



APTIM
150 Royall Street
Canton, MA 02021
Fax: +1 617 589 1008
www.Aptim.com

January 9, 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: June 2018 through November 2018 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 ($\mu\text{g/L}$). This area was treated using in-situ applications of sodium permanganate several years ago. **Figure 2** shows the most recent treatment area. Since 2013, a groundwater extraction and treatment system has operated at the site to mitigate the flow of impacted groundwater and improve overall site groundwater quality.

This status report describes groundwater monitoring activities conducted at the site by APTIM. This report includes results of groundwater sampling and analysis conducted in August and November of 2018.

FIELD ACTIVITIES

Limited VOC Sampling Activities August and November 2018

Limited groundwater gauging and sampling was conducted on August 22, 2018 and November 20 and 21, 2018. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for the gauging of these wells are included in **Table 2**.

Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on August 22 and November 21, 2018. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities November 2018

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on November 20 and 21, 2018.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on November 20 and 21, 2018. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Field parameter and groundwater elevation results are presented in **Tables 1** and **2**, respectively.

Semi-Annual Groundwater Sampling

On November 20 and 21, 2018 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 August 22, November 20 and 21, 2018 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 2300 µg/L, MW-218D at 1100 µg/L on November 20, 2018 and CW-01 at 740 µg/L on November 21, 2018 .

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that there were no exceedances of the compliance standards at the Adelaide Avenue wells. (Note that due to sample dilution by the laboratory, the analytical reporting limit for vinyl chloride for well MW-209D was above the compound specific compliance standard for the sampling result collected.)

FUTURE ACTIVITIES

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

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

Respectfully submitted,
Aptim Environmental & Infrastructure, Inc.



Catherine Joe
Project Manager

Attachments

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

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 January 8, 2019, certify that the information contained in this report is complete and accurate to the best of my knowledge.

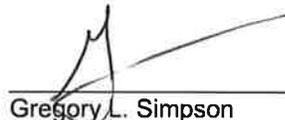


Catherine Joe
Project Manager

1/9/19
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

1/9/19
Date

TABLES

Table 1
Summary Field Parameters
June 2018 - November 2018

Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	pH unit	Specific Conductivity mS/cm	Temperature C°
MW-101D	11/20/2018	0.25	29.3	5.92	0.0248	10.6
MW-101S	11/20/2018	0.96	-36.4	6.15	2.235	9.3
MW-112	11/21/2018	1.77	112.3	5.83	0.775	10.4
MW-116D	11/21/2018	5.11	188.3	5.79	0.225	10.8
MW-116S	11/21/2018	6.22	205.9	6.44	0.305	10.3
MW-201D	11/20/2018	0.31	94.7	7.05	0.0605	10.7
MW-202D	11/20/2018	0.6	117	5.88	0.0481	10.8
MW-202S	11/20/2018	0.25	105.8	5.91	0.0662	11.01
MW-207D	11/20/2018	0.18	83.5	6.28	0.0381	10.6
MW-207S	11/20/2018	0.92	69.1	6.65	0.0552	10.9
MW-209D	11/20/2018	1.58	119.6	5.94	0.0863	10.8
MW-216D	11/20/2018	1.15	-102.9	6.57	0.809	10.7
MW-216S	11/20/2018	4.88	110.4	6.38	1.477	11
MW-217D	11/21/2018	3.45	63.4	6.43	0.2052	10.9
MW-217S	11/21/2018	1.52	5.7	6.5	1.603	11.1
MW-218D	11/20/2018	2.02	116	5.98	0.1685	10.7
MW-218S	11/20/2018	3.25	182.3	5.36	0.9832	11.2

Notes:

C° = degrees Celsius

mS/cm = millisiemens per centimeter

mg/L = milligrams per liter

mV = milli volts

TABLE 2
GROUNDWATER ELEVATION DATA
(June 2018 - November 2018)
Former Gorham Manufacturing Facility
Providence, Rhode Island

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevations (Feet)	Notes
CW-01	11/21/2018	99.52	26.62	72.90	DTB = 54.22'
CW-02	11/21/2018	98.86	23.74	75.12	DTB = 54.35'
CW-06	11/21/2018	99.52	23.62	75.90	DTB = 33.15'
GZA-3	11/21/2018	NA	16.02	NA	DTB = 21.99'
MW-101D	11/20/2018	98.91	23.90	75.01	DTB = 45.86'
MW-101S	11/20/2018	98.90	23.80	75.10	DTB = 28.27'
MW-109D	11/21/2018	NA	17.77	NA	DTB = 74.62'
MW-112	8/22/2018	100.63	25.77	74.86	DTB = 34.27'
	11/21/2018	100.63	24.67	75.96	DTB = 34.71'
MW-116D	8/22/2018	98.92	25.20	73.72	DTB = 44.31'
	11/21/2018	98.92	23.91	75.01	DTB = 39.31'
MW-116S	8/22/2018	99.40	25.71	73.69	DTB = 32.55'
	11/21/2018	99.40	24.35	75.05	DTB = 29.60'
MW-201D	11/20/2018	98.80	23.82	74.98	DTB = 47.33'
MW-202D	11/20/2018	98.17	22.81	75.36	DTB = 46.91'
MW-202S	11/20/2018	98.06	22.95	75.11	DTB = 37.80'
MW-207D	11/20/2018	98.18	23.15	75.03	DTB = 50.61'
MW-207S	11/20/2018	98.28	23.05	75.23	DTB = 37.35'
MW-209D	11/20/2018	99.90	25.37	74.53	DTB = 62.11'
MW-216D	11/20/2018	98.69	24.50	74.19	DTB = 44.17'
MW-216S	11/20/2018	99.58	24.38	75.20	DTB = 28.68'
MW-217D	11/21/2018	98.65	23.64	75.01	DTB = 46.60'
MW-217S	11/21/2018	98.71	23.62	75.09	DTB = 26.31'
MW-218D	11/20/2018	99.67	24.72	74.95	DTB = 46.21'
MW-218S	11/20/2018	99.61	24.59	75.02	DTB = 29.30'
MW-220S	11/21/2018	99.41	23.19	76.22	DTB = 31.75'

Notes:

Feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2018 - November 2018

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	CW-01	CW-02	CW-06		GZA-3	GZA-3	MW-101D	MW-101S		MW-109D	MW-112	MW-112
	Sample Date	11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/21/2018	11/20/2018	11/20/2018	11/20/2018	11/21/2018	8/22/2018	11/21/2018
	Sample Purpose	N	N	N	FD	N	FD	N	N	FD	N	N	N
Parameter	Units	Result	Result	Result									
VOCs													
1,1-Dichloroethene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	µg/L	60	< 1	---	---	< 1	---	5.9	< 1	< 1	< 1	< 1	< 1
Methyl tert-butyl ether	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	µg/L	< 50	< 5	---	---	< 5	---	< 5	< 5	< 5	< 5	< 2	< 5
Tetrachloroethene	µg/L	< 10	< 1	---	---	< 1	---	< 1	3.8	2.8	< 1	63	47
trans-1,2-Dichloroethene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	µg/L	740	< 1	---	---	< 1	---	< 1	< 1	< 1	1.4	8	11
Vinyl chloride	µg/L	< 20	< 2	---	---	2.2	---	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	µg/L	< 10	< 1	---	---	< 1	---	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (total)	µg/L	< 20	< 2	---	---	< 2	---	< 2	< 2	< 2	< 2	< 2	< 2
TPH													
TPH	mg/L	---	---	9.4	9.0	---	---	---	---	---	---	---	---
Lead													
Lead	µg/L	---	---	---	---	< 1	< 1	---	---	---	< 1	---	---

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2018 - November 2018

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-116D	MW-116D	MW-116S	MW-116S	MW-201D	MW-202D	MW-202S	MW-207D	MW-207S	MW-209D	MW-216D	MW-216S
	Sample Date	8/22/2018	11/21/2018	8/22/2018	11/21/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
	Sample Purpose	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs													
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	4.3	<1	<2
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	<2	<1	5.1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	<2	<1	2.1
cis-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	24	<1	75
Methyl tert-butyl ether	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	2.6	<1	<2
Naphthalene	µg/L	<2	<5	<2	<5	<250	<5	<5	<5	<5	<10	<5	16
Tetrachloroethene	µg/L	<1	<1	<1	<1	2300	2.1	5	<1	<1	130	<1	<2
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	2.3	<1	<2
Trichloroethene	µg/L	<1	<1	<1	<1	240	<1	<1	<1	<1	120	<1	<2
Vinyl chloride	µg/L	<2	<2	<2	<2	<100	<2	<2	<2	<2	<4	<2	<4
o-Xylene	µg/L	<1	<1	<1	<1	<50	<1	<1	<1	<1	<2	<1	4.8
Xylene (total)	µg/L	<2	<2	<2	<2	<100	<2	<2	<2	<2	<4	<2	5
TPH													
TPH	mg/L	---	---	---	---	---	---	---	---	---	---	---	---
Lead													
Lead	µg/L	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2018 - November 2018

Former Gorham Manufacturing Facility
 Providence, Rhode Island

	Location Code	MW-217D	MW-217S	MW-218D	MW-218S
	Sample Date	11/21/2018	11/21/2018	11/20/2018	11/20/2018
	Sample Purpose	N	N	N	N
Parameter	Units	Result	Result	Result	Result
VOCs					
1,1-Dichloroethene	µg/L	< 1	< 1	< 20	< 1
1,2,4-Trimethylbenzene	µg/L	< 1	< 1	< 20	< 1
1,3,5-Trimethylbenzene	µg/L	< 1	< 1	< 20	< 1
cis-1,2-Dichloroethene	µg/L	1.3	< 1	< 20	< 1
Methyl tert-butyl ether	µg/L	< 1	< 1	< 20	< 1
Naphthalene	µg/L	< 5	< 5	< 100	< 5
Tetrachloroethene	µg/L	< 1	7.5	1100	37
trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 20	< 1
Trichloroethene	µg/L	2.6	< 1	25	< 1
Vinyl chloride	µg/L	< 2	< 2	< 40	< 2
o-Xylene	µg/L	< 1	< 1	< 20	< 1
Xylene (total)	µg/L	< 2	< 2	< 40	< 2
TPH					
TPH	mg/L	---	---	---	---
Lead					
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
June 2018 - November 2018

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	11/21/2018	11/21/2018	11/21/2018	Standard ¹
CONSTITUENT	Primary	Duplicate 1	Primary	
Metals (mg/L)				
Lead	<0.0010	<0.0010	<0.0010	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	<1.0	---	<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	2.2	---	<2.0	1,200

TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	11/21/2018	11/21/2018	Standard ¹
CONSTITUENT	Primary	Duplicate	
TPH (mg/L)			
TPH	9.4	9.0	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	11/21/2018	11/21/2018	Standard ²
CONSTITUENT	Primary	Primary	
VOCs (µg/L)			
1,1-Dichloroethane	<10	<1.0	120,000
1,1-Dichloroethene	<10	<1.0	23,000
cis-1,2-Dichloroethene	60	<1.0	69,000
trans-1,2-Dichloroethene	<10	<1.0	79,000
Tetrachloroethene	<10	<1.0	NS
Trichloroethene	740	<1.0	87,000

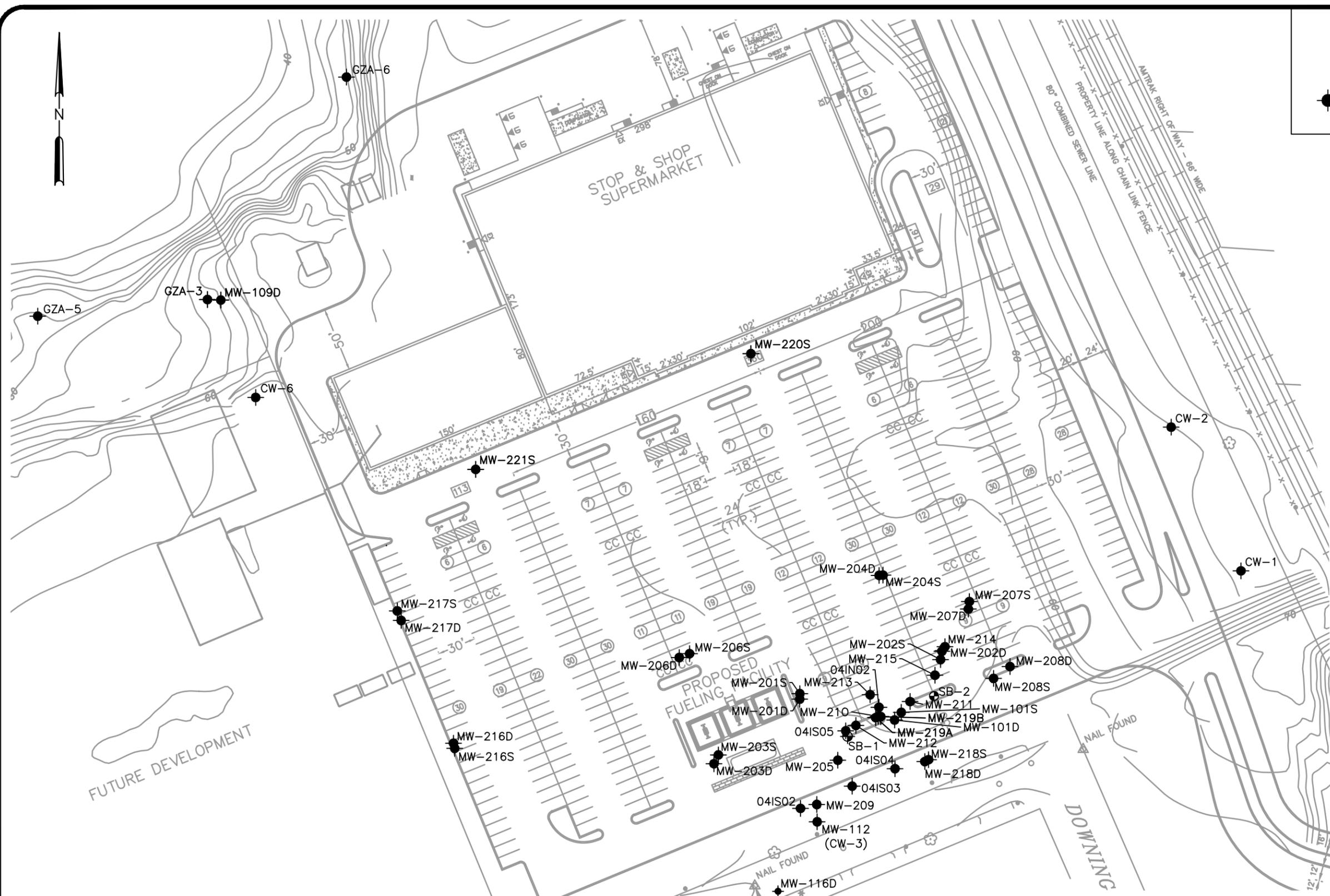
Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	8/22/2018	11/21/2018	11/20/2018	11/20/2018	Standard ³
CONSTITUENT	Primary	Primary	Primary	Primary	
VOCs (µg/L)					
1,1-Dichloroethane	<1.0	<1.0	<2.0	<1.0	2,400
1,1-Dichloroethene	<1.0	<1.0	4.3	<1.0	7
cis-1,2-Dichloroethene	<1.0	<1.0	24	<1.0	1,900
Methyl tert-butyl ether	<1.0	<1.0	2.6	<1.0	5,000
Tetrachloroethene	63	47	130	37	150
Trichloroethene	8	11	120	<1.0	540
Vinyl chloride	<2.0	<2.0	<4.0	<2.0	2

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



LEGEND
 ● MW-101S MONITORING WELL



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

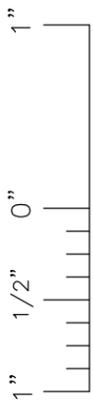
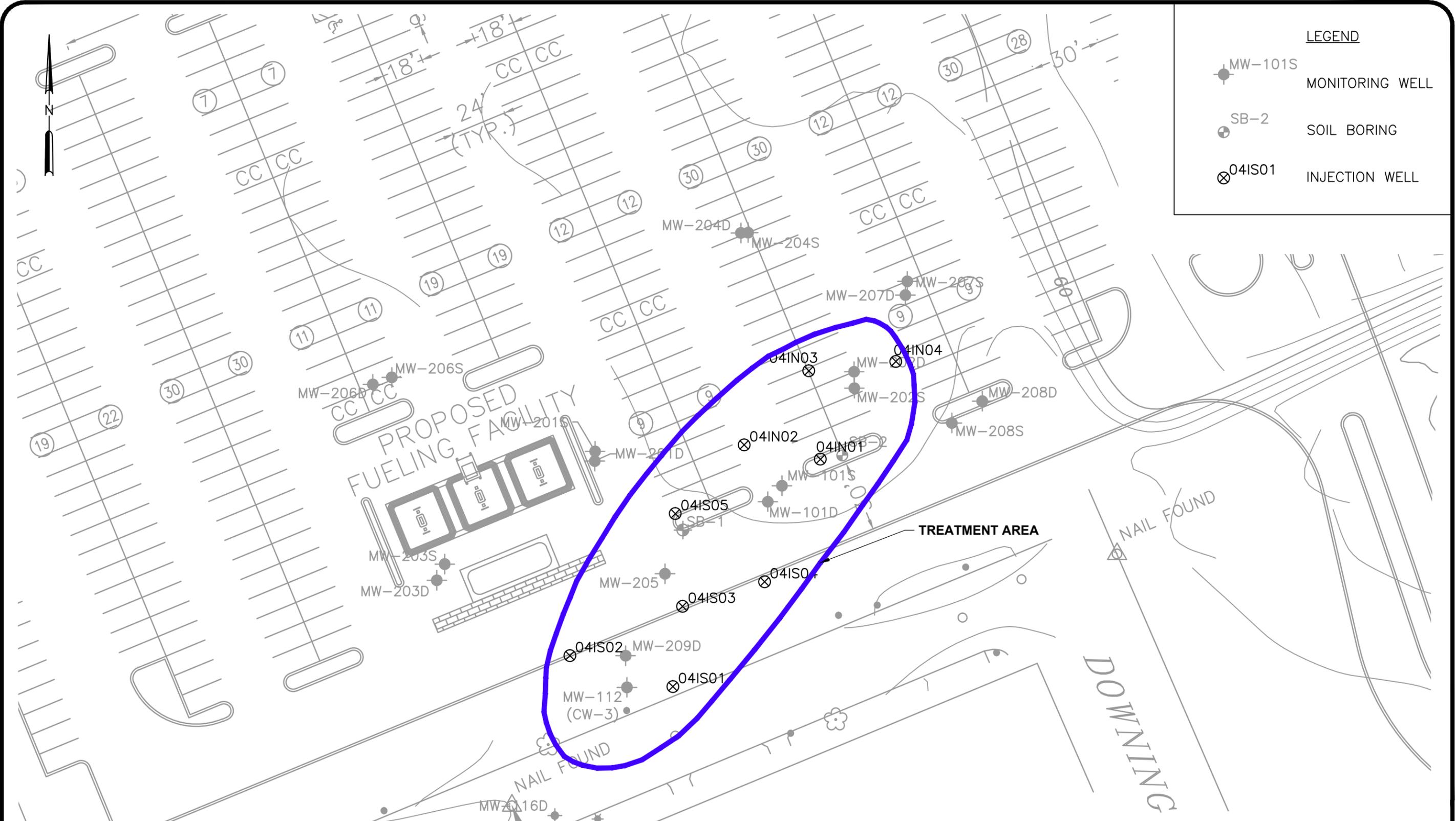


DATE	4/2/13
DWN	J.O'D.
APP	
REV	
PROJECT NO.	101960

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

LEGEND

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



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

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

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

ATTACHMENT A

LABORATORY REPORTS

September 7, 2018

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: 18H1304

Enclosed are results of analyses for samples received by the laboratory on August 27, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Jessica Hoffman", is displayed on a light blue rectangular background. The signature is written in a cursive, flowing style.

Jessica L. Hoffman
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	6
18H1304-01	6
18H1304-02	8
18H1304-03	10
Sample Preparation Information	12
QC Data	13
Volatile Organic Compounds by GC/MS	13
B211338	13
Flag/Qualifier Summary	18
Certifications	19
Chain of Custody/Sample Receipt	22

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: 9/7/2018

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1304

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	18H1304-01	Ground Water		SW-846 8260C	
MW-116D	18H1304-02	Ground Water		SW-846 8260C	
MW-116S	18H1304-03	Ground Water		SW-846 8260C	

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-02**

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

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

B211338-BS1, B211338-BSD1, S026847-CCV1

L-07A

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

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

B211338-BS1

R-05

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

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

18H1304-01[MW-112], 18H1304-02[MW-116D], 18H1304-03[MW-116S], B211338-BLK1, B211338-BS1, B211338-BSD1, S026847-CCV1

V-06

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

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

B211338-BS1, B211338-BSD1, S026847-CCV1

tert-Butyl Alcohol (TBA)

B211338-BS1, B211338-BSD1, S026847-CCV1

V-20

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

Analyte & Samples(s) Qualified:**2-Hexanone (MBK)**

B211338-BS1, B211338-BSD1, S026847-CCV1

Bromomethane

B211338-BS1, B211338-BSD1, S026847-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:**Methyl Acetate**

B211338-BS1, B211338-BSD1, S026847-CCV1

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

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

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

Lisa A. Worthington
Project Manager

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: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-112

Sampled: 8/22/2018 12:15

Sample ID: 18H1304-01

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	R-05	SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-112

Sampled: 8/22/2018 12:15

Sample ID: 18H1304-01

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	8/29/18	8/30/18 18:36	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Tetrachloroethylene	63	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Trichloroethylene	8.0	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 18:36	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		98.4	70-130					8/30/18 18:36	
Toluene-d8		100	70-130					8/30/18 18:36	
4-Bromofluorobenzene		100	70-130					8/30/18 18:36	

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: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-116D

Sampled: 8/22/2018 13:00

Sample ID: 18H1304-02

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	R-05	SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-116D

Sampled: 8/22/2018 13:00

Sample ID: 18H1304-02

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	8/29/18	8/30/18 13:59	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 13:59	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	101	70-130	8/30/18 13:59						
Toluene-d8	98.2	70-130	8/30/18 13:59						
4-Bromofluorobenzene	101	70-130	8/30/18 13:59						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-116S

Sampled: 8/22/2018 13:50

Sample ID: 18H1304-03

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	R-05	SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18H1304

Date Received: 8/27/2018

Field Sample #: MW-116S

Sampled: 8/22/2018 13:50

Sample ID: 18H1304-03

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	8/29/18	8/30/18 14:30	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/29/18	8/30/18 14:30	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	100	70-130						8/30/18 14:30	
Toluene-d8	99.9	70-130						8/30/18 14:30	
4-Bromofluorobenzene	100	70-130						8/30/18 14:30	

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
18H1304-01 [MW-112]	B211338	5	5.00	08/29/18
18H1304-02 [MW-116D]	B211338	5	5.00	08/29/18
18H1304-03 [MW-116S]	B211338	5	5.00	08/29/18

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 B211338 - SW-846 5030B

Blank (B211338-BLK1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acetone	ND	50	µg/L							R-05
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	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211338 - SW-846 5030B

Blank (B211338-BLK1)

Prepared: 08/29/18 Analyzed: 08/30/18

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	5.0	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	24.7		µg/L	25.0		99.0	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

LCS (B211338-BS1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acetone	186	50	µg/L	100		186 *	70-160			L-07A, R-05 †
Acrylonitrile	11.5	5.0	µg/L	10.0		115	70-130			
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116	70-130			
Benzene	11.1	1.0	µg/L	10.0		111	70-130			
Bromobenzene	11.1	1.0	µg/L	10.0		111	70-130			
Bromochloromethane	12.0	1.0	µg/L	10.0		120	70-130			
Bromodichloromethane	11.4	0.50	µg/L	10.0		114	70-130			
Bromoform	11.7	1.0	µg/L	10.0		117	70-130			
Bromomethane	6.43	2.0	µg/L	10.0		64.3	40-160		V-20	†
2-Butanone (MEK)	146	20	µg/L	100		146	40-160			†
tert-Butyl Alcohol (TBA)	132	20	µg/L	100		132	40-160		V-06	†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
sec-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130			
Carbon Disulfide	12.2	4.0	µg/L	10.0		122	70-130			
Carbon Tetrachloride	11.2	5.0	µg/L	10.0		112	70-130			
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
Chlorodibromomethane	12.0	0.50	µg/L	10.0		120	70-130			
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130			
Chloroform	11.2	2.0	µg/L	10.0		112	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211338 - SW-846 5030B										
LCS (B211338-BS1)										
					Prepared: 08/29/18 Analyzed: 08/30/18					
Chloromethane	9.96	2.0	µg/L	10.0		99.6	40-160			†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.0	5.0	µg/L	10.0		110	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130			
Dibromomethane	11.8	1.0	µg/L	10.0		118	70-130			
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
trans-1,4-Dichloro-2-butene	11.2	2.0	µg/L	10.0		112	70-130			
Dichlorodifluoromethane (Freon 12)	9.69	2.0	µg/L	10.0		96.9	40-160			†
1,1-Dichloroethane	11.9	1.0	µg/L	10.0		119	70-130			
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130			
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114	70-130			
2,2-Dichloropropane	12.3	1.0	µg/L	10.0		123	40-130			†
1,1-Dichloropropene	10.9	2.0	µg/L	10.0		109	70-130			
cis-1,3-Dichloropropene	12.5	0.50	µg/L	10.0		125	70-130			
trans-1,3-Dichloropropene	12.9	0.50	µg/L	10.0		129	70-130			
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130			
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130			
1,4-Dioxane	121	50	µg/L	100		121	40-130			V-06 †
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Hexachlorobutadiene	11.7	1.0	µg/L	10.0		117	70-130			
2-Hexanone (MBK)	132	10	µg/L	100		132	70-160			V-20 †
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	38.1	1.0	µg/L	10.0		381 *	70-130			L-02, V-36
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130			
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130			
4-Methyl-2-pentanone (MIBK)	116	10	µg/L	100		116	70-160			†
Naphthalene	9.33	2.0	µg/L	10.0		93.3	40-130			†
n-Propylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Styrene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Tetrachloroethylene	12.1	1.0	µg/L	10.0		121	70-130			
Tetrahydrofuran	12.6	10	µg/L	10.0		126	70-130			
Toluene	11.3	1.0	µg/L	10.0		113	70-130			
1,2,3-Trichlorobenzene	9.67	5.0	µg/L	10.0		96.7	70-130			
1,2,4-Trichlorobenzene	9.93	5.0	µg/L	10.0		99.3	70-130			
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.0		116	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B211338 - SW-846 5030B

LCS (B211338-BS1)

Prepared: 08/29/18 Analyzed: 08/30/18

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	10.5	1.0	µg/L	10.0		105	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160			†
m+p Xylene	21.8	2.0	µg/L	20.0		109	70-130			
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.8	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.0		105	70-130			

LCS Dup (B211338-BSD1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acetone	129	50	µg/L	100		129	70-160	36.1 *	25	R-05	†
Acrylonitrile	11.2	5.0	µg/L	10.0		112	70-130	3.00	25		
tert-Amyl Methyl Ether (TAME)	11.3	0.50	µg/L	10.0		113	70-130	2.28	25		
Benzene	11.0	1.0	µg/L	10.0		110	70-130	1.72	25		
Bromobenzene	10.9	1.0	µg/L	10.0		109	70-130	2.19	25		
Bromochloromethane	12.5	1.0	µg/L	10.0		125	70-130	4.16	25		
Bromodichloromethane	11.3	0.50	µg/L	10.0		113	70-130	0.794	25		
Bromoform	11.8	1.0	µg/L	10.0		118	70-130	1.10	25		
Bromomethane	7.32	2.0	µg/L	10.0		73.2	40-160	12.9	25	V-20	†
2-Butanone (MEK)	119	20	µg/L	100		119	40-160	19.9	25		†
tert-Butyl Alcohol (TBA)	127	20	µg/L	100		127	40-160	4.03	25	V-06	†
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	2.57	25		
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	5.28	25		
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.27	25		
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.0		109	70-130	0.183	25		
Carbon Disulfide	11.6	4.0	µg/L	10.0		116	70-130	5.06	25		
Carbon Tetrachloride	11.3	5.0	µg/L	10.0		113	70-130	1.07	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.921	25		
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121	70-130	0.499	25		
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130	5.70	25		
Chloroform	11.2	2.0	µg/L	10.0		112	70-130	0.178	25		
Chloromethane	10.1	2.0	µg/L	10.0		101	40-160	1.20	25		†
2-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130	1.06	25		
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	0.628	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130	7.55	25		
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	1.75	25		
Dibromomethane	11.6	1.0	µg/L	10.0		116	70-130	1.37	25		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.82	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.34	25		
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.684	25		
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109	70-130	2.72	25		
Dichlorodifluoromethane (Freon 12)	9.18	2.0	µg/L	10.0		91.8	40-160	5.41	25		†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130	4.48	25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	1.79	25		
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	4.12	25		
cis-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	4.28	25		
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	0.786	25		
1,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130	1.60	25		
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130	4.77	25		
2,2-Dichloropropane	12.0	1.0	µg/L	10.0		120	40-130	2.71	25		†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111	70-130	1.45	25		

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 B211338 - SW-846 5030B										
LCS Dup (B211338-BSD1)										
					Prepared: 08/29/18 Analyzed: 08/30/18					
cis-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130	5.94	25	
trans-1,3-Dichloropropene	12.9	0.50	µg/L	10.0		129	70-130	0.465	25	
Diethyl Ether	10.6	2.0	µg/L	10.0		106	70-130	6.29	25	
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107	70-130	3.48	25	
1,4-Dioxane	114	50	µg/L	100		114	40-130	6.48	50	V-06 † ‡
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.915	25	
Hexachlorobutadiene	12.0	1.0	µg/L	10.0		120	70-130	2.45	25	
2-Hexanone (MBK)	119	10	µg/L	100		119	70-160	10.7	25	V-20 †
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110	70-130	2.26	25	
p-Isopropyltoluene (p-Cymene)	9.82	1.0	µg/L	10.0		98.2	70-130	3.70	25	
Methyl Acetate	37.8	1.0	µg/L	10.0		378 *	70-130	0.765	25	L-02, V-36
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130	0.0856	25	
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108	70-130	0.555	25	
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130	2.05	25	
4-Methyl-2-pentanone (MIBK)	116	10	µg/L	100		116	70-160	0.216	25	†
Naphthalene	9.26	2.0	µg/L	10.0		92.6	40-130	0.753	25	†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.18	25	
Styrene	11.1	1.0	µg/L	10.0		111	70-130	0.361	25	
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114	70-130	0.263	25	
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130	5.81	25	
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130	2.28	25	
Tetrahydrofuran	12.2	10	µg/L	10.0		122	70-130	3.23	25	
Toluene	11.1	1.0	µg/L	10.0		111	70-130	2.23	25	
1,2,3-Trichlorobenzene	9.77	5.0	µg/L	10.0		97.7	70-130	1.03	25	
1,2,4-Trichlorobenzene	9.31	5.0	µg/L	10.0		93.1	70-130	6.44	25	
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	7.81	25	
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	2.72	25	
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	0.629	25	
Trichloroethylene	12.0	1.0	µg/L	10.0		120	70-130	4.62	25	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	2.63	25	
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.0		118	70-130	2.31	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130	5.15	25	
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	3.59	25	
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.54	25	
Vinyl Chloride	9.98	2.0	µg/L	10.0		99.8	40-160	2.18	25	†
m+p Xylene	21.5	2.0	µg/L	20.0		107	70-130	1.71	25	
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130	3.45	25	
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.7		µg/L	25.0		107	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	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 Public 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	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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 Adria Ekv.

Received By E SO Date 8-27-18 Time 16:45

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 # 553 Actual Temp - 3.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

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

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

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

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

Were trip blanks received? F On COC? F

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

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

Unused Media

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

Comments:

December 7, 2018

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: 18K1113

Enclosed are results of analyses for samples received by the laboratory on November 27, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	8
18K1113-01	8
18K1113-02	10
18K1113-03	12
18K1113-04	14
18K1113-05	16
18K1113-06	18
18K1113-07	20
18K1113-08	22
18K1113-09	24
18K1113-10	26
18K1113-11	28
18K1113-12	30
18K1113-13	32
18K1113-14	34
18K1113-15	37
18K1113-16	40
18K1113-17	41
18K1113-18	42
18K1113-19	43
18K1113-20	45
18K1113-21	47
18K1113-22	49

Table of Contents (continued)

18K1113-23	51
18K1113-24	53
18K1113-25	55
Sample Preparation Information	57
QC Data	58
Volatile Organic Compounds by GC/MS	58
B218293	58
B218294	62
Metals Analyses (Dissolved)	68
B218346	68
Flag/Qualifier Summary	69
Certifications	70
Chain of Custody/Sample Receipt	73

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: 12/7/2018

PURCHASE ORDER NUMBER: 835493

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K1113

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-112018	18K1113-01	Ground Water		SW-846 8260C	
MW-207D-112018	18K1113-02	Ground Water		SW-846 8260C	
MW-202S-112018	18K1113-03	Ground Water		SW-846 8260C	
MW-202D-112018	18K1113-04	Ground Water		SW-846 8260C	
MW-101S-112018	18K1113-05	Ground Water		SW-846 8260C	
MW-101S-FD-112018	18K1113-06	Ground Water		SW-846 8260C	
MW-101D-112018	18K1113-07	Ground Water		SW-846 8260C	
MW-201D-112018	18K1113-08	Ground Water		SW-846 8260C	
MW-218D-112018	18K1113-09	Ground Water		SW-846 8260C	
MW-218S-112018	18K1113-10	Ground Water		SW-846 8260C	
MW-209D-112018	18K1113-11	Ground Water		SW-846 8260C	
MW-216S-112018	18K1113-12	Ground Water		SW-846 8260C	
MW-216D-112018	18K1113-13	Ground Water		SW-846 8260C	
MW-109D-112018	18K1113-14	Ground Water		SW-846 6020B	
				SW-846 8260C	
GZA-3-112018	18K1113-15	Ground Water		SW-846 6020B	
				SW-846 8260C	
GZA-3-112018-FD	18K1113-16	Ground Water		SW-846 6020B	
CW-06-112018	18K1113-17	Ground Water		SW-846 8015C	
CW-06-112018-FD	18K1113-18	Ground Water		SW-846 8015C	
MW-217D-112018	18K1113-19	Ground Water		SW-846 8260C	
MW-217S-112018	18K1113-20	Ground Water		SW-846 8260C	
MW-112-112018	18K1113-21	Ground Water		SW-846 8260C	
CW-01-112018	18K1113-22	Ground Water		SW-846 8260C	
CW-02-112018	18K1113-23	Ground Water		SW-846 8260C	
MW-116S-112018	18K1113-24	Ground Water		SW-846 8260C	
MW-116D-112018	18K1113-25	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8260C

Qualifications:**DL-01**

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

Analyte & Samples(s) Qualified:

18K1113-12[MW-216S-112018]

L-02

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

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

B218293-BS1, B218293-BSD1, S029915-CCV1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

18K1113-08[MW-201D-112018], 18K1113-09[MW-218D-112018], 18K1113-11[MW-209D-112018], 18K1113-22[CW-01-112018]

V-05

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

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

18K1113-22[CW-01-112018], 18K1113-23[CW-02-112018], 18K1113-24[MW-116S-112018], 18K1113-25[MW-116D-112018], B218294-BLK1, B218294-BS1, B218294-BSD1, S029916-CCV1

tert-Butyl Alcohol (TBA)

18K1113-22[CW-01-112018], 18K1113-23[CW-02-112018], 18K1113-24[MW-116S-112018], 18K1113-25[MW-116D-112018], B218294-BLK1, B218294-BS1, B218294-BSD1, S029916-CCV1

trans-1,4-Dichloro-2-butene

18K1113-22[CW-01-112018], 18K1113-23[CW-02-112018], 18K1113-24[MW-116S-112018], 18K1113-25[MW-116D-112018], B218294-BLK1, B218294-BS1, B218294-BSD1, S029916-CCV1

V-06

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

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

B218294-BS1, B218294-BSD1, S029916-CCV1

V-20

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

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

B218293-BS1, B218293-BSD1, S029915-CCV1

Methyl Acetate

B218293-BS1, B218293-BSD1, B218294-BS1, B218294-BSD1, S029915-CCV1, S029916-CCV1

Methyl Cyclohexane

B218293-BS1, B218293-BSD1, S029915-CCV1

V-35

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

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

B218294-BS1, B218294-BSD1, S029916-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:

Acetone

B218293-BS1, B218293-BSD1, S029915-CCV1

Carbon Disulfide

B218293-BS1, B218293-BSD1, B218294-BS1, B218294-BSD1, S029915-CCV1, S029916-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

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-207S-112018

Sampled: 11/20/2018 06:30

Sample ID: 18K1113-01

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	12/3/18	12/3/18 10:24	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-207S-112018

Sampled: 11/20/2018 06:30

Sample ID: 18K1113-01

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	12/3/18	12/3/18 10:24	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:24	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.4	70-130					12/3/18	10:24	
Toluene-d8	99.9	70-130					12/3/18	10:24	
4-Bromofluorobenzene	98.9	70-130					12/3/18	10:24	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-207D-112018

Sampled: 11/20/2018 07:00

Sample ID: 18K1113-02

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	12/3/18	12/3/18 10:55	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-207D-112018

Sampled: 11/20/2018 07:00

Sample ID: 18K1113-02

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	12/3/18	12/3/18 10:55	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 10:55	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		81.8	70-130					12/3/18 10:55	
Toluene-d8		95.7	70-130					12/3/18 10:55	
4-Bromofluorobenzene		95.6	70-130					12/3/18 10:55	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-202S-112018

Sampled: 11/20/2018 07:30

Sample ID: 18K1113-03

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	12/3/18	12/3/18 11:26	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-202S-112018

Sampled: 11/20/2018 07:30

Sample ID: 18K1113-03

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	12/3/18	12/3/18 11:26	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Tetrachloroethylene	5.0	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:26	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	82.9	70-130	12/3/18 11:26						
Toluene-d8	98.9	70-130	12/3/18 11:26						
4-Bromofluorobenzene	101	70-130	12/3/18 11:26						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-202D-112018

Sampled: 11/20/2018 08:00

Sample ID: 18K1113-04

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	12/3/18	12/3/18 11:57	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-202D-112018

Sampled: 11/20/2018 08:00

Sample ID: 18K1113-04

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	12/3/18	12/3/18 11:57	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Tetrachloroethylene	2.1	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 11:57	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.5	70-130	12/3/18 11:57						
Toluene-d8	99.2	70-130	12/3/18 11:57						
4-Bromofluorobenzene	101	70-130	12/3/18 11:57						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101S-112018

Sampled: 11/20/2018 08:30

Sample ID: 18K1113-05

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	12/3/18	12/3/18 12:27	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101S-112018

Sampled: 11/20/2018 08:30

Sample ID: 18K1113-05

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	12/3/18	12/3/18 12:27	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Tetrachloroethylene	3.8	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:27	LBD
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,2-Dichloroethane-d4	81.1	70-130					12/3/18	12:27	
Toluene-d8	99.6	70-130					12/3/18	12:27	
4-Bromofluorobenzene	100	70-130					12/3/18	12:27	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101S-FD-112018

Sampled: 11/20/2018 08:30

Sample ID: 18K1113-06

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	12/3/18	12/3/18 12:58	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101S-FD-112018

Sampled: 11/20/2018 08:30

Sample ID: 18K1113-06

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	12/3/18	12/3/18 12:58	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Tetrachloroethylene	2.8	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 12:58	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.0	70-130	12/3/18 12:58						
Toluene-d8	101	70-130	12/3/18 12:58						
4-Bromofluorobenzene	104	70-130	12/3/18 12:58						

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101D-112018

Sampled: 11/20/2018 09:00

Sample ID: 18K1113-07

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	12/3/18	12/3/18 13:29	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
cis-1,2-Dichloroethylene	5.9	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-101D-112018

Sampled: 11/20/2018 09:00

Sample ID: 18K1113-07

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	12/3/18	12/3/18 13:29	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 13:29	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	82.6	70-130						12/3/18 13:29	
Toluene-d8	100	70-130						12/3/18 13:29	
4-Bromofluorobenzene	101	70-130						12/3/18 13:29	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-201D-112018

Sampled: 11/20/2018 09:30

Sample ID: 18K1113-08

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	12/3/18	12/3/18 18:07	LBD
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Benzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Bromoform	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Bromomethane	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Carbon Disulfide	ND	200	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Chloroethane	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Chloroform	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Chloromethane	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-201D-112018

Sampled: 11/20/2018 09:30

Sample ID: 18K1113-08

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	12/3/18	12/3/18 18:07	LBD
1,4-Dioxane	ND	5000	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Methyl Acetate	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Naphthalene	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Styrene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Tetrachloroethylene	2300	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Toluene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Trichloroethylene	240	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
m+p Xylene	ND	100	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
o-Xylene	ND	50	µg/L	50		SW-846 8260C	12/3/18	12/3/18 18:07	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.2	70-130					12/3/18	18:07	
Toluene-d8	98.3	70-130					12/3/18	18:07	
4-Bromofluorobenzene	102	70-130					12/3/18	18:07	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-218D-112018

Sampled: 11/20/2018 10:30

Sample ID: 18K1113-09

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Bromoform	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Bromomethane	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Chloromethane	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-218D-112018

Sampled: 11/20/2018 10:30

Sample ID: 18K1113-09

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,4-Dioxane	ND	2000	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Methyl Acetate	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Naphthalene	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Tetrachloroethylene	1100	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2,4-Trichlorobenzene	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Trichloroethylene	25	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C	12/3/18	12/3/18 18:38	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.2	70-130	12/3/18 18:38						
Toluene-d8	98.6	70-130	12/3/18 18:38						
4-Bromofluorobenzene	101	70-130	12/3/18 18:38						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-218S-112018

Sampled: 11/20/2018 11:30

Sample ID: 18K1113-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-218S-112018

Sampled: 11/20/2018 11:30

Sample ID: 18K1113-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Tetrachloroethylene	37	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:06	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		81.6	70-130					12/3/18 17:06	
Toluene-d8		98.8	70-130					12/3/18 17:06	
4-Bromofluorobenzene		104	70-130					12/3/18 17:06	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-209D-112018

Sampled: 11/20/2018 12:30

Sample ID: 18K1113-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1-Dichloroethylene	4.3	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
cis-1,2-Dichloroethylene	24	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
trans-1,2-Dichloroethylene	2.3	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-209D-112018

Sampled: 11/20/2018 12:30

Sample ID: 18K1113-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,4-Dioxane	ND	200	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Methyl Acetate	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Methyl tert-Butyl Ether (MTBE)	2.6	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Naphthalene	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Tetrachloroethylene	130	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2,4-Trichlorobenzene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Trichloroethylene	120	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 19:09	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	83.8	70-130					12/3/18	19:09	
Toluene-d8	99.1	70-130					12/3/18	19:09	
4-Bromofluorobenzene	98.7	70-130					12/3/18	19:09	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-216S-112018

Sampled: 11/20/2018 13:00

Sample ID: 18K1113-12

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
cis-1,2-Dichloroethylene	75	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-216S-112018

Sampled: 11/20/2018 13:00

Sample ID: 18K1113-12

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,4-Dioxane	ND	200	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Methyl Acetate	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Naphthalene	16	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2,4-Trichlorobenzene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,2,4-Trimethylbenzene	5.1	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
1,3,5-Trimethylbenzene	2.1	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
o-Xylene	4.8	2.0	µg/L	2		SW-846 8260C	12/3/18	12/3/18 16:35	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	80.0	70-130					12/3/18	16:35	
Toluene-d8	98.8	70-130					12/3/18	16:35	
4-Bromofluorobenzene	103	70-130					12/3/18	16:35	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-216D-112018

Sampled: 11/20/2018 13:30

Sample ID: 18K1113-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-216D-112018

Sampled: 11/20/2018 13:30

Sample ID: 18K1113-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:00	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	82.6	70-130	12/3/18 14:00						
Toluene-d8	99.4	70-130	12/3/18 14:00						
4-Bromofluorobenzene	100	70-130	12/3/18 14:00						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-109D-112018

Sampled: 11/21/2018 08:00

Sample ID: 18K1113-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-109D-112018

Sampled: 11/21/2018 08:00

Sample ID: 18K1113-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 14:31	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		83.8	70-130					12/3/18 14:31	
Toluene-d8		99.5	70-130					12/3/18 14:31	
4-Bromofluorobenzene		98.7	70-130					12/3/18 14:31	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-109D-112018

Sampled: 11/21/2018 08:00

Sample ID: 18K1113-14

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	1.0	µg/L	1		SW-846 6020B	12/3/18	12/3/18 17:00	MJH

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: 18K1113

Date Received: 11/27/2018

Field Sample #: GZA-3-112018

Sampled: 11/21/2018 09:00

Sample ID: 18K1113-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: GZA-3-112018

Sampled: 11/21/2018 09:00

Sample ID: 18K1113-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Vinyl Chloride	2.2	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:02	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		82.3	70-130					12/3/18 15:02	
Toluene-d8		99.8	70-130					12/3/18 15:02	
4-Bromofluorobenzene		98.6	70-130					12/3/18 15:02	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: GZA-3-112018

Sampled: 11/21/2018 09:00

Sample ID: 18K1113-15

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	1.0	µg/L	1		SW-846 6020B	12/3/18	12/3/18 17:04	MJH

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: 18K1113

Date Received: 11/27/2018

Field Sample #: GZA-3-112018-FD

Sampled: 11/21/2018 09:00

Sample ID: 18K1113-16

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	1.0	µg/L	1		SW-846 6020B	12/3/18	12/3/18 17:15	MJH

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: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-06-112018

Sampled: 11/21/2018 10:00

Sample ID: 18K1113-17

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Transformer Oil	9.4	0.20	mg/L	1		SW-846 8015C	11/28/18	12/1/18 0:59	RMW
Surrogates		% Recovery			Recovery Limits				
2-Fluorobiphenyl		82.0			40-140			12/1/18 0:59	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-06-112018-FD

Sampled: 11/21/2018 10:00

Sample ID: 18K1113-18

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Transformer Oil	9.0	0.40	mg/L	2		SW-846 8015C	11/28/18	12/1/18 13:58	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	78.5		40-140					12/1/18 13:58	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-217D-112018

Sampled: 11/21/2018 11:00

Sample ID: 18K1113-19

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	12/3/18	12/3/18 15:33	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
cis-1,2-Dichloroethylene	1.3	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-217D-112018

Sampled: 11/21/2018 11:00

Sample ID: 18K1113-19

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	12/3/18	12/3/18 15:33	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Trichloroethylene	2.6	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 15:33	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		82.6	70-130					12/3/18 15:33	
Toluene-d8		98.2	70-130					12/3/18 15:33	
4-Bromofluorobenzene		99.6	70-130					12/3/18 15:33	

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-217S-112018

Sampled: 11/21/2018 12:00

Sample ID: 18K1113-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-217S-112018

Sampled: 11/21/2018 12:00

Sample ID: 18K1113-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Tetrachloroethylene	7.5	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 16:04	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	79.6	70-130	12/3/18 16:04						
Toluene-d8	97.9	70-130	12/3/18 16:04						
4-Bromofluorobenzene	99.0	70-130	12/3/18 16:04						

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-112-112018

Sampled: 11/21/2018 13:00

Sample ID: 18K1113-21

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	12/3/18	12/3/18 17:36	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-112-112018

Sampled: 11/21/2018 13:00

Sample ID: 18K1113-21

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	12/3/18	12/3/18 17:36	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Tetrachloroethylene	47	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Trichloroethylene	11	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 17:36	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.2	70-130	12/3/18 17:36						
Toluene-d8	99.7	70-130	12/3/18 17:36						
4-Bromofluorobenzene	99.2	70-130	12/3/18 17:36						

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: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-01-112018

Sampled: 11/21/2018 14:00

Sample ID: 18K1113-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Benzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Bromoform	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Bromomethane	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-05	SW-846 8260C	12/3/18	12/4/18 1:18	LBD
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Chloroethane	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Chloroform	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Chloromethane	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10	V-05	SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
cis-1,2-Dichloroethylene	60	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
2,2-Dichloropropane	ND	10	µg/L	10	V-05	SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-01-112018

Sampled: 11/21/2018 14:00

Sample ID: 18K1113-22

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,4-Dioxane	ND	1000	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Hexachlorobutadiene	ND	6.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Methyl Acetate	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Methyl Cyclohexane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Naphthalene	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Styrene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Tetrachloroethylene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Toluene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2,4-Trichlorobenzene	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Trichloroethylene	740	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
o-Xylene	ND	10	µg/L	10		SW-846 8260C	12/3/18	12/4/18 1:18	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	80.2	70-130	12/4/18 1:18						
Toluene-d8	100	70-130	12/4/18 1:18						
4-Bromofluorobenzene	98.6	70-130	12/4/18 1:18						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-02-112018

Sampled: 11/21/2018 15:00

Sample ID: 18K1113-23

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	12/3/18	12/3/18 23:46	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	12/3/18	12/3/18 23:46	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: CW-02-112018

Sampled: 11/21/2018 15:00

Sample ID: 18K1113-23

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	12/3/18	12/3/18 23:46	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/3/18 23:46	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	82.0	70-130	12/3/18 23:46						
Toluene-d8	99.2	70-130	12/3/18 23:46						
4-Bromofluorobenzene	99.3	70-130	12/3/18 23:46						

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: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-116S-112018

Sampled: 11/21/2018 15:40

Sample ID: 18K1113-24

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	12/3/18	12/4/18 0:17	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:17	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-116S-112018

Sampled: 11/21/2018 15:40

Sample ID: 18K1113-24

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	12/3/18	12/4/18 0:17	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:17	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.1	70-130	12/4/18 0:17						
Toluene-d8	99.6	70-130	12/4/18 0:17						
4-Bromofluorobenzene	98.3	70-130	12/4/18 0:17						

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-116D-112018

Sampled: 11/21/2018 16:30

Sample ID: 18K1113-25

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	12/3/18	12/4/18 0:47	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:47	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 18K1113

Date Received: 11/27/2018

Field Sample #: MW-116D-112018

Sampled: 11/21/2018 16:30

Sample ID: 18K1113-25

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	12/3/18	12/4/18 0:47	LBD
1,4-Dioxane	ND	100	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/3/18	12/4/18 0:47	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	81.8	70-130	12/4/18 0:47						
Toluene-d8	100	70-130	12/4/18 0:47						
4-Bromofluorobenzene	101	70-130	12/4/18 0:47						

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1113-14 [MW-109D-112018]	B218346	10.0	10.0	12/03/18
18K1113-15 [GZA-3-112018]	B218346	10.0	10.0	12/03/18
18K1113-16 [GZA-3-112018-FD]	B218346	10.0	10.0	12/03/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1113-17 [CW-06-112018]	B217991	1000	1.00	11/28/18
18K1113-18 [CW-06-112018-FD]	B217991	1000	1.00	11/28/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1113-01 [MW-207S-112018]	B218293	5	5.00	12/03/18
18K1113-02 [MW-207D-112018]	B218293	5	5.00	12/03/18
18K1113-03 [MW-202S-112018]	B218293	5	5.00	12/03/18
18K1113-04 [MW-202D-112018]	B218293	5	5.00	12/03/18
18K1113-05 [MW-101S-112018]	B218293	5	5.00	12/03/18
18K1113-06 [MW-101S-FD-112018]	B218293	5	5.00	12/03/18
18K1113-07 [MW-101D-112018]	B218293	5	5.00	12/03/18
18K1113-08 [MW-201D-112018]	B218293	0.1	5.00	12/03/18
18K1113-09 [MW-218D-112018]	B218293	0.25	5.00	12/03/18
18K1113-10 [MW-218S-112018]	B218293	5	5.00	12/03/18
18K1113-11 [MW-209D-112018]	B218293	2.5	5.00	12/03/18
18K1113-12 [MW-216S-112018]	B218293	2.5	5.00	12/03/18
18K1113-13 [MW-216D-112018]	B218293	5	5.00	12/03/18
18K1113-14 [MW-109D-112018]	B218293	5	5.00	12/03/18
18K1113-15 [GZA-3-112018]	B218293	5	5.00	12/03/18
18K1113-19 [MW-217D-112018]	B218293	5	5.00	12/03/18
18K1113-20 [MW-217S-112018]	B218293	5	5.00	12/03/18
18K1113-21 [MW-112-112018]	B218293	5	5.00	12/03/18

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K1113-22 [CW-01-112018]	B218294	0.5	5.00	12/03/18
18K1113-23 [CW-02-112018]	B218294	5	5.00	12/03/18
18K1113-24 [MW-116S-112018]	B218294	5	5.00	12/03/18
18K1113-25 [MW-116D-112018]	B218294	5	5.00	12/03/18

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 B218293 - SW-846 5030B

Blank (B218293-BLK1)

Prepared & Analyzed: 12/03/18

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							

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 B218293 - SW-846 5030B										
Blank (B218293-BLK1)										
Prepared & Analyzed: 12/03/18										
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	20.9		µg/L	25.0		83.6	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			
LCS (B218293-BS1)										
Prepared & Analyzed: 12/03/18										
Acetone	86.2	50	µg/L	100		86.2	70-160			V-36 †
Acrylonitrile	9.79	5.0	µg/L	10.0		97.9	70-130			
tert-Amyl Methyl Ether (TAME)	9.51	0.50	µg/L	10.0		95.1	70-130			
Benzene	9.64	1.0	µg/L	10.0		96.4	70-130			
Bromobenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromodichloromethane	9.23	0.50	µg/L	10.0		92.3	70-130			
Bromoform	9.35	1.0	µg/L	10.0		93.5	70-130			
Bromomethane	7.42	2.0	µg/L	10.0		74.2	40-160		V-20	†
2-Butanone (MEK)	86.2	20	µg/L	100		86.2	40-160			†
tert-Butyl Alcohol (TBA)	82.2	20	µg/L	100		82.2	40-160			†
n-Butylbenzene	9.09	1.0	µg/L	10.0		90.9	70-130			
sec-Butylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
tert-Butylbenzene	9.52	1.0	µg/L	10.0		95.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.93	0.50	µg/L	10.0		89.3	70-130			
Carbon Disulfide	12.0	4.0	µg/L	10.0		120	70-130			V-36
Carbon Tetrachloride	8.98	5.0	µg/L	10.0		89.8	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.68	0.50	µg/L	10.0		96.8	70-130			
Chloroethane	9.55	2.0	µg/L	10.0		95.5	70-130			
Chloroform	8.73	2.0	µg/L	10.0		87.3	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218293 - SW-846 5030B										
LCS (B218293-BS1)										
				Prepared & Analyzed: 12/03/18						
Chloromethane	9.04	2.0	µg/L	10.0		90.4	40-160			†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130			
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.02	5.0	µg/L	10.0		90.2	70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130			
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130			
1,3-Dichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
1,4-Dichlorobenzene	9.51	1.0	µg/L	10.0		95.1	70-130			
trans-1,4-Dichloro-2-butene	9.15	2.0	µg/L	10.0		91.5	70-130			
Dichlorodifluoromethane (Freon 12)	10.7	2.0	µg/L	10.0		107	40-160			†
1,1-Dichloroethane	9.75	1.0	µg/L	10.0		97.5	70-130			
1,2-Dichloroethane	8.76	1.0	µg/L	10.0		87.6	70-130			
1,1-Dichloroethylene	9.29	1.0	µg/L	10.0		92.9	70-130			
cis-1,2-Dichloroethylene	8.99	1.0	µg/L	10.0		89.9	70-130			
trans-1,2-Dichloroethylene	9.66	1.0	µg/L	10.0		96.6	70-130			
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130			
1,3-Dichloropropane	9.71	0.50	µg/L	10.0		97.1	70-130			
2,2-Dichloropropane	9.08	1.0	µg/L	10.0		90.8	40-130			†
1,1-Dichloropropene	9.57	2.0	µg/L	10.0		95.7	70-130			
cis-1,3-Dichloropropene	9.91	0.50	µg/L	10.0		99.1	70-130			
trans-1,3-Dichloropropene	9.50	0.50	µg/L	10.0		95.0	70-130			
Diethyl Ether	9.91	2.0	µg/L	10.0		99.1	70-130			
Diisopropyl Ether (DIPE)	8.52	0.50	µg/L	10.0		85.2	70-130			
1,4-Dioxane	118	50	µg/L	100		118	40-130			†
Ethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
Hexachlorobutadiene	10.7	0.60	µg/L	10.0		107	70-130			†
2-Hexanone (MBK)	87.4	10	µg/L	100		87.4	70-160			†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	9.43	1.0	µg/L	10.0		94.3	70-130			
Methyl Acetate	8.30	1.0	µg/L	10.0		83.0	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	9.38	1.0	µg/L	10.0		93.8	70-130			
Methyl Cyclohexane	13.7	1.0	µg/L	10.0		137 *	70-130			L-02, V-20
Methylene Chloride	8.26	5.0	µg/L	10.0		82.6	70-130			
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0	70-160			†
Naphthalene	9.90	2.0	µg/L	10.0		99.0	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	9.94	1.0	µg/L	10.0		99.4	70-130			
1,1,1,2-Tetrachloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	9.21	10	µg/L	10.0		92.1	70-130			
Toluene	9.90	1.0	µg/L	10.0		99.0	70-130			
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110	70-130			
1,2,4-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1-Trichloroethane	8.49	1.0	µg/L	10.0		84.9	70-130			
1,1,2-Trichloroethane	9.94	1.0	µg/L	10.0		99.4	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	9.56	2.0	µg/L	10.0		95.6	70-130			
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B218293 - SW-846 5030B

LCS (B218293-BS1)

Prepared & Analyzed: 12/03/18

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	8.84	1.0	µg/L	10.0		88.4	70-130			
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Vinyl Chloride	9.95	2.0	µg/L	10.0		99.5	40-160			†
m+p Xylene	20.1	2.0	µg/L	20.0		100	70-130			
o-Xylene	9.82	1.0	µg/L	10.0		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	20.4		µg/L	25.0		81.8	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

LCS Dup (B218293-BSD1)

Prepared & Analyzed: 12/03/18

Acetone	86.2	50	µg/L	100		86.2	70-160	0.0464	25	V-36	†
Acrylonitrile	10.0	5.0	µg/L	10.0		100	70-130	2.22	25		
tert-Amyl Methyl Ether (TAME)	9.62	0.50	µg/L	10.0		96.2	70-130	1.15	25		
Benzene	9.51	1.0	µg/L	10.0		95.1	70-130	1.36	25		
Bromobenzene	9.48	1.0	µg/L	10.0		94.8	70-130	3.32	25		
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130	1.35	25		
Bromodichloromethane	9.08	0.50	µg/L	10.0		90.8	70-130	1.64	25		
Bromoform	9.32	1.0	µg/L	10.0		93.2	70-130	0.321	25		
Bromomethane	8.45	2.0	µg/L	10.0		84.5	40-160	13.0	25	V-20	†
2-Butanone (MEK)	85.9	20	µg/L	100		85.9	40-160	0.349	25		†
tert-Butyl Alcohol (TBA)	81.3	20	µg/L	100		81.3	40-160	1.05	25		†
n-Butylbenzene	8.77	1.0	µg/L	10.0		87.7	70-130	3.58	25		
sec-Butylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130	2.12	25		
tert-Butylbenzene	9.30	1.0	µg/L	10.0		93.0	70-130	2.34	25		
tert-Butyl Ethyl Ether (TBEE)	8.78	0.50	µg/L	10.0		87.8	70-130	1.69	25		
Carbon Disulfide	11.6	4.0	µg/L	10.0		116	70-130	4.24	25	V-36	
Carbon Tetrachloride	8.79	5.0	µg/L	10.0		87.9	70-130	2.14	25		
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.91	25		
Chlorodibromomethane	9.85	0.50	µg/L	10.0		98.5	70-130	1.74	25		
Chloroethane	9.24	2.0	µg/L	10.0		92.4	70-130	3.30	25		
Chloroform	8.74	2.0	µg/L	10.0		87.4	70-130	0.114	25		
Chloromethane	8.80	2.0	µg/L	10.0		88.0	40-160	2.69	25		†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	2.15	25		
4-Chlorotoluene	9.89	1.0	µg/L	10.0		98.9	70-130	3.09	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.09	5.0	µg/L	10.0		90.9	70-130	0.773	25		
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	1.57	25		
Dibromomethane	10.0	1.0	µg/L	10.0		100	70-130	1.87	25		
1,2-Dichlorobenzene	9.30	1.0	µg/L	10.0		93.0	70-130	3.49	25		
1,3-Dichlorobenzene	9.48	1.0	µg/L	10.0		94.8	70-130	3.32	25		
1,4-Dichlorobenzene	9.13	1.0	µg/L	10.0		91.3	70-130	4.08	25		
trans-1,4-Dichloro-2-butene	9.07	2.0	µg/L	10.0		90.7	70-130	0.878	25		
Dichlorodifluoromethane (Freon 12)	10.8	2.0	µg/L	10.0		108	40-160	0.465	25		†
1,1-Dichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130	3.87	25		
1,2-Dichloroethane	8.81	1.0	µg/L	10.0		88.1	70-130	0.569	25		
1,1-Dichloroethylene	8.94	1.0	µg/L	10.0		89.4	70-130	3.84	25		
cis-1,2-Dichloroethylene	8.82	1.0	µg/L	10.0		88.2	70-130	1.91	25		
trans-1,2-Dichloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130	3.48	25		
1,2-Dichloropropane	9.79	1.0	µg/L	10.0		97.9	70-130	3.02	25		
1,3-Dichloropropane	9.60	0.50	µg/L	10.0		96.0	70-130	1.14	25		
2,2-Dichloropropane	8.68	1.0	µg/L	10.0		86.8	40-130	4.50	25		†
1,1-Dichloropropene	9.11	2.0	µg/L	10.0		91.1	70-130	4.93	25		

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 B218293 - SW-846 5030B

LCS Dup (B218293-BSD1)

Prepared & Analyzed: 12/03/18

cis-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0	70-130	1.12	25	
trans-1,3-Dichloropropene	9.41	0.50	µg/L	10.0		94.1	70-130	0.952	25	
Diethyl Ether	9.69	2.0	µg/L	10.0		96.9	70-130	2.24	25	
Diisopropyl Ether (DIPE)	8.45	0.50	µg/L	10.0		84.5	70-130	0.825	25	
1,4-Dioxane	125	50	µg/L	100		125	40-130	5.98	50	† ‡
Ethylbenzene	9.72	1.0	µg/L	10.0		97.2	70-130	2.64	25	
Hexachlorobutadiene	10.3	0.60	µg/L	10.0		103	70-130	4.09	25	
2-Hexanone (MBK)	88.2	10	µg/L	100		88.2	70-160	0.911	25	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130	3.01	25	
p-Isopropyltoluene (p-Cymene)	9.24	1.0	µg/L	10.0		92.4	70-130	2.04	25	
Methyl Acetate	8.49	1.0	µg/L	10.0		84.9	70-130	2.26	25	V-20
Methyl tert-Butyl Ether (MTBE)	9.24	1.0	µg/L	10.0		92.4	70-130	1.50	25	
Methyl Cyclohexane	13.6	1.0	µg/L	10.0		136 *	70-130	0.367	25	L-02, V-20
Methylene Chloride	8.01	5.0	µg/L	10.0		80.1	70-130	3.07	25	
4-Methyl-2-pentanone (MIBK)	88.4	10	µg/L	100		88.4	70-160	0.654	25	†
Naphthalene	9.67	2.0	µg/L	10.0		96.7	40-130	2.35	25	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.64	25	
Styrene	9.78	1.0	µg/L	10.0		97.8	70-130	1.62	25	
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130	1.49	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	0.554	25	
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130	3.94	25	
Tetrahydrofuran	9.01	10	µg/L	10.0		90.1	70-130	2.20	25	
Toluene	9.71	1.0	µg/L	10.0		97.1	70-130	1.94	25	
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110	70-130	0.182	25	
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	4.44	25	
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.20	25	
1,1,1-Trichloroethane	8.35	1.0	µg/L	10.0		83.5	70-130	1.66	25	
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.901	25	
Trichloroethylene	9.73	1.0	µg/L	10.0		97.3	70-130	3.43	25	
Trichlorofluoromethane (Freon 11)	9.39	2.0	µg/L	10.0		93.9	70-130	1.79	25	
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105	70-130	4.37	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.0		114	70-130	3.10	25	
1,2,4-Trimethylbenzene	8.69	1.0	µg/L	10.0		86.9	70-130	1.71	25	
1,3,5-Trimethylbenzene	9.78	1.0	µg/L	10.0		97.8	70-130	3.32	25	
Vinyl Chloride	9.60	2.0	µg/L	10.0		96.0	40-160	3.58	25	†
m+p Xylene	19.6	2.0	µg/L	20.0		98.0	70-130	2.47	25	
o-Xylene	9.75	1.0	µg/L	10.0		97.5	70-130	0.715	25	
Surrogate: 1,2-Dichloroethane-d4	20.3		µg/L	25.0		81.1	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

Batch B218294 - SW-846 5030B

Blank (B218294-BLK1)

Prepared & Analyzed: 12/03/18

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							

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 B218294 - SW-846 5030B

Blank (B218294-BLK1)

Prepared & Analyzed: 12/03/18

Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	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							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							
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							

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 B218294 - SW-846 5030B

Blank (B218294-BLK1)

Prepared & Analyzed: 12/03/18

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	20.4		µg/L	25.0		81.4	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.6	70-130			

LCS (B218294-BS1)

Prepared & Analyzed: 12/03/18

Acetone	80.3	50	µg/L	100		80.3	70-160			V-35 †
Acrylonitrile	9.07	5.0	µg/L	10.0		90.7	70-130			
tert-Amyl Methyl Ether (TAME)	9.28	0.50	µg/L	10.0		92.8	70-130			
Benzene	9.49	1.0	µg/L	10.0		94.9	70-130			
Bromobenzene	9.71	1.0	µg/L	10.0		97.1	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	8.98	0.50	µg/L	10.0		89.8	70-130			
Bromoform	8.69	1.0	µg/L	10.0		86.9	70-130			
Bromomethane	5.73	2.0	µg/L	10.0		57.3	40-160			†
2-Butanone (MEK)	74.1	20	µg/L	100		74.1	40-160			†
tert-Butyl Alcohol (TBA)	63.2	20	µg/L	100		63.2	40-160			V-05 †
n-Butylbenzene	8.52	1.0	µg/L	10.0		85.2	70-130			
sec-Butylbenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
tert-Butylbenzene	9.17	1.0	µg/L	10.0		91.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.35	0.50	µg/L	10.0		83.5	70-130			
Carbon Disulfide	12.2	4.0	µg/L	10.0		122	70-130			V-36
Carbon Tetrachloride	8.88	5.0	µg/L	10.0		88.8	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.54	0.50	µg/L	10.0		95.4	70-130			
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130			
Chloroform	8.80	2.0	µg/L	10.0		88.0	70-130			
Chloromethane	9.28	2.0	µg/L	10.0		92.8	40-160			†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.90	5.0	µg/L	10.0		79.0	70-130			
1,2-Dibromoethane (EDB)	9.69	0.50	µg/L	10.0		96.9	70-130			
Dibromomethane	9.88	1.0	µg/L	10.0		98.8	70-130			
1,2-Dichlorobenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
1,3-Dichlorobenzene	9.45	1.0	µg/L	10.0		94.5	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218294 - SW-846 5030B										
LCS (B218294-BS1)										
Prepared & Analyzed: 12/03/18										
1,4-Dichlorobenzene	9.38	1.0	µg/L	10.0		93.8	70-130			
trans-1,4-Dichloro-2-butene	7.90	2.0	µg/L	10.0		79.0	70-130			V-05
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.0		110	40-160			†
1,1-Dichloroethane	9.58	1.0	µg/L	10.0		95.8	70-130			
1,2-Dichloroethane	8.74	1.0	µg/L	10.0		87.4	70-130			
1,1-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130			
cis-1,2-Dichloroethylene	8.56	1.0	µg/L	10.0		85.6	70-130			
trans-1,2-Dichloroethylene	9.44	1.0	µg/L	10.0		94.4	70-130			
1,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1	70-130			
1,3-Dichloropropane	9.62	0.50	µg/L	10.0		96.2	70-130			
2,2-Dichloropropane	7.37	1.0	µg/L	10.0		73.7	40-130			V-05 †
1,1-Dichloropropene	9.29	2.0	µg/L	10.0		92.9	70-130			
cis-1,3-Dichloropropene	9.24	0.50	µg/L	10.0		92.4	70-130			
trans-1,3-Dichloropropene	8.96	0.50	µg/L	10.0		89.6	70-130			
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130			
Diisopropyl Ether (DIPE)	8.29	0.50	µg/L	10.0		82.9	70-130			
1,4-Dioxane	103	50	µg/L	100		103	40-130			†
Ethylbenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
Hexachlorobutadiene	10.6	0.60	µg/L	10.0		106	70-130			†
2-Hexanone (MBK)	75.6	10	µg/L	100		75.6	70-160			†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	9.05	1.0	µg/L	10.0		90.5	70-130			
Methyl Acetate	7.85	1.0	µg/L	10.0		78.5	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	8.82	1.0	µg/L	10.0		88.2	70-130			
Methyl Cyclohexane	13.0	1.0	µg/L	10.0		130	70-130			V-06
Methylene Chloride	8.04	5.0	µg/L	10.0		80.4	70-130			
4-Methyl-2-pentanone (MIBK)	78.4	10	µg/L	100		78.4	70-160			†
Naphthalene	8.08	2.0	µg/L	10.0		80.8	40-130			†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Styrene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Tetrahydrofuran	7.77	10	µg/L	10.0		77.7	70-130			
Toluene	9.80	1.0	µg/L	10.0		98.0	70-130			
1,2,3-Trichlorobenzene	9.76	5.0	µg/L	10.0		97.6	70-130			
1,2,4-Trichlorobenzene	9.61	1.0	µg/L	10.0		96.1	70-130			
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1-Trichloroethane	8.29	1.0	µg/L	10.0		82.9	70-130			
1,1,2-Trichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130			
Trichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	9.82	2.0	µg/L	10.0		98.2	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.9	1.0	µg/L	10.0		119	70-130			
1,2,4-Trimethylbenzene	8.65	1.0	µg/L	10.0		86.5	70-130			
1,3,5-Trimethylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160			†
m+p Xylene	19.8	2.0	µg/L	20.0		99.2	70-130			
o-Xylene	9.88	1.0	µg/L	10.0		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	20.1		µg/L	25.0		80.4	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.8	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218294 - SW-846 5030B										
LCS (B218294-BS1)										
Prepared & Analyzed: 12/03/18										
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			
LCS Dup (B218294-BSD1)										
Prepared & Analyzed: 12/03/18										
Acetone	74.3	50	µg/L	100		74.3	70-160	7.71	25	V-35 †
Acrylonitrile	8.51	5.0	µg/L	10.0		85.1	70-130	6.37	25	
tert-Amyl Methyl Ether (TAME)	8.98	0.50	µg/L	10.0		89.8	70-130	3.29	25	
Benzene	9.15	1.0	µg/L	10.0		91.5	70-130	3.65	25	
Bromobenzene	9.32	1.0	µg/L	10.0		93.2	70-130	4.10	25	
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	6.86	25	
Bromodichloromethane	8.80	0.50	µg/L	10.0		88.0	70-130	2.02	25	
Bromoform	8.57	1.0	µg/L	10.0		85.7	70-130	1.39	25	
Bromomethane	7.14	2.0	µg/L	10.0		71.4	40-160	21.9	25	†
2-Butanone (MEK)	73.2	20	µg/L	100		73.2	40-160	1.17	25	†
tert-Butyl Alcohol (TBA)	63.8	20	µg/L	100		63.8	40-160	1.01	25	V-05 †
n-Butylbenzene	8.25	1.0	µg/L	10.0		82.5	70-130	3.22	25	
sec-Butylbenzene	8.83	1.0	µg/L	10.0		88.3	70-130	4.00	25	
tert-Butylbenzene	8.97	1.0	µg/L	10.0		89.7	70-130	2.21	25	
tert-Butyl Ethyl Ether (TBEE)	8.23	0.50	µg/L	10.0		82.3	70-130	1.45	25	
Carbon Disulfide	10.7	4.0	µg/L	10.0		107	70-130	13.2	25	V-36
Carbon Tetrachloride	8.47	5.0	µg/L	10.0		84.7	70-130	4.73	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.27	25	
Chlorodibromomethane	9.33	0.50	µg/L	10.0		93.3	70-130	2.23	25	
Chloroethane	9.30	2.0	µg/L	10.0		93.0	70-130	9.52	25	
Chloroform	8.39	2.0	µg/L	10.0		83.9	70-130	4.77	25	
Chloromethane	8.61	2.0	µg/L	10.0		86.1	40-160	7.49	25	†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	1.64	25	
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	0.989	25	
1,2-Dibromo-3-chloropropane (DBCP)	7.40	5.0	µg/L	10.0		74.0	70-130	6.54	25	
1,2-Dibromoethane (EDB)	9.68	0.50	µg/L	10.0		96.8	70-130	0.103	25	
Dibromomethane	9.95	1.0	µg/L	10.0		99.5	70-130	0.706	25	
1,2-Dichlorobenzene	9.13	1.0	µg/L	10.0		91.3	70-130	5.43	25	
1,3-Dichlorobenzene	9.15	1.0	µg/L	10.0		91.5	70-130	3.23	25	
1,4-Dichlorobenzene	8.95	1.0	µg/L	10.0		89.5	70-130	4.69	25	
trans-1,4-Dichloro-2-butene	7.36	2.0	µg/L	10.0		73.6	70-130	7.08	25	V-05
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.0		104	40-160	4.96	25	†
1,1-Dichloroethane	9.00	1.0	µg/L	10.0		90.0	70-130	6.24	25	
1,2-Dichloroethane	8.56	1.0	µg/L	10.0		85.6	70-130	2.08	25	
1,1-Dichloroethylene	8.66	1.0	µg/L	10.0		86.6	70-130	9.57	25	
cis-1,2-Dichloroethylene	8.32	1.0	µg/L	10.0		83.2	70-130	2.84	25	
trans-1,2-Dichloroethylene	9.07	1.0	µg/L	10.0		90.7	70-130	4.00	25	
1,2-Dichloropropane	9.60	1.0	µg/L	10.0		96.0	70-130	2.16	25	
1,3-Dichloropropane	9.57	0.50	µg/L	10.0		95.7	70-130	0.521	25	
2,2-Dichloropropane	6.94	1.0	µg/L	10.0		69.4	40-130	6.01	25	V-05 †
1,1-Dichloropropene	8.72	2.0	µg/L	10.0		87.2	70-130	6.33	25	
cis-1,3-Dichloropropene	9.06	0.50	µg/L	10.0		90.6	70-130	1.97	25	
trans-1,3-Dichloropropene	8.69	0.50	µg/L	10.0		86.9	70-130	3.06	25	
Diethyl Ether	9.47	2.0	µg/L	10.0		94.7	70-130	7.32	25	
Diisopropyl Ether (DIPE)	7.87	0.50	µg/L	10.0		78.7	70-130	5.20	25	
1,4-Dioxane	101	50	µg/L	100		101	40-130	1.73	50	† ‡
Ethylbenzene	9.55	1.0	µg/L	10.0		95.5	70-130	4.10	25	
Hexachlorobutadiene	10.4	0.60	µg/L	10.0		104	70-130	1.90	25	
2-Hexanone (MBK)	75.4	10	µg/L	100		75.4	70-160	0.265	25	†

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 B218294 - SW-846 5030B										
LCS Dup (B218294-BSD1)										
Prepared & Analyzed: 12/03/18										
Isopropylbenzene (Cumene)	9.92	1.0	µg/L	10.0		99.2	70-130	2.00	25	
p-Isopropyltoluene (p-Cymene)	8.71	1.0	µg/L	10.0		87.1	70-130	3.83	25	
Methyl Acetate	7.53	1.0	µg/L	10.0		75.3	70-130	4.16	25	V-20
Methyl tert-Butyl Ether (MTBE)	8.58	1.0	µg/L	10.0		85.8	70-130	2.76	25	
Methyl Cyclohexane	12.7	1.0	µg/L	10.0		127	70-130	2.48	25	V-06
Methylene Chloride	7.87	5.0	µg/L	10.0		78.7	70-130	2.14	25	
4-Methyl-2-pentanone (MIBK)	77.7	10	µg/L	100		77.7	70-160	0.884	25	†
Naphthalene	7.81	2.0	µg/L	10.0		78.1	40-130	3.40	25	†
n-Propylbenzene	9.65	1.0	µg/L	10.0		96.5	70-130	5.44	25	
Styrene	9.56	1.0	µg/L	10.0		95.6	70-130	5.10	25	
1,1,1,2-Tetrachloroethane	9.75	1.0	µg/L	10.0		97.5	70-130	5.68	25	
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130	4.11	25	
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130	1.85	25	
Tetrahydrofuran	7.58	10	µg/L	10.0		75.8	70-130	2.48	25	
Toluene	9.56	1.0	µg/L	10.0		95.6	70-130	2.48	25	
1,2,3-Trichlorobenzene	9.28	5.0	µg/L	10.0		92.8	70-130	5.04	25	
1,2,4-Trichlorobenzene	9.04	1.0	µg/L	10.0		90.4	70-130	6.11	25	
1,3,5-Trichlorobenzene	9.84	1.0	µg/L	10.0		98.4	70-130	6.01	25	
1,1,1-Trichloroethane	7.88	1.0	µg/L	10.0		78.8	70-130	5.07	25	
1,1,2-Trichloroethane	9.53	1.0	µg/L	10.0		95.3	70-130	3.20	25	
Trichloroethylene	9.59	1.0	µg/L	10.0		95.9	70-130	2.78	25	
Trichlorofluoromethane (Freon 11)	9.47	2.0	µg/L	10.0		94.7	70-130	7.03	25	
1,2,3-Trichloropropane	9.90	2.0	µg/L	10.0		99.0	70-130	0.811	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0		110	70-130	8.12	25	
1,2,4-Trimethylbenzene	8.24	1.0	µg/L	10.0		82.4	70-130	4.85	25	
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130	0.800	25	
Vinyl Chloride	9.50	2.0	µg/L	10.0		95.0	40-160	8.47	25	†
m+p Xylene	19.0	2.0	µg/L	20.0		95.2	70-130	4.12	25	
o-Xylene	9.61	1.0	µg/L	10.0		96.1	70-130	2.77	25	
Surrogate: 1,2-Dichloroethane-d4	19.8		µg/L	25.0		79.0	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

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

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218346 - SW-846 3005A Dissolved										
Blank (B218346-BLK1)				Prepared & Analyzed: 12/03/18						
Lead	ND	1.0	µg/L							
LCS (B218346-BS1)				Prepared & Analyzed: 12/03/18						
Lead	38.5	1.0	µg/L	40.0		96.3	80-120			
Duplicate (B218346-DUP1)				Source: 18K1113-14			Prepared & Analyzed: 12/03/18			
Lead	ND	1.0	µg/L			ND		NC	20	
Matrix Spike (B218346-MS1)				Source: 18K1113-14			Prepared & Analyzed: 12/03/18			
Lead	25.7	1.2	µg/L	25.0		ND 103	75-125			

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration 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-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6020B in Water</i>	
Lead	CT,NH,NY,NC,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
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

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 Public 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	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
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

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 np Date 11/27/18 Time 16:00

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 # 1 Actual Temp - 16:00
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? _____ Acid T < Z Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.	
HCL-	66	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-		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: