	10.1	5.0	µg/L	10.0		101	70-130			V-36	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130				
Chlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130				
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130				
Chloroethane	9.48	2.0	µg/L	10.0		94.8	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B230639 - SW-846 5030B												
LCS (B230639-BS1)				Prepared: 05/14/19 Analyzed: 05/15/19								
Chloroform	9.52	2.0	µg/L	10.0		95.2		70-130				
Chloromethane	5.95	2.0	µg/L	10.0		59.5		40-160				†
2-Chlorotoluene	9.62	1.0	µg/L	10.0		96.2		70-130				
4-Chlorotoluene	9.37	1.0	µg/L	10.0		93.7		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.83	5.0	µg/L	10.0		98.3		70-130				
1,2-Dibromoethane (EDB)	9.85	0.50	µg/L	10.0		98.5		70-130				
Dibromomethane	11.1	1.0	µg/L	10.0		111		70-130				
1,2-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3		70-130				
1,3-Dichlorobenzene	9.50	1.0	µg/L	10.0		95.0		70-130				
1,4-Dichlorobenzene	9.50	1.0	µg/L	10.0		95.0		70-130				
trans-1,4-Dichloro-2-butene	9.02	2.0	µg/L	10.0		90.2		70-130			V-05	
Dichlorodifluoromethane (Freon 12)	8.14	2.0	µg/L	10.0		81.4		40-160			V-20	†
1,1-Dichloroethane	9.51	1.0	µg/L	10.0		95.1		70-130				
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130				
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3		70-130				
cis-1,2-Dichloroethylene	9.43	1.0	µg/L	10.0		94.3		70-130				
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dichloropropane	9.80	1.0	µg/L	10.0		98.0		70-130				
1,3-Dichloropropane	9.88	0.50	µg/L	10.0		98.8		70-130				
2,2-Dichloropropane	7.52	1.0	µg/L	10.0		75.2		40-130			V-05	†
1,1-Dichloropropene	9.48	2.0	µg/L	10.0		94.8		70-130				
cis-1,3-Dichloropropene	8.89	0.50	µg/L	10.0		88.9		70-130				
trans-1,3-Dichloropropene	8.47	0.50	µg/L	10.0		84.7		70-130				
Diethyl Ether	10.3	2.0	µg/L	10.0		103		70-130				
Diisopropyl Ether (DIPE)	9.53	0.50	µg/L	10.0		95.3		70-130				
1,4-Dioxane	135	50	µg/L	100		**135**	*	40-130			L-07	†
Ethylbenzene	9.44	1.0	µg/L	10.0		94.4		70-130				
Hexachlorobutadiene	10.1	0.60	µg/L	10.0		101		70-130				
2-Hexanone (MBK)	99.6	10	µg/L	100		99.6		70-160				†
Isopropylbenzene (Cumene)	9.87	1.0	µg/L	10.0		98.7		70-130				
p-Isopropyltoluene (p-Cymene)	8.81	1.0	µg/L	10.0		88.1		70-130				
Methyl Acetate	10.3	1.0	µg/L	10.0		103		70-130				
Methyl tert-Butyl Ether (MTBE)	9.63	1.0	µg/L	10.0		96.3		70-130				
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106		70-130				
Methylene Chloride	9.64	5.0	µg/L	10.0		96.4		70-130				
4-Methyl-2-pentanone (MIBK)	99.3	10	µg/L	100		99.3		70-160				†
Naphthalene	9.83	2.0	µg/L	10.0		98.3		40-130				†
n-Propylbenzene	9.48	1.0	µg/L	10.0		94.8		70-130				
Styrene	9.43	1.0	µg/L	10.0		94.3		70-130				
1,1,1,2-Tetrachloroethane	9.95	1.0	µg/L	10.0		99.5		70-130				
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101		70-130				
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108		70-130				
Tetrahydrofuran	10.4	10	µg/L	10.0		104		70-130				
Toluene	9.77	1.0	µg/L	10.0		97.7		70-130				
1,2,3-Trichlorobenzene	9.96	5.0	µg/L	10.0		99.6		70-130				
1,2,4-Trichlorobenzene	9.52	1.0	µg/L	10.0		95.2		70-130				
1,3,5-Trichlorobenzene	9.54	1.0	µg/L	10.0		95.4		70-130				
1,1,1-Trichloroethane	9.62	1.0	µg/L	10.0		96.2		70-130				
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130				
Trichloroethylene	9.82	1.0	µg/L	10.0		98.2		70-130				
Trichlorofluoromethane (Freon 11)	9.65	2.0	µg/L	10.0		96.5		70-130				
1,2,3-Trichloropropane	9.97	2.0	µg/L	10.0		99.7		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B230639 - SW-846 5030B											
LCS (B230639-BS1)				Prepared: 05/14/19 Analyzed: 05/15/19							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8	1.0	µg/L	10.0		118	70-130				
1,2,4-Trimethylbenzene	8.45	1.0	µg/L	10.0		84.5	70-130				
1,3,5-Trimethylbenzene	9.02	1.0	µg/L	10.0		90.2	70-130				
Vinyl Chloride	8.10	2.0	µg/L	10.0		81.0	40-160				†
m+p Xylene	19.0	2.0	µg/L	20.0		95.2	70-130				
o-Xylene	9.54	1.0	µg/L	10.0		95.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130				
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130				
LCS Dup (B230639-BSD1)				Prepared: 05/14/19 Analyzed: 05/15/19							
Acetone	110	50	µg/L	100		110	70-160	0.694	25		†
Acrylonitrile	11.2	5.0	µg/L	10.0		112	70-130	3.37	25		
tert-Amyl Methyl Ether (TAME)	8.92	0.50	µg/L	10.0		89.2	70-130	1.13	25		
Benzene	9.17	1.0	µg/L	10.0		91.7	70-130	0.977	25		
Bromobenzene	9.47	1.0	µg/L	10.0		94.7	70-130	2.61	25		
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130	4.60	25		
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130	2.93	25		
Bromoform	8.83	1.0	µg/L	10.0		88.3	70-130	0.452	25		
Bromomethane	5.03	2.0	µg/L	10.0		50.3	40-160	15.9	25		†
2-Butanone (MEK)	101	20	µg/L	100		101	40-160	0.489	25		†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160	4.55	25		†
n-Butylbenzene	8.08	1.0	µg/L	10.0		80.8	70-130	3.17	25	V-05	
sec-Butylbenzene	8.48	1.0	µg/L	10.0		84.8	70-130	5.73	25		
tert-Butylbenzene	8.62	1.0	µg/L	10.0		86.2	70-130	2.86	25		
tert-Butyl Ethyl Ether (TBEE)	8.83	0.50	µg/L	10.0		88.3	70-130	1.71	25		
Carbon Disulfide	9.97	5.0	µg/L	10.0		99.7	70-130	1.39	25	V-36	
Carbon Tetrachloride	9.83	5.0	µg/L	10.0		98.3	70-130	3.89	25		
Chlorobenzene	9.75	1.0	µg/L	10.0		97.5	70-130	1.32	25		
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130	0.968	25		
Chloroethane	9.43	2.0	µg/L	10.0		94.3	70-130	0.529	25		
Chloroform	9.65	2.0	µg/L	10.0		96.5	70-130	1.36	25		
Chloromethane	6.11	2.0	µg/L	10.0		61.1	40-160	2.65	25		†
2-Chlorotoluene	9.43	1.0	µg/L	10.0		94.3	70-130	1.99	25		
4-Chlorotoluene	9.28	1.0	µg/L	10.0		92.8	70-130	0.965	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.72	5.0	µg/L	10.0		97.2	70-130	1.13	25		
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	2.70	25		
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130	0.0904	25		
1,2-Dichlorobenzene	9.32	1.0	µg/L	10.0		93.2	70-130	3.27	25		
1,3-Dichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	4.08	25		
1,4-Dichlorobenzene	9.08	1.0	µg/L	10.0		90.8	70-130	4.52	25		
trans-1,4-Dichloro-2-butene	8.74	2.0	µg/L	10.0		87.4	70-130	3.15	25	V-05	
Dichlorodifluoromethane (Freon 12)	7.91	2.0	µg/L	10.0		79.1	40-160	2.87	25	V-20	†
1,1-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130	1.15	25		
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.60	25		
1,1-Dichloroethylene	9.82	1.0	µg/L	10.0		98.2	70-130	1.11	25		
cis-1,2-Dichloroethylene	9.54	1.0	µg/L	10.0		95.4	70-130	1.16	25		
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	0.298	25		
1,2-Dichloropropane	9.72	1.0	µg/L	10.0		97.2	70-130	0.820	25		
1,3-Dichloropropane	9.89	0.50	µg/L	10.0		98.9	70-130	0.101	25		
2,2-Dichloropropane	7.29	1.0	µg/L	10.0		72.9	40-130	3.11	25	V-05	†
1,1-Dichloropropene	9.22	2.0	µg/L	10.0		92.2	70-130	2.78	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 B230639 - SW-846 5030B										
LCS Dup (B230639-BSD1)				Prepared: 05/14/19 Analyzed: 05/15/19						
cis-1,3-Dichloropropene	8.88	0.50	µg/L	10.0		88.8	70-130	0.113	25	
trans-1,3-Dichloropropene	8.34	0.50	µg/L	10.0		83.4	70-130	1.55	25	
Diethyl Ether	10.7	2.0	µg/L	10.0		107	70-130	3.34	25	
Diisopropyl Ether (DIPE)	9.61	0.50	µg/L	10.0		96.1	70-130	0.836	25	
1,4-Dioxane	121	50	µg/L	100		121	40-130	10.3	50	† ‡
Ethylbenzene	9.32	1.0	µg/L	10.0		93.2	70-130	1.28	25	
Hexachlorobutadiene	9.76	0.60	µg/L	10.0		97.6	70-130	3.23	25	
2-Hexanone (MBK)	102	10	µg/L	100		102	70-160	2.52	25	†
Isopropylbenzene (Cumene)	9.64	1.0	µg/L	10.0		96.4	70-130	2.36	25	
p-Isopropyltoluene (p-Cymene)	8.39	1.0	µg/L	10.0		83.9	70-130	4.88	25	
Methyl Acetate	11.2	1.0	µg/L	10.0		112	70-130	7.92	25	
Methyl tert-Butyl Ether (MTBE)	9.80	1.0	µg/L	10.0		98.0	70-130	1.75	25	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	3.77	25	
Methylene Chloride	9.58	5.0	µg/L	10.0		95.8	70-130	0.624	25	
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103	70-160	3.55	25	†
Naphthalene	9.79	2.0	µg/L	10.0		97.9	40-130	0.408	25	†
n-Propylbenzene	9.16	1.0	µg/L	10.0		91.6	70-130	3.43	25	
Styrene	9.30	1.0	µg/L	10.0		93.0	70-130	1.39	25	
1,1,1,2-Tetrachloroethane	9.37	1.0	µg/L	10.0		93.7	70-130	6.00	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	0.0990	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	1.88	25	
Tetrahydrofuran	10.7	10	µg/L	10.0		107	70-130	2.47	25	
Toluene	9.57	1.0	µg/L	10.0		95.7	70-130	2.07	25	
1,2,3-Trichlorobenzene	9.83	5.0	µg/L	10.0		98.3	70-130	1.31	25	
1,2,4-Trichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130	4.40	25	
1,3,5-Trichlorobenzene	9.25	1.0	µg/L	10.0		92.5	70-130	3.09	25	
1,1,1-Trichloroethane	9.57	1.0	µg/L	10.0		95.7	70-130	0.521	25	
1,1,2-Trichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	1.30	25	
Trichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130	0.407	25	
Trichlorofluoromethane (Freon 11)	9.80	2.0	µg/L	10.0		98.0	70-130	1.54	25	
1,2,3-Trichloropropane	9.64	2.0	µg/L	10.0		96.4	70-130	3.37	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.0		113	70-130	4.68	25	
1,2,4-Trimethylbenzene	8.38	1.0	µg/L	10.0		83.8	70-130	0.832	25	
1,3,5-Trimethylbenzene	8.94	1.0	µg/L	10.0		89.4	70-130	0.891	25	
Vinyl Chloride	8.02	2.0	µg/L	10.0		80.2	40-160	0.993	25	†
m+p Xylene	18.7	2.0	µg/L	20.0		93.4	70-130	2.01	25	
o-Xylene	9.47	1.0	µg/L	10.0		94.7	70-130	0.736	25	
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
Batch B230766 - SW-846 5030B										
Blank (B230766-BLK1)				Prepared & Analyzed: 05/14/19						
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							

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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 B230766 - SW-846 5030B										
Blank (B230766-BLK1)				Prepared & Analyzed: 05/14/19						
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B230766 - SW-846 5030B											
Blank (B230766-BLK1)				Prepared & Analyzed: 05/14/19							
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	3.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*26.2*		µg/L	25.0		105	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		101	70-130				
LCS (B230766-BS1)				Prepared & Analyzed: 05/14/19							
Acetone	113	50	µg/L	100		113	70-160				†
Acrylonitrile	11.0	5.0	µg/L	10.0		110	70-130				
tert-Amyl Methyl Ether (TAME)	9.20	0.50	µg/L	10.0		92.0	70-130				
Benzene	9.73	1.0	µg/L	10.0		97.3	70-130				
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130				
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130				
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130				
Bromoform	9.89	1.0	µg/L	10.0		98.9	70-130				
Bromomethane	5.34	2.0	µg/L	10.0		53.4	40-160				†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160				†
tert-Butyl Alcohol (TBA)	107	20	µg/L	100		107	40-160				†
n-Butylbenzene	9.14	1.0	µg/L	10.0		91.4	70-130				
sec-Butylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130				
tert-Butylbenzene	9.41	1.0	µg/L	10.0		94.1	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.35	0.50	µg/L	10.0		93.5	70-130				
Carbon Disulfide	10.8	5.0	µg/L	10.0		108	70-130			V-36	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130				
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130				
Chloroethane	10.0	2.0	µg/L	10.0		100	70-130				
Chloroform	10.1	2.0	µg/L	10.0		101	70-130				
Chloromethane	6.53	2.0	µg/L	10.0		65.3	40-160			V-05	†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130				
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.80	5.0	µg/L	10.0		98.0	70-130				
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130				
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B230766 - SW-846 5030B												
LCS (B230766-BS1)				Prepared & Analyzed: 05/14/19								
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100		70-130				
1,4-Dichlorobenzene	9.74	1.0	µg/L	10.0		97.4		70-130				
trans-1,4-Dichloro-2-butene	10.1	2.0	µg/L	10.0		101		70-130				
Dichlorodifluoromethane (Freon 12)	8.34	2.0	µg/L	10.0		83.4		40-160				†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103		70-130				
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112		70-130				
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102		70-130				
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130				
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130				
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		70-130				
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102		70-130				
2,2-Dichloropropane	9.44	1.0	µg/L	10.0		94.4		40-130				†
1,1-Dichloropropene	9.67	2.0	µg/L	10.0		96.7		70-130				
cis-1,3-Dichloropropene	9.59	0.50	µg/L	10.0		95.9		70-130				
trans-1,3-Dichloropropene	9.13	0.50	µg/L	10.0		91.3		70-130				
Diethyl Ether	10.9	2.0	µg/L	10.0		109		70-130				
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103		70-130				
1,4-Dioxane	138	50	µg/L	100		**138**	*	40-130			L-02, V-20	†
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116		70-130				
2-Hexanone (MBK)	101	10	µg/L	100		101		70-160				†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130				
p-Isopropyltoluene (p-Cymene)	9.30	1.0	µg/L	10.0		93.0		70-130				
Methyl Acetate	9.56	1.0	µg/L	10.0		95.6		70-130				
Methyl tert-Butyl Ether (MTBE)	9.98	1.0	µg/L	10.0		99.8		70-130				
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102		70-130				
Methylene Chloride	10.1	5.0	µg/L	10.0		101		70-130				
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102		70-160				†
Naphthalene	10.1	2.0	µg/L	10.0		101		40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
Styrene	10.2	1.0	µg/L	10.0		102		70-130				
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130				
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110		70-130				
Tetrahydrofuran	11.2	10	µg/L	10.0		112		70-130				
Toluene	10.1	1.0	µg/L	10.0		101		70-130				
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109		70-130				
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130				
Trichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
Trichlorofluoromethane (Freon 11)	9.68	2.0	µg/L	10.0		96.8		70-130				
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0		111		70-130				
1,2,4-Trimethylbenzene	8.82	1.0	µg/L	10.0		88.2		70-130				
1,3,5-Trimethylbenzene	9.76	1.0	µg/L	10.0		97.6		70-130				
Vinyl Chloride	8.45	2.0	µg/L	10.0		84.5		40-160				†
m+p Xylene	20.3	2.0	µg/L	20.0		101		70-130				
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103		70-130				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B230766 - SW-846 5030B												
LCS (B230766-BS1)				Prepared & Analyzed: 05/14/19								
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104		70-130				
LCS Dup (B230766-BSD1)				Prepared & Analyzed: 05/14/19								
Acetone	118	50	µg/L	100		118		70-160	4.37	25		†
Acrylonitrile	10.8	5.0	µg/L	10.0		108		70-130	1.38	25		
tert-Amyl Methyl Ether (TAME)	8.76	0.50	µg/L	10.0		87.6		70-130	4.90	25		
Benzene	9.04	1.0	µg/L	10.0		90.4		70-130	7.35	25		
Bromobenzene	9.39	1.0	µg/L	10.0		93.9		70-130	9.73	25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130	7.59	25		
Bromodichloromethane	9.85	0.50	µg/L	10.0		98.5		70-130	5.14	25		
Bromoform	8.89	1.0	µg/L	10.0		88.9		70-130	10.6	25		
Bromomethane	6.16	2.0	µg/L	10.0		61.6		40-160	14.3	25		†
2-Butanone (MEK)	101	20	µg/L	100		101		40-160	1.69	25		†
tert-Butyl Alcohol (TBA)	103	20	µg/L	100		103		40-160	3.28	25		†
n-Butylbenzene	8.58	1.0	µg/L	10.0		85.8		70-130	6.32	25		
sec-Butylbenzene	8.89	1.0	µg/L	10.0		88.9		70-130	5.79	25		
tert-Butylbenzene	8.78	1.0	µg/L	10.0		87.8		70-130	6.93	25		
tert-Butyl Ethyl Ether (TBEE)	8.68	0.50	µg/L	10.0		86.8		70-130	7.43	25		
Carbon Disulfide	9.78	5.0	µg/L	10.0		97.8		70-130	9.54	25	V-36	
Carbon Tetrachloride	9.64	5.0	µg/L	10.0		96.4		70-130	5.35	25		
Chlorobenzene	9.57	1.0	µg/L	10.0		95.7		70-130	10.3	25		
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103		70-130	2.11	25		
Chloroethane	9.20	2.0	µg/L	10.0		92.0		70-130	8.83	25		
Chloroform	9.46	2.0	µg/L	10.0		94.6		70-130	6.84	25		
Chloromethane	6.08	2.0	µg/L	10.0		60.8		40-160	7.14	25	V-05	†
2-Chlorotoluene	9.54	1.0	µg/L	10.0		95.4		70-130	9.77	25		
4-Chlorotoluene	9.32	1.0	µg/L	10.0		93.2		70-130	9.80	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.90	5.0	µg/L	10.0		99.0		70-130	1.02	25		
1,2-Dibromoethane (EDB)	9.67	0.50	µg/L	10.0		96.7		70-130	5.04	25		
Dibromomethane	10.9	1.0	µg/L	10.0		109		70-130	4.04	25		
1,2-Dichlorobenzene	9.41	1.0	µg/L	10.0		94.1		70-130	7.07	25		
1,3-Dichlorobenzene	9.52	1.0	µg/L	10.0		95.2		70-130	5.42	25		
1,4-Dichlorobenzene	9.22	1.0	µg/L	10.0		92.2		70-130	5.49	25		
trans-1,4-Dichloro-2-butene	9.10	2.0	µg/L	10.0		91.0		70-130	10.0	25		
Dichlorodifluoromethane (Freon 12)	8.01	2.0	µg/L	10.0		80.1		40-160	4.04	25		†
1,1-Dichloroethane	9.52	1.0	µg/L	10.0		95.2		70-130	8.26	25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	6.14	25		
1,1-Dichloroethylene	9.47	1.0	µg/L	10.0		94.7		70-130	7.32	25		
cis-1,2-Dichloroethylene	9.56	1.0	µg/L	10.0		95.6		70-130	8.99	25		
trans-1,2-Dichloroethylene	9.82	1.0	µg/L	10.0		98.2		70-130	6.50	25		
1,2-Dichloropropane	9.50	1.0	µg/L	10.0		95.0		70-130	8.18	25		
1,3-Dichloropropane	9.75	0.50	µg/L	10.0		97.5		70-130	4.22	25		
2,2-Dichloropropane	8.85	1.0	µg/L	10.0		88.5		40-130	6.45	25		†
1,1-Dichloropropene	9.12	2.0	µg/L	10.0		91.2		70-130	5.85	25		
cis-1,3-Dichloropropene	8.91	0.50	µg/L	10.0		89.1		70-130	7.35	25		
trans-1,3-Dichloropropene	8.86	0.50	µg/L	10.0		88.6		70-130	3.00	25		
Diethyl Ether	10.3	2.0	µg/L	10.0		103		70-130	5.56	25		
Diisopropyl Ether (DIPE)	9.67	0.50	µg/L	10.0		96.7		70-130	6.21	25		
1,4-Dioxane	136	50	µg/L	100		**136**	*	40-130	1.45	50	L-02, V-20	† ‡
Ethylbenzene	9.24	1.0	µg/L	10.0		92.4		70-130	10.1	25		
Hexachlorobutadiene	10.9	0.60	µg/L	10.0		109		70-130	6.13	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 B230766 - SW-846 5030B										
LCS Dup (B230766-BSD1)				Prepared & Analyzed: 05/14/19						
2-Hexanone (MBK)	99.7	10	µg/L	100		99.7	70-160	1.03	25	†
Isopropylbenzene (Cumene)	9.64	1.0	µg/L	10.0		96.4	70-130	9.01	25	
p-Isopropyltoluene (p-Cymene)	8.72	1.0	µg/L	10.0		87.2	70-130	6.44	25	
Methyl Acetate	9.67	1.0	µg/L	10.0		96.7	70-130	1.14	25	
Methyl tert-Butyl Ether (MTBE)	9.52	1.0	µg/L	10.0		95.2	70-130	4.72	25	
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103	70-130	0.782	25	
Methylene Chloride	9.59	5.0	µg/L	10.0		95.9	70-130	5.48	25	
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100	70-160	1.57	25	†
Naphthalene	9.75	2.0	µg/L	10.0		97.5	40-130	3.92	25	†
n-Propylbenzene	9.44	1.0	µg/L	10.0		94.4	70-130	8.62	25	
Styrene	9.38	1.0	µg/L	10.0		93.8	70-130	8.67	25	
1,1,1,2-Tetrachloroethane	9.31	1.0	µg/L	10.0		93.1	70-130	9.22	25	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130	4.11	25	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	5.51	25	
Tetrahydrofuran	10.6	10	µg/L	10.0		106	70-130	5.60	25	
Toluene	9.45	1.0	µg/L	10.0		94.5	70-130	6.65	25	
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130	4.60	25	
1,2,4-Trichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130	7.20	25	
1,3,5-Trichlorobenzene	9.76	1.0	µg/L	10.0		97.6	70-130	5.67	25	
1,1,1-Trichloroethane	9.36	1.0	µg/L	10.0		93.6	70-130	8.69	25	
1,1,2-Trichloroethane	9.73	1.0	µg/L	10.0		97.3	70-130	3.73	25	
Trichloroethylene	9.57	1.0	µg/L	10.0		95.7	70-130	5.59	25	
Trichlorofluoromethane (Freon 11)	9.58	2.0	µg/L	10.0		95.8	70-130	1.04	25	
1,2,3-Trichloropropane	9.70	2.0	µg/L	10.0		97.0	70-130	6.10	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.0		113	70-130	1.52	25	
1,2,4-Trimethylbenzene	8.45	1.0	µg/L	10.0		84.5	70-130	4.28	25	
1,3,5-Trimethylbenzene	8.96	1.0	µg/L	10.0		89.6	70-130	8.55	25	
Vinyl Chloride	8.19	2.0	µg/L	10.0		81.9	40-160	3.13	25	†
m+p Xylene	18.8	2.0	µg/L	20.0		94.2	70-130	7.46	25	
o-Xylene	9.42	1.0	µg/L	10.0		94.2	70-130	10.2	25	
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		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 B230124 - SW-846 3510C										
Blank (B230124-BLK1)				Prepared: 05/08/19 Analyzed: 05/09/19						
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0901*		mg/L	0.100		90.1	40-140			
LCS (B230124-BS1)				Prepared: 05/08/19 Analyzed: 05/09/19						
TPH (C9-C36)	0.827	0.20	mg/L	1.00		82.7	40-140			
Surrogate: 2-Fluorobiphenyl	*0.0914*		mg/L	0.100		91.4	40-140			
LCS Dup (B230124-BSD1)				Prepared: 05/08/19 Analyzed: 05/09/19						
TPH (C9-C36)	0.854	0.20	mg/L	1.00		85.4	40-140	3.29	25	
Surrogate: 2-Fluorobiphenyl	*0.0991*		mg/L	0.100		99.1	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 B231098 - SW-846 3005A Dissolved										
Blank (B231098-BLK1)				Prepared: 05/17/19 Analyzed: 05/20/19						
Lead	ND	0.50	µg/L							
LCS (B231098-BS1)				Prepared: 05/17/19 Analyzed: 05/20/19						
Lead	41.7	0.50	µg/L	40.0		104	80-120			

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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-03	Elevated reporting limit due to 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-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-36	Initial calibration verification (ICV) 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	Sample fingerprint does not match standard exactly.

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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 8260C 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	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)	NY
1,2-Dibromoethane (EDB)	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	NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	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	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)	NY

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
RJM
Phone: 413-525-2332
Fax: 413-525-6405
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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

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:	130274
Project Manager:	Catherine Joe
Con-Test Bid:	PO 835493
Invoice Recipient:	Catherine Joe
Sampled By:	

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	# of Containers	[2] Preservation Code	[3] Container Code	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
1	MW-207S-20190501	5/1/19	0745		✓	GW	U	3	H	V	3		
2	MW-207D-20190501	5/1/19	0800		✓	GW	U	3	H	V	3		
3	MW-202S-20190501	5/1/19	0840		✓	GW	U	3	H	V	3		
4	MW-202D-20190501	5/1/19	0900		✓	GW	U	3	H	V	3		
5	MW-101D-20190501	5/1/19	0930		✓	GW	U	3	H	V	3		
6	MW-101S-20190501	5/1/19	1000		✓	GW	U	3	H	V	3		
7	MW-101S-20190501D	5/1/19	1000		✓	GW	U	3	H	V	3		
8	MW-201D-20190501	5/1/19	1040		✓	GW	U	3	H	V	3		
9	MW-216D-20190501	5/1/19	1130		✓	GW	U	3	H	V	3		
10	MW-216S-20190501	5/1/19	1200		✓	GW	U	3	H	V	3		

ANALYSIS REQUESTED

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: 5/3/19 0900
Received by: (signature)	Date/Time: 5/6/19 1545
Relinquished by: (signature)	Date/Time: 5/6/19 1835
Received by: (signature) 4.9	Date/Time: 5/6/19 1835
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

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

Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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Phone:	617-794-1767
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Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead	# of Containers	[2] Preservation Code	[3] Container Code
								3			3	H	V
11	MW-217D-20190501	5/1/19	1240		✓	GW	U	3					
12	MW-217S-20190501	5/1/19	1340		✓	GW	U	3					
13	CW-06-20190501	5/1/19	1400		✓	GW	U		2				
14	CW-06-20190501FD	5/1/19	1415		✓	GW	U		2				
15	CW-01-20190501	5/1/19	1500		✓	GW	U	3					
16	CW-02-20190501	5/1/19	1540		✓	GW	U	3					
17	MW-112-20190502	5/2/19	0800		✓	GW	U	3					
18	MW-209D-20190502	5/2/19	0700		✓	GW	U	3					
19	MW-218S-20190502	5/2/19	0900		✓	GW	U	3					
20	MW-218D-20190502	5/2/19	1000		✓	GW	U	3					

ANALYSIS REQUESTED

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

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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)

Relinquished by: (signature)	Date/Time: 5/3/19 0900
Received by: (signature)	Date/Time: 5/6/19 1545
Relinquished by: (signature)	Date/Time: 5/6/19 1835
Received by: (signature)	Date/Time: 5/6/19 1835
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

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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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:	130274
Project Manager:	Catherine Joe
Con-Test Bid:	PO 835493
Invoice Recipient:	Catherine Joe
Sampled By:	

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	3 H V	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
21	GZA-3-20190502	5/2/19	1120		G	GW	U		3		1
22	GZA-3-20190502FD	5/2/19	1130		G	GW	U				1
23	MW-109D-20190502	5/2/19	1230		G	GW	U		3		1
24	MW-116D-20190502	5/2/19	1330		G	GW	U		3		1
25	MW-116S-20190502	5/2/19	1430		G	GW	U		3		
26	VOC TRIP BLANK	Examine # 1904207				W			4		

# of Containers
[2] Preservation Code
[3] Container Code

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

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Received by: (signature)	Date/Time: 5/6/19 1835	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Aptim

Received By LR Date 5-6-19 Time 1835

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 4.9

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

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

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? T On COC? T

Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.	
HCL-	70	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	3	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	3	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: