



Aptim Environmental & Infrastructure, Inc.
150 Royall Street
Canton, MA 02021
Tel: +1 617 589 5111
Fax: +1 617 589 5495
www.Aptim.com

January 8, 2018

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 2017 through November 2017 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 2017.

FIELD ACTIVITIES

Limited VOC Sampling Activities August and November 2017

Limited groundwater gauging and sampling was conducted on August 17, 2017 and November 28, 2017. 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 18 and November 28, 2017. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities November 2017

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on November 27 and 28, 2017 and December 11, 2017.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on November 27 and 28, 2017. 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 27 and 28, 2017 and December 11, 2017 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. Please note that samples were originally collected from wells MW-109D and GZA-3 for VOC's on November 28, 2017 but the samples were misplaced during shipment to the lab. Therefore, wells MW-109D and GZA-3 were re-sampled by APTIM for VOC's on December 11, 2017. 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 17, November 27 and 28 and December 11, 2017 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-101S at 7300 µg/L, MW-202D at 6700 µg/L and MW-218D at 6100 µg/L on November 28, 2017.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedances of the compliance standard occurred for PCE at the Adelaide Avenue wells MW-112 on August 17, 2017, and MW-209D on November 27, 2017 and MW-218S on November 28, 2017. (Note that due to sample dilution by the laboratory, the analytical reporting limits for vinyl chloride for wells MW-112 and MW-209D were above the compound specific compliance standard for all of the sampling results collected.)

FUTURE ACTIVITIES

Future limited sampling will be conducted in February 2018 and the larger semi-annual sampling event will be conducted in May 2018.

If you have any questions regarding this report, please do not hesitate to call.

Sincerely,



Brian J. Cote, PG, LSP
Senior Project Manager
CB&I Environmental & Infrastructure, Inc.

Please Reply to: Brian J. Cote
Phone: 617-589-6175
E-Mail Address: brian.cote@cbi.com

Enclosures:

Table 1 – Summary Field Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Analytical Results Detected Compounds – June – November 2017
Table 4 – Groundwater Analytical Results in Compliance Wells – June – November 2017

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR - email
Greg Simpson, Textron - email
Dave Heislein, AMEC - 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, Brian J. Cote, as an authorized representative of Aptim Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated January 8, 2018, certify that the information contained in this report is complete and accurate to the best of my knowledge.

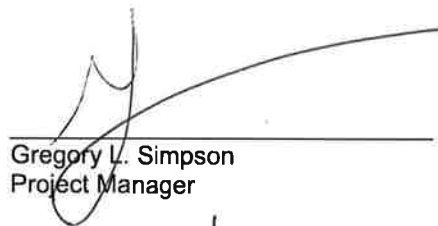


Brian J. Cote
Senior Project Manager

1/8/18
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

1/9/18
Date:

TABLES

Table 1
Summary Field Parameters
June 2017 - November 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

SITE_ID	DATE	pH Field	Temperature Field (deg.c)	Conductivity Field (ms/cm)	Dissolved Oxygen Field (mg/l)	Oxidation Reduction Potential Field (mv)
MW-101D	11/27/2017	6.22	12.8	0.016	6.33	152.3
MW-101S	11/27/2017	5.83	13.1	0.92	1.01	125.6
MW-112	11/28/2017	5.78	13.2	1.23	5.96	202.7
MW-116D	11/28/2017	7.3	13.5	0.477	3.66	180.3
MW-116S	11/28/2017	6.59	13.6	0.183	7.75	159.2
MW-201D	11/27/2017	6.68	13.2	0.641	3.88	200.7
MW-202D	11/27/2017	6.69	13	0.095	5.16	133.5
MW-202S	11/27/2017	6.2	13.4	0.488	0.91	141.8
MW-207D	11/28/2017	6.53	13.2	0.56	2.42	106.3
MW-207S	11/28/2017	6.7	13.6	0.597	3.03	125.4
MW-209D	11/27/2017	6.09	13	0.5	3.4	216.2
MW-216D	11/27/2017	6.92	12.9	0.61	0.41	-49.1
MW-216S	11/27/2017	6.44	13.3	1.38	0.22	-65
MW-217D	11/27/2017	6.48	13.2	1.09	0.19	-15.2
MW-217S	11/27/2017	6.79	13.7	0.7	1.16	4.8
MW-218D	11/28/2017	5.83	13.4	0.146	4.64	207.7
MW-218S	11/28/2017	4.79	13.8	0.79	2.82	234.5
Notes: Notes: C° = degrees Celsius mS/cm = millisiemens per centimeter mg/L = milligrams per liter mV = milli volts						

**TABLE 2
GROUNDWATER ELEVATION DATA
(08/17/17 - 11/28/17)**

01/04/18

**Former Gorham Manufacturing Facility
Providence, Rhode Island**

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Notes
CW-01	11/28/17	99.52	26.36	--	--	73.16	DTB = 54.50'
CW-02	11/28/17	98.86	25.52	--	--	73.34	DTB = 54.52'
CW-06	11/28/17	99.52	24.81	--	--	74.71	DTB = 33.45'
GZA-3	11/28/17	NA	16.90	--	--	NA	DTB = 22.00
MW-101D	11/27/17	98.91	25.62	--	--	73.29	DTB = 46.18'
MW-101S	11/27/17	98.90	25.73	--	--	73.17	DTB = 28.70'
MW-109D	11/28/17	NA	19.01	--	--	NA	DTB = 74.75'
MW-112	08/17/17	100.63	25.76	--	--	74.87	DTB = 34.75'
MW-112	11/28/17	100.63	25.44	--	--	75.19	DTB = 34.74'
MW-116D	08/17/17	98.92	24.02	--	--	74.90	DTB = 44.45'
MW-116D	11/28/17	98.92	25.74	--	--	73.18	DTB = 44.25'
MW-116S	08/17/17	99.40	24.51	--	--	74.89	DTB = 29.61'
MW-116S	11/28/17	99.40	26.68	--	--	72.72	DTB = 28.61'
MW-201D	11/27/17	98.80	25.55	--	--	73.25	DTB = 47.30'
MW-202D	11/27/17	98.17	24.76	--	--	73.41	DTB = 47.36'
MW-202S	11/27/17	98.06	24.65	--	--	73.41	DTB = 37.93'
MW-207D	11/28/17	98.18	24.71	--	--	73.47	DTB = 50.95'
MW-207S	11/28/17	98.28	24.77	--	--	73.51	DTB = 37.50'
MW-209D	11/27/17	99.90	27.17	--	--	72.73	DTB = 62.61'
MW-216D	11/27/17	98.69	25.10	--	--	73.59	DTB = 39.33'
MW-216S	11/27/17	99.58	26.11	--	--	73.47	DTB = 29.65'
MW-217D	11/27/17	98.65	25.28	--	--	73.37	DTB = 46.83'
MW-217S	11/27/17	98.71	25.32	--	--	73.39	DTB = 26.33'
MW-218D	11/28/17	99.67	26.80	--	--	72.87	DTB = 46.75'
MW-218S	11/28/17	99.61	26.14	--	--	73.47	DTB = 29.58'
MW-220S	11/28/17	99.41	26.09	--	--	73.32	DTB = 31.85'
MW-221S	11/28/17	98.92	25.88	25.86	0.02	73.06	

Notes:

feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2017 - November 2017

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	CW-01 11/28/2017 Primary	CW-02 11/28/2017 Primary	CW-06 11/28/2017 Primary	CW-06 11/28/2017 Duplicate 1	GZA-3 11/28/2017 Primary	GZA-3 11/28/2017 Duplicate 1	GZA-3 12/11/2017 Primary	MW-101D 11/27/2017 Primary	MW-101S 11/27/2017 Primary	MW-101S 11/27/2017 Duplicate 1	MW-109D 11/28/2017 Primary	MW-109D 12/11/2017 Primary
VOCs (µg/L)												
1,1-Dichloroethane	<20	<1.0	---	---	---	---	1.2	<1.0	<100	<100	---	<1.0
1,1-Dichloroethene	<20J	<1.0	---	---	---	---	<1.0	<1.0	<100	<100	---	<1.0
1,2,4-Trimethylbenzene	<20J	<1.0	---	---	---	---	<1.0	<1.0	<100J	<100	---	<1.0
1,3,5-Trimethylbenzene	<20	<1.0	---	---	---	---	<2.0	<1.0	<100	<100	---	<2.0
4-Methyl-2-pentanone	<200	<10	---	---	---	---	<10J	<10J	<1000	<1000	---	<10J
Chloroform	<40	<2.0	---	---	---	---	<2.0	<2.0	<200	<200	---	<2.0
cis-1,2-Dichloroethene	800	<1.0	---	---	---	---	<1.0J	1	<100	<100	---	<1.0
Ethylbenzene	<20J	<1.0	---	---	---	---	<1.0	<1.0	<100	<100	---	<1.0
Naphthalene	<40	<2.0	---	---	---	---	<2.0	<2.0	<200	<200	---	<2.0
Tetrachloroethene	<20J	<1.0	---	---	---	---	<1.0	13	7300	6800	---	<1.0
trans-1,2-Dichloroethene	<20J	<1.0	---	---	---	---	<1.0	<1.0	<100	<100	---	<1.0
Trichloroethene	<20	<1.0	---	---	---	---	<1.0	<1.0	<100J	<100J	---	1
Vinyl chloride	<40	<2.0	---	---	---	---	18	<2.0	<200	<200	---	<2.0
o-Xylene	<20	<1.0	---	---	---	---	<1.0	<1.0	<100	<100	---	<1.0
Xylene (total)	<40J	<2.0J	---	---	---	---	<2.0	<2.0J	<200J	<200J	---	<2.0
TPH (mg/L)												
TPH	---	---	9.8	7.8	---	---	---	---	---	---	---	---
Lead (µg/L)												
Dissolved Lead	---	---	---	---	<5.0	<5.0	---	---	---	---	<5.0	---

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

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2017 - November 2017

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	MW-112 8/17/2017 Primary	MW-112 11/28/2017 Primary	MW-116D 8/17/2017 Primary	MW-116D 11/28/2017 Primary	MW-116S 8/17/2017 Primary	MW-116S 11/28/2017 Primary	MW-201D 11/27/2017 Primary	MW-202D 11/27/2017 Primary	MW-202S 11/27/2017 Primary	MW-207D 11/28/2017 Primary	MW-207S 11/28/2017 Primary	MW-209D 11/27/2017 Primary
VOCs (µg/L)												
1,1-Dichloroethane	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloroethene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0	<1.0	<5.0J
1,2,4-Trimethylbenzene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0J	<1.0	<5.0J
1,3,5-Trimethylbenzene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0	<1.0	<5.0
4-Methyl-2-pentanone	<50	<20	<10	61	<10	<10J	<1000	300	<10	82	470	<50
Chloroform	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<200	<2.0	<2.0	<2.0	<2.0	<10
cis-1,2-Dichloroethene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	200	<1.0	<1.0	<1.0	<1.0	19
Ethylbenzene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0J	<1.0	<1.0	<5.0J
Naphthalene	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<200	<2.0	<2.0	<2.0	<2.0	<10J
Tetrachloroethene	180	130	<1.0	<1.0	<1.0	<1.0	6700	4.7	10	2.1	<1.0J	320
trans-1,2-Dichloroethene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0	<1.0	<1.0	<5.0J
Trichloroethene	<5.0	11	<1.0	<1.0	<1.0	<1.0	300	<1.0	<1.0J	<1.0	<1.0	120
Vinyl chloride	<10	<4.0	<2.0	<2.0	<2.0	<2.0	<200	<2.0	<2.0	<2.0	<2.0	<10
o-Xylene	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<1.0J	<1.0	<1.0	<5.0
Xylene (total)	<10	<4.0J	<2.0	<2.0J	<2.0	<2.0J	<200J	<2.0J	<2.0J	<2.0	<2.0	<10J
TPH (mg/L)												
TPH	---	---	---	---	---	---	---	---	---	---	---	---
Lead (µg/L)												
Dissolved Lead	---	---	---	---	---	---	---	---	---	---	---	---

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

TABLE 3
Groundwater Analytical Results Detected Compounds
June 2017 - November 2017

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	MW-216D 11/27/2017 Primary	MW-216S 11/27/2017 Primary	MW-217D 11/27/2017 Primary	MW-217S 11/27/2017 Primary	MW-218D 11/28/2017 Primary	MW-218S 11/28/2017 Primary
VOCs (µg/L)						
1,1-Dichloroethane	<1.0	<2.0	<1.0	<1.0J	<1.0	<1.0
1,1-Dichloroethene	<1.0	<2.0	<1.0J	2.9	1.2	<1.0
1,2,4-Trimethylbenzene	<1.0	9.3	<1.0J	<1.0J	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	4.2	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	<10	<20	<10	<10	<10	<10
Chloroform	<2.0	<4.0	<2.0	<2.0	13	<2.0
cis-1,2-Dichloroethene	<1.0J	120	30	160	2.3	<1.0
Ethylbenzene	<1.0J	2.7	<1.0J	<1.0J	<1.0	<1.0
Naphthalene	<2.0	18	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	<1.0	<2.0	<1.0	2	6100	190
trans-1,2-Dichloroethene	<1.0	<2.0	<1.0	2.5	<1.0	<1.0
Trichloroethene	1.8	<2.0	9.3	1.2	44	<1.0J
Vinyl chloride	<2.0	<4.0J	<2.0J	<2.0J	<2.0	<2.0
o-Xylene	<1.0	7.8	<1.0	<1.0J	<1.0	<1.0
Xylene (total)	<2.0J	7.8J	<2.0J	<2.0J	<2.0J	<2.0J
TPH (mg/L)						
TPH	---	---	---	---	---	---
Lead (µg/L)						
Dissolved Lead	---	---	---	---	---	---

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

TABLE 4
Groundwater Analytical Results
June 2017 - November 2017

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	11/28/2017*	11/28/2017	11/28/2017*	Standard ¹
CONSTITUENT	Primary	Duplicate 1	Primary	
Metals (mg/L)				
Lead	<0.0050	<0.0050	<0.0050	0.03
VOCs (µg/L)				
1,1-Dichloroethane	1.2	---	<1.0	50,000
1,1-Dichloroethene	<1.0	---	<1.0	50,000
cis-1,2-Dichloroethene	<1.0J	---	<1.0	50,000
Methyltert-butylether	<1.0J	---	<1.0	50,000
Tetrachloroethene	<1.0	---	<1.0	5,000
Trichloroethene	<1.0	---	1	20,000
Vinyl chloride	18	---	<2.0	1,200

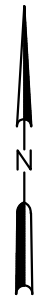
TPH Remediation Area Well			
Sample ID	CW-06	CW-06	Compliance
Date Collected	11/28/2017	11/28/2017	Standard ¹
CONSTITUENT	Primary	Duplicate	
TPH (mg/L)			
TPH	9.8	7.8	20

Sewer Interceptor Area Wells			
Sample ID	CW-01	CW-02	Compliance
Date Collected	11/28/2017	11/28/2017	Standard ²
CONSTITUENT	Primary	Primary	
VOCs (µg/L)			
1,1-Dichloroethane	<20	<1.0	120,000
1,1-Dichloroethene	<20J	<1.0	23,000
cis-1,2-Dichloroethene	800	<1.0	69,000
trans-1,2-Dichloroethene	<20J	<1.0	79,000
Tetrachloroethene	<20	<1.0	NS
Trichloroethene	<20	<1.0	87,000

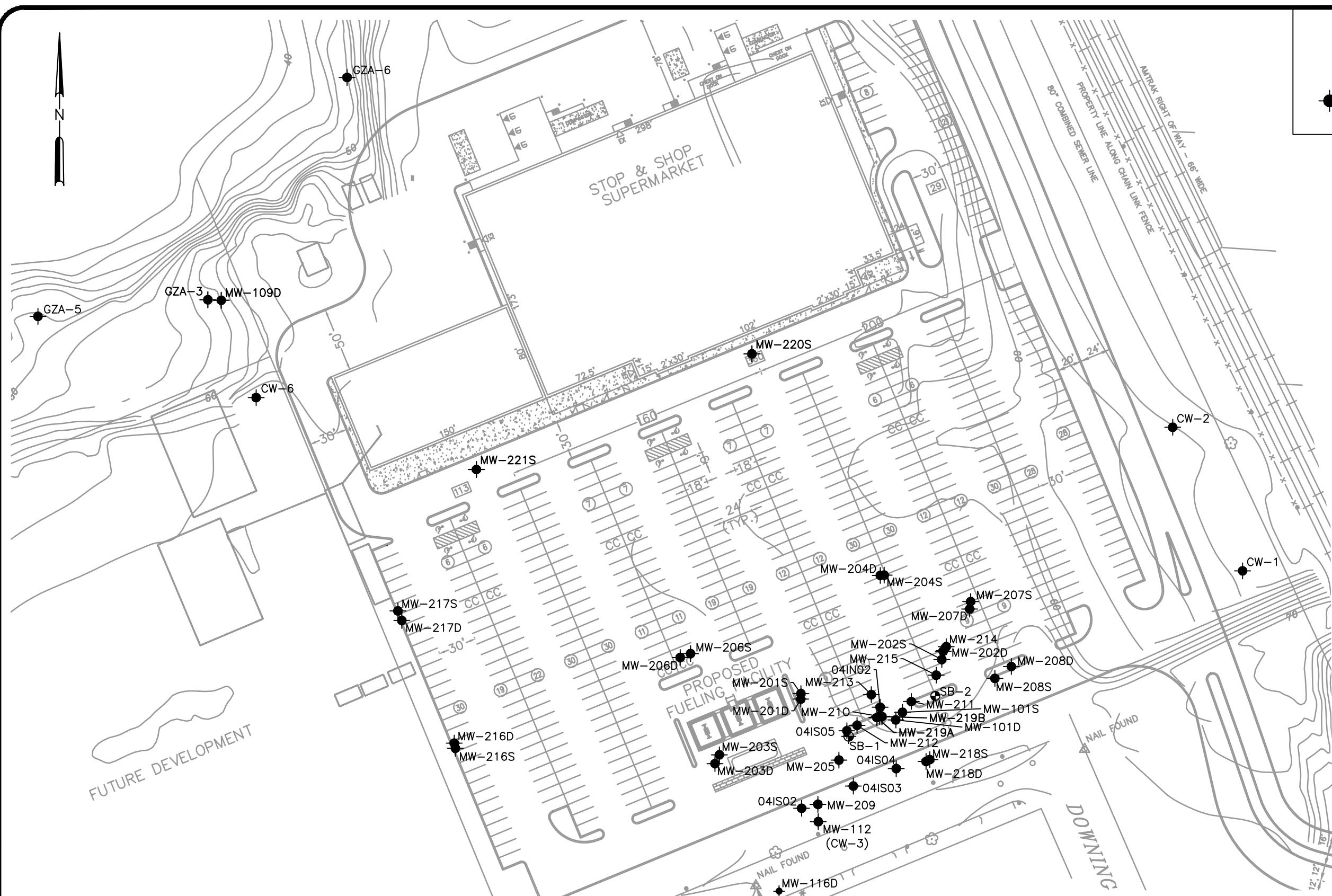
Adelaide Avenue Wells					
Sample ID	MW-112	MW-112	MW-209D	MW-218S	Compliance
Date Collected	8/17/2017	11/28/2017	11/27/2017	11/28/2017	Standard ³
CONSTITUENT	Primary	Primary	Primary	Primary	
VOCs (µg/L)					
1,1-Dichloroethane	<5.0	<2.0	<5.0	<1.0	2,400
1,1-Dichloroethene	<5.0	<2.0	<5.0J	<1.0	7
cis-1,2-Dichloroethene	<5.0	<2.0	19	<1.0	1,900
Methyltert-butylether	<5.0	<2.0	<5.0J	<1.0	5,000
Tetrachloroethene	180	130	320	190	150
Trichloroethene	<5.0	11	120	<1.0J	540
Vinyl chloride	<10	<4.0	<10	<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.
 * = VOC samples collected on 12/11/2017

FIGURES



LEGEND
 ● MW-101S MONITORING WELL



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



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

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

ATTACHMENT A

LABORATORY REPORTS

August 30, 2017

Brian Cote
CB&I Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: 333 Adelaide Ave., Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 17H1060

Enclosed are results of analyses for samples received by the laboratory on August 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "James M. Georgantas". The signature is written in a cursive style with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

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

CB&I Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Brian Cote

REPORT DATE: 8/30/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1060

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	17H1060-01	Ground Water		SW-846 8260C	
MW-116D	17H1060-02	Ground Water		SW-846 8260C	
MW-116S	17H1060-03	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-04

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

Analyte & Samples(s) Qualified:

Methyl Acetate

17H1060-01[MW-112], 17H1060-02[MW-116D], 17H1060-03[MW-116S], B185035-BLK1, B185035-BS1, B185035-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17H1060-01[MW-112]

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.



Tod E. Kopyscinski
Laboratory Director

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: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-112

Sampled: 8/17/2017 09:00

Sample ID: 17H1060-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Bromomethane	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Chloromethane	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2-Dichloroethane	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH

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: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-112

Sampled: 8/17/2017 09:00

Sample ID: 17H1060-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Methyl Acetate	ND	5.0	µg/L	5	L-04	SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Tetrachloroethylene	180	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	8/28/17	8/29/17 14:54	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		104	70-130					8/29/17 14:54	
Toluene-d8		100	70-130					8/29/17 14:54	
4-Bromofluorobenzene		92.9	70-130					8/29/17 14:54	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-116D

Sampled: 8/17/2017 09:40

Sample ID: 17H1060-02

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	8/28/17	8/29/17 14:01	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2-Dichloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH

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: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-116D

Sampled: 8/17/2017 09:40

Sample ID: 17H1060-02

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	8/28/17	8/29/17 14:01	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:01	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		112	70-130					8/29/17 14:01	
Toluene-d8		101	70-130					8/29/17 14:01	
4-Bromofluorobenzene		94.1	70-130					8/29/17 14:01	

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: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-116S

Sampled: 8/17/2017 10:40

Sample ID: 17H1060-03

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	8/28/17	8/29/17 14:28	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2-Dichloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH

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: 17H1060

Date Received: 8/18/2017

Field Sample #: MW-116S

Sampled: 8/17/2017 10:40

Sample ID: 17H1060-03

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	8/28/17	8/29/17 14:28	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/28/17	8/29/17 14:28	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	107	70-130						8/29/17 14:28	
Toluene-d8	100	70-130						8/29/17 14:28	
4-Bromofluorobenzene	93.0	70-130						8/29/17 14:28	

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
17H1060-01 [MW-112]	B185035	1	5.00	08/28/17
17H1060-02 [MW-116D]	B185035	5	5.00	08/28/17
17H1060-03 [MW-116S]	B185035	5	5.00	08/28/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185035 - SW-846 5030B

Blank (B185035-BLK1)

Prepared: 08/28/17 Analyzed: 08/29/17

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							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185035 - SW-846 5030B

Blank (B185035-BLK1)

Prepared: 08/28/17 Analyzed: 08/29/17

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	26.0		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	23.4		µg/L	25.0		93.4	70-130			

LCS (B185035-BS1)

Prepared: 08/28/17 Analyzed: 08/29/17

Acetone	87.4	50	µg/L	100		87.4	70-160			†
Acrylonitrile	7.93	5.0	µg/L	10.0		79.3	70-130			
tert-Amyl Methyl Ether (TAME)	8.51	0.50	µg/L	10.0		85.1	70-130			
Benzene	9.76	1.0	µg/L	10.0		97.6	70-130			
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromochloromethane	10.8	1.0	µg/L	10.0		108	70-130			
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130			
Bromoform	9.55	1.0	µg/L	10.0		95.5	70-130			
Bromomethane	6.20	2.0	µg/L	10.0		62.0	40-160			†
2-Butanone (MEK)	82.9	20	µg/L	100		82.9	40-160			†
tert-Butyl Alcohol (TBA)	75.0	20	µg/L	100		75.0	40-160			†
n-Butylbenzene	11.9	1.0	µg/L	10.0		119	70-130			
sec-Butylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.95	0.50	µg/L	10.0		89.5	70-130			
Carbon Disulfide	8.90	4.0	µg/L	10.0		89.0	70-130			
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130			
Chlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
Chlorodibromomethane	11.6	0.50	µg/L	10.0		116	70-130			
Chloroethane	9.68	2.0	µg/L	10.0		96.8	70-130			
Chloroform	10.1	2.0	µg/L	10.0		101	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 B185035 - SW-846 5030B										
LCS (B185035-BS1)										
					Prepared: 08/28/17 Analyzed: 08/29/17					
Chloromethane	7.94	2.0	µg/L	10.0		79.4	40-160			†
2-Chlorotoluene	8.70	1.0	µg/L	10.0		87.0	70-130			
4-Chlorotoluene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	11.2	2.0	µg/L	10.0		112	70-130			
Dichlorodifluoromethane (Freon 12)	5.00	2.0	µg/L	10.0		50.0	40-160			†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichloropropane	9.38	1.0	µg/L	10.0		93.8	70-130			
1,3-Dichloropropane	9.78	0.50	µg/L	10.0		97.8	70-130			
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130			†
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103	70-130			
cis-1,3-Dichloropropene	9.21	0.50	µg/L	10.0		92.1	70-130			
trans-1,3-Dichloropropene	9.53	0.50	µg/L	10.0		95.3	70-130			
Diethyl Ether	9.16	2.0	µg/L	10.0		91.6	70-130			
Diisopropyl Ether (DIPE)	9.42	0.50	µg/L	10.0		94.2	70-130			
1,4-Dioxane	87.6	50	µg/L	100		87.6	40-130			†
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Hexachlorobutadiene	12.3	0.60	µg/L	10.0		123	70-130			
2-Hexanone (MBK)	87.4	10	µg/L	100		87.4	70-160			†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130			
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115	70-130			
Methyl Acetate	5.61	1.0	µg/L	10.0		56.1 *	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	9.88	1.0	µg/L	10.0		98.8	70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130			
Methylene Chloride	9.86	5.0	µg/L	10.0		98.6	70-130			
4-Methyl-2-pentanone (MIBK)	85.9	10	µg/L	100		85.9	70-160			†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130			†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Styrene	9.99	1.0	µg/L	10.0		99.9	70-130			
1,1,1,2-Tetrachloroethane	9.77	1.0	µg/L	10.0		97.7	70-130			
1,1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Tetrahydrofuran	9.45	10	µg/L	10.0		94.5	70-130			
Toluene	10.2	1.0	µg/L	10.0		102	70-130			
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108	70-130			
1,2,4-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	8.60	2.0	µg/L	10.0		86.0	70-130			
1,2,3-Trichloropropane	9.59	2.0	µg/L	10.0		95.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B185035 - SW-846 5030B

LCS (B185035-BS1)

Prepared: 08/28/17 Analyzed: 08/29/17

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.92	1.0	µg/L	10.0		89.2	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160			†
m+p Xylene	20.4	2.0	µg/L	20.0		102	70-130			
o-Xylene	9.91	1.0	µg/L	10.0		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	26.3		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			

LCS Dup (B185035-BSD1)

Prepared: 08/28/17 Analyzed: 08/29/17

Acetone	94.6	50	µg/L	100		94.6	70-160	7.89	25	†
Acrylonitrile	8.87	5.0	µg/L	10.0		88.7	70-130	11.2	25	
tert-Amyl Methyl Ether (TAME)	9.29	0.50	µg/L	10.0		92.9	70-130	8.76	25	
Benzene	10.3	1.0	µg/L	10.0		103	70-130	5.09	25	
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.37	25	
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130	4.51	25	
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	0.985	25	
Bromoform	9.52	1.0	µg/L	10.0		95.2	70-130	0.315	25	
Bromomethane	7.07	2.0	µg/L	10.0		70.7	40-160	13.1	25	†
2-Butanone (MEK)	91.6	20	µg/L	100		91.6	40-160	10.0	25	†
tert-Butyl Alcohol (TBA)	83.6	20	µg/L	100		83.6	40-160	10.8	25	†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	8.31	25	
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	7.21	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	6.33	25	
tert-Butyl Ethyl Ether (TBEE)	9.71	0.50	µg/L	10.0		97.1	70-130	8.15	25	
Carbon Disulfide	8.87	4.0	µg/L	10.0		88.7	70-130	0.338	25	
Carbon Tetrachloride	9.84	5.0	µg/L	10.0		98.4	70-130	11.1	25	
Chlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130	0.807	25	
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130	4.66	25	
Chloroethane	9.92	2.0	µg/L	10.0		99.2	70-130	2.45	25	
Chloroform	10.3	2.0	µg/L	10.0		103	70-130	2.16	25	
Chloromethane	7.58	2.0	µg/L	10.0		75.8	40-160	4.64	25	†
2-Chlorotoluene	8.81	1.0	µg/L	10.0		88.1	70-130	1.26	25	
4-Chlorotoluene	9.58	1.0	µg/L	10.0		95.8	70-130	1.66	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.0		104	70-130	1.33	25	
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130	0.774	25	
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130	1.46	25	
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	3.69	25	
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	3.00	25	
1,4-Dichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130	5.66	25	
trans-1,4-Dichloro-2-butene	11.6	2.0	µg/L	10.0		116	70-130	4.03	25	
Dichlorodifluoromethane (Freon 12)	4.82	2.0	µg/L	10.0		48.2	40-160	3.67	25	†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.85	25	
1,2-Dichloroethane	9.90	1.0	µg/L	10.0		99.0	70-130	3.18	25	
1,1-Dichloroethylene	9.59	1.0	µg/L	10.0		95.9	70-130	4.58	25	
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.71	25	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	3.21	25	
1,2-Dichloropropane	9.78	1.0	µg/L	10.0		97.8	70-130	4.18	25	
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130	5.57	25	
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130	0.0982	25	†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	1.18	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185035 - SW-846 5030B										
LCS Dup (B185035-BSD1)										
					Prepared: 08/28/17 Analyzed: 08/29/17					
cis-1,3-Dichloropropene	9.03	0.50	µg/L	10.0		90.3	70-130	1.97	25	
trans-1,3-Dichloropropene	9.70	0.50	µg/L	10.0		97.0	70-130	1.77	25	
Diethyl Ether	9.58	2.0	µg/L	10.0		95.8	70-130	4.48	25	
Diisopropyl Ether (DIPE)	9.64	0.50	µg/L	10.0		96.4	70-130	2.31	25	
1,4-Dioxane	95.8	50	µg/L	100		95.8	40-130	8.90	50	† ‡
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.0988	25	
Hexachlorobutadiene	11.4	0.60	µg/L	10.0		114	70-130	7.18	25	
2-Hexanone (MBK)	93.9	10	µg/L	100		93.9	70-160	7.11	25	†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	2.10	25	
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130	5.83	25	
Methyl Acetate	5.99	1.0	µg/L	10.0		59.9 *	70-130	6.55	25	L-04
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130	8.43	25	
Methyl Cyclohexane	9.71	1.0	µg/L	10.0		97.1	70-130	4.33	25	
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130	2.80	25	
4-Methyl-2-pentanone (MIBK)	89.9	10	µg/L	100		89.9	70-160	4.57	25	†
Naphthalene	10.6	2.0	µg/L	10.0		106	40-130	3.86	25	†
n-Propylbenzene	10.0	1.0	µg/L	10.0		100	70-130	2.66	25	
Styrene	9.80	1.0	µg/L	10.0		98.0	70-130	1.92	25	
1,1,1,2-Tetrachloroethane	9.34	1.0	µg/L	10.0		93.4	70-130	4.50	25	
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130	2.76	25	
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130	4.00	25	
Tetrahydrofuran	9.77	10	µg/L	10.0		97.7	70-130	3.33	25	
Toluene	9.87	1.0	µg/L	10.0		98.7	70-130	3.39	25	
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.0		106	70-130	1.59	25	
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	0.931	25	
1,3,5-Trichlorobenzene	9.76	1.0	µg/L	10.0		97.6	70-130	2.53	25	
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130	5.46	25	
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.66	25	
Trichloroethylene	9.92	1.0	µg/L	10.0		99.2	70-130	2.19	25	
Trichlorofluoromethane (Freon 11)	8.61	2.0	µg/L	10.0		86.1	70-130	0.116	25	
1,2,3-Trichloropropane	9.88	2.0	µg/L	10.0		98.8	70-130	2.98	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.68	1.0	µg/L	10.0		86.8	70-130	2.73	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	4.56	25	
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.85	25	
Vinyl Chloride	9.49	2.0	µg/L	10.0		94.9	40-160	8.09	25	†
m+p Xylene	20.0	2.0	µg/L	20.0		99.8	70-130	2.28	25	
o-Xylene	9.72	1.0	µg/L	10.0		97.2	70-130	1.94	25	
Surrogate: 1,2-Dichloroethane-d4	27.1		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
RL-11	Elevated reporting limit due to high concentration of target compounds.

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
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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 CB+1 Env.
 Received By JM Date 8/18/17 Time 1500

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 - 4.1
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
 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? N/A Who was notified? _____
 Are there Rushes? N/A Who was notified? _____
 Are there Short Holds? N/A Who was notified? _____

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

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	9	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		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 12, 2017

Brian Cote
CB&I Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: 333 Adelaide Ave., Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 17K1581

Enclosed are results of analyses for samples received by the laboratory on November 29, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

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

CB&I Env. & Infrastructure - MA
 150 Royall Street
 Canton, MA 02021
 ATTN: Brian Cote

REPORT DATE: 12/12/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K1581

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-202S	17K1581-01	Ground Water		SW-846 8260C	
MW-202D	17K1581-02	Ground Water		SW-846 8260C	
MW-101S	17K1581-03	Ground Water		SW-846 8260C	
MW-101S Dup	17K1581-04	Ground Water		SW-846 8260C	
MW-101D	17K1581-05	Ground Water		SW-846 8260C	
MW-201D	17K1581-06	Ground Water		SW-846 8260C	
MW-216S	17K1581-07	Ground Water		SW-846 8260C	
MW-216D	17K1581-08	Ground Water		SW-846 8260C	
MW-217S	17K1581-09	Ground Water		SW-846 8260C	
MW-217D	17K1581-10	Ground Water		SW-846 8260C	
MW-209D	17K1581-11	Ground Water		SW-846 8260C	
CW-6	17K1581-12	Ground Water		SW-846 8015C	
CW-6 Dup	17K1581-13	Ground Water		SW-846 8015C	
CW-1	17K1581-14	Ground Water		SW-846 8260C	
CW-2	17K1581-15	Ground Water		SW-846 8260C	
MW-218S	17K1581-16	Ground Water		SW-846 8260C	
MW-218D	17K1581-17	Ground Water		SW-846 8260C	
MW-112	17K1581-18	Ground Water		SW-846 8260C	
MW-116S	17K1581-19	Ground Water		SW-846 8260C	
MW-116D	17K1581-20	Ground Water		SW-846 8260C	
MW-109D	17K1581-21	Ground Water		SW-846 6020A-B	
GZA-3	17K1581-22	Ground Water		SW-846 6020A-B	
GZA-3 Dup	17K1581-23	Ground Water		SW-846 6020A-B	
MW-207D	17K1581-24	Ground Water		SW-846 8260C	
MW-207S	17K1581-25	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 8015C

Qualifications:**Z-01**

Sample chromatogram does not match any of the laboratory's reference standards.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

17K1581-12[CW-6], 17K1581-13[CW-6 Dup]

SW-846 8260C

Qualifications:**L-07**

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

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

B192830-BS1, B192919-BSD1

Carbon Disulfide

B192919-BSD1

Methyl Acetate

B192830-BSD1, B192919-BSD1

R-05

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

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

17K1581-01[MW-202S], 17K1581-02[MW-202D], 17K1581-03[MW-101S], 17K1581-04[MW-101S Dup], 17K1581-05[MW-101D], 17K1581-06[MW-201D], 17K1581-08[MW-216D], 17K1581-09[MW-217S], 17K1581-10[MW-217D], 17K1581-15[CW-2], 17K1581-16[MW-218S], 17K1581-17[MW-218D], 17K1581-19[MW-116S], 17K1581-20[MW-116D], B192830-BLK1, B192830-BS1, B192830-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17K1581-03[MW-101S], 17K1581-04[MW-101S Dup], 17K1581-06[MW-201D], 17K1581-11[MW-209D], 17K1581-14[CW-1], 17K1581-18[MW-112]

RL-13

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

Analyte & Samples(s) Qualified:

17K1581-07[MW-216S]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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

17K1581-07[MW-216S], 17K1581-11[MW-209D], 17K1581-14[CW-1], 17K1581-18[MW-112], 17K1581-24[MW-207D], 17K1581-25[MW-207S], B192919-BLK1, B192919-BS1, B192919-BSD1

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:**1,4-Dioxane**

B192830-BS1, B192830-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 1)**

B192919-BS1, B192919-BSD1

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SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-202S

Sampled: 11/27/2017 11:30

Sample ID: 17K1581-01

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	12/8/17	12/9/17 17:01	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 17:01	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD

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Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-202S

Sampled: 11/27/2017 11:30

Sample ID: 17K1581-01

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	12/8/17	12/9/17 17:01	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Tetrachloroethylene	10	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:01	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	100	70-130						12/9/17 17:01	
Toluene-d8	100	70-130						12/9/17 17:01	
4-Bromofluorobenzene	97.2	70-130						12/9/17 17:01	

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Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-202D

Sampled: 11/27/2017 12:00

Sample ID: 17K1581-02

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	12/8/17	12/9/17 20:37	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 20:37	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-202D

Sampled: 11/27/2017 12:00

Sample ID: 17K1581-02

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	12/8/17	12/9/17 20:37	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
4-Methyl-2-pentanone (MIBK)	300	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Tetrachloroethylene	4.7	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:37	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.0	70-130						12/9/17 20:37	
Toluene-d8	99.6	70-130						12/9/17 20:37	
4-Bromofluorobenzene	97.0	70-130						12/9/17 20:37	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101S

Sampled: 11/27/2017 12:30

Sample ID: 17K1581-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Bromoform	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Bromomethane	ND	200	µg/L	100	R-05	SW-846 8260C	12/8/17	12/9/17 23:12	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Chloromethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101S

Sampled: 11/27/2017 12:30

Sample ID: 17K1581-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,4-Dioxane	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Hexachlorobutadiene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Methyl Acetate	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Methyl Cyclohexane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Naphthalene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Tetrachloroethylene	7300	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Trichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:12	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.0	70-130						12/9/17 23:12	
Toluene-d8	98.9	70-130						12/9/17 23:12	
4-Bromofluorobenzene	97.8	70-130						12/9/17 23:12	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101S Dup

Sampled: 11/27/2017 12:30

Sample ID: 17K1581-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Bromoform	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Bromomethane	ND	200	µg/L	100	R-05	SW-846 8260C	12/8/17	12/9/17 23:43	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Chloromethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101S Dup

Sampled: 11/27/2017 12:30

Sample ID: 17K1581-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,4-Dioxane	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Hexachlorobutadiene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Methyl Acetate	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Methyl Cyclohexane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Naphthalene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Tetrachloroethylene	6800	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Trichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/9/17 23:43	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	96.8	70-130						12/9/17 23:43	
Toluene-d8	100	70-130						12/9/17 23:43	
4-Bromofluorobenzene	96.2	70-130						12/9/17 23:43	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101D

Sampled: 11/27/2017 13:00

Sample ID: 17K1581-05

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	12/8/17	12/9/17 21:08	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 21:08	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
cis-1,2-Dichloroethylene	1.0	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-101D

Sampled: 11/27/2017 13:00

Sample ID: 17K1581-05

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	12/8/17	12/9/17 21:08	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Tetrachloroethylene	13	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:08	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	99.4	70-130						12/9/17 21:08	
Toluene-d8	101	70-130						12/9/17 21:08	
4-Bromofluorobenzene	96.9	70-130						12/9/17 21:08	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-201D

Sampled: 11/27/2017 13:30

Sample ID: 17K1581-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Bromoform	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Bromomethane	ND	200	µg/L	100	R-05	SW-846 8260C	12/8/17	12/10/17 0:14	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Chloromethane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
cis-1,2-Dichloroethylene	200	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-201D

Sampled: 11/27/2017 13:30

Sample ID: 17K1581-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,4-Dioxane	ND	5000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Hexachlorobutadiene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Methyl Acetate	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Methyl Cyclohexane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Naphthalene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Tetrachloroethylene	6700	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Trichloroethylene	300	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C	12/8/17	12/10/17 0:14	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.8	70-130						12/10/17 0:14	
Toluene-d8	100	70-130						12/10/17 0:14	
4-Bromofluorobenzene	96.3	70-130						12/10/17 0:14	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-216S

Sampled: 11/27/2017 14:00

Sample ID: 17K1581-07

Sample Matrix: Ground Water

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260C	12/11/17	12/11/17 16:10	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
cis-1,2-Dichloroethylene	120	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-216S

Sampled: 11/27/2017 14:00

Sample ID: 17K1581-07

Sample Matrix: Ground Water

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Ethylbenzene	2.7	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Hexachlorobutadiene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Naphthalene	18	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,2,4-Trimethylbenzene	9.3	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
1,3,5-Trimethylbenzene	4.2	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
o-Xylene	7.8	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 16:10	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.5	70-130						12/11/17 16:10	
Toluene-d8	101	70-130						12/11/17 16:10	
4-Bromofluorobenzene	101	70-130						12/11/17 16:10	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-216D

Sampled: 11/27/2017 14:30

Sample ID: 17K1581-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 17:32	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-216D

Sampled: 11/27/2017 14:30

Sample ID: 17K1581-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Trichloroethylene	1.8	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 17:32	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	99.0	70-130						12/9/17 17:32	
Toluene-d8	101	70-130						12/9/17 17:32	
4-Bromofluorobenzene	95.6	70-130						12/9/17 17:32	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-217S

Sampled: 11/27/2017 15:00

Sample ID: 17K1581-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 18:03	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1-Dichloroethylene	2.9	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
cis-1,2-Dichloroethylene	160	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
trans-1,2-Dichloroethylene	2.5	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-217S

Sampled: 11/27/2017 15:00

Sample ID: 17K1581-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Tetrachloroethylene	2.0	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:03	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.8	70-130						12/9/17 18:03	
Toluene-d8	100	70-130						12/9/17 18:03	
4-Bromofluorobenzene	96.8	70-130						12/9/17 18:03	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-217D

Sampled: 11/27/2017 15:30

Sample ID: 17K1581-10

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	12/8/17	12/9/17 18:34	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 18:34	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
cis-1,2-Dichloroethylene	30	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-217D

Sampled: 11/27/2017 15:30

Sample ID: 17K1581-10

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	12/8/17	12/9/17 18:34	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Trichloroethylene	9.3	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 18:34	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	99.1	70-130	12/9/17 18:34						
Toluene-d8	99.5	70-130	12/9/17 18:34						
4-Bromofluorobenzene	97.1	70-130	12/9/17 18:34						

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-209D

Sampled: 11/27/2017 16:00

Sample ID: 17K1581-11

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	250	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Bromomethane	ND	10	µg/L	5	V-05	SW-846 8260C	12/11/17	12/11/17 17:13	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Chloromethane	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
cis-1,2-Dichloroethylene	19	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-209D

Sampled: 11/27/2017 16:00

Sample ID: 17K1581-11

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	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Hexachlorobutadiene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Methyl Acetate	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Naphthalene	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Tetrachloroethylene	320	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Trichloroethylene	120	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	12/11/17	12/11/17 17:13	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		96.4	70-130					12/11/17 17:13	
Toluene-d8		99.8	70-130					12/11/17 17:13	
4-Bromofluorobenzene		98.2	70-130					12/11/17 17:13	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-6

Sampled: 11/28/2017 07:30

Sample ID: 17K1581-12

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	9.8	0.20	mg/L	1	Z-01	SW-846 8015C	12/4/17	12/8/17 21:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	96.1		40-140					12/8/17 21:57	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-6 Dup

Sampled: 11/28/2017 07:30

Sample ID: 17K1581-13

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	7.8	2.0	mg/L	10	Z-01	SW-846 8015C	12/4/17	12/9/17 14:36	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	77.1		40-140					12/9/17 14:36	

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: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-1

Sampled: 11/28/2017 08:30

Sample ID: 17K1581-14

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Bromoform	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Bromomethane	ND	40	µg/L	20	V-05	SW-846 8260C	12/11/17	12/11/17 17:44	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Chloromethane	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
cis-1,2-Dichloroethylene	800	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-1

Sampled: 11/28/2017 08:30

Sample ID: 17K1581-14

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,4-Dioxane	ND	1000	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Hexachlorobutadiene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Methyl Acetate	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Naphthalene	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Tetrachloroethylene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Trichloroethylene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C	12/11/17	12/11/17 17:44	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		96.6	70-130					12/11/17 17:44	
Toluene-d8		102	70-130					12/11/17 17:44	
4-Bromofluorobenzene		99.0	70-130					12/11/17 17:44	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-2

Sampled: 11/28/2017 09:00

Sample ID: 17K1581-15

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	12/8/17	12/9/17 19:05	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 19:05	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: CW-2

Sampled: 11/28/2017 09:00

Sample ID: 17K1581-15

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	12/8/17	12/9/17 19:05	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:05	LBD
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		96.8	70-130					12/9/17 19:05	
Toluene-d8		101	70-130					12/9/17 19:05	
4-Bromofluorobenzene		98.4	70-130					12/9/17 19:05	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-218S

Sampled: 11/28/2017 10:00

Sample ID: 17K1581-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 21:39	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-218S

Sampled: 11/28/2017 10:00

Sample ID: 17K1581-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Tetrachloroethylene	190	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 21:39	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.1	70-130						12/9/17 21:39	
Toluene-d8	99.2	70-130						12/9/17 21:39	
4-Bromofluorobenzene	96.3	70-130						12/9/17 21:39	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-218D

Sampled: 11/28/2017 10:40

Sample ID: 17K1581-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 22:10	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Chloroform	13	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1-Dichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
cis-1,2-Dichloroethylene	2.3	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-218D

Sampled: 11/28/2017 10:40

Sample ID: 17K1581-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Tetrachloroethylene	6100	250	µg/L	250		SW-846 8260C	12/8/17	12/11/17 18:46	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Trichloroethylene	44	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 22:10	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.4	70-130	12/11/17 18:46
1,2-Dichloroethane-d4	92.4	70-130	12/9/17 22:10
Toluene-d8	102	70-130	12/11/17 18:46
Toluene-d8	95.6	70-130	12/9/17 22:10
4-Bromofluorobenzene	97.8	70-130	12/11/17 18:46
4-Bromofluorobenzene	94.6	70-130	12/9/17 22:10

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-112

Sampled: 11/28/2017 11:40

Sample ID: 17K1581-18

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	12/11/17	12/11/17 18:15	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Bromomethane	ND	4.0	µg/L	2	V-05	SW-846 8260C	12/11/17	12/11/17 18:15	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-112

Sampled: 11/28/2017 11:40

Sample ID: 17K1581-18

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	12/11/17	12/11/17 18:15	LBD
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Hexachlorobutadiene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Methyl Acetate	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Tetrachloroethylene	130	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Trichloroethylene	11	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	12/11/17	12/11/17 18:15	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.8	70-130					12/11/17	18:15	
Toluene-d8	99.4	70-130					12/11/17	18:15	
4-Bromofluorobenzene	98.7	70-130					12/11/17	18:15	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-116S

Sampled: 11/28/2017 12:40

Sample ID: 17K1581-19

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	12/8/17	12/9/17 19:36	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 19:36	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-116S

Sampled: 11/28/2017 12:40

Sample ID: 17K1581-19

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	12/8/17	12/9/17 19:36	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 19:36	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.0	70-130	12/9/17 19:36						
Toluene-d8	100	70-130	12/9/17 19:36						
4-Bromofluorobenzene	97.8	70-130	12/9/17 19:36						

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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-116D

Sampled: 11/28/2017 13:40

Sample ID: 17K1581-20

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	12/8/17	12/9/17 20:07	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/8/17	12/9/17 20:07	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-116D

Sampled: 11/28/2017 13:40

Sample ID: 17K1581-20

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	12/8/17	12/9/17 20:07	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
4-Methyl-2-pentanone (MIBK)	61	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/8/17	12/9/17 20:07	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.5	70-130						12/9/17 20:07	
Toluene-d8	102	70-130						12/9/17 20:07	
4-Bromofluorobenzene	97.8	70-130						12/9/17 20:07	

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Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-109D

Sampled: 11/28/2017 14:30

Sample ID: 17K1581-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	11/30/17	12/6/17 11:40	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: 17K1581

Date Received: 11/29/2017

Field Sample #: GZA-3

Sampled: 11/28/2017 15:15

Sample ID: 17K1581-22

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	11/30/17	12/6/17 11:43	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: 17K1581

Date Received: 11/29/2017

Field Sample #: GZA-3 Dup

Sampled: 11/28/2017 15:15

Sample ID: 17K1581-23

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	11/30/17	12/6/17 11:47	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: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-207D

Sampled: 11/28/2017 00:00

Sample ID: 17K1581-24

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	12/7/17	12/11/17 21:52	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/7/17	12/11/17 21:52	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-207D

Sampled: 11/28/2017 00:00

Sample ID: 17K1581-24

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	12/7/17	12/11/17 21:52	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
4-Methyl-2-pentanone (MIBK)	82	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Tetrachloroethylene	2.1	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 21:52	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	94.8	70-130						12/11/17 21:52	
Toluene-d8	102	70-130						12/11/17 21:52	
4-Bromofluorobenzene	96.6	70-130						12/11/17 21:52	

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-207S

Sampled: 11/28/2017 00:00

Sample ID: 17K1581-25

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	12/7/17	12/11/17 22:23	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/7/17	12/11/17 22:23	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD

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

Project Location: 333 Adelaide Ave., Providence, R

Sample Description:

Work Order: 17K1581

Date Received: 11/29/2017

Field Sample #: MW-207S

Sampled: 11/28/2017 00:00

Sample ID: 17K1581-25

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	12/7/17	12/11/17 22:23	LBD
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
4-Methyl-2-pentanone (MIBK)	470	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/7/17	12/11/17 22:23	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	94.2	70-130						12/11/17 22:23	
Toluene-d8	101	70-130						12/11/17 22:23	
4-Bromofluorobenzene	94.7	70-130						12/11/17 22:23	

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K1581-21 [MW-109D]	B192138	50.0	50.0	11/30/17
17K1581-22 [GZA-3]	B192138	50.0	50.0	11/30/17
17K1581-23 [GZA-3 Dup]	B192138	50.0	50.0	11/30/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K1581-12 [CW-6]	B192388	1000	1.00	12/04/17
17K1581-13 [CW-6 Dup]	B192388	1000	1.00	12/04/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K1581-01 [MW-202S]	B192830	5	5.00	12/08/17
17K1581-02 [MW-202D]	B192830	5	5.00	12/08/17
17K1581-03 [MW-101S]	B192830	0.05	5.00	12/08/17
17K1581-04 [MW-101S Dup]	B192830	0.05	5.00	12/08/17
17K1581-05 [MW-101D]	B192830	5	5.00	12/08/17
17K1581-06 [MW-201D]	B192830	0.05	5.00	12/08/17
17K1581-08 [MW-216D]	B192830	5	5.00	12/08/17
17K1581-09 [MW-217S]	B192830	5	5.00	12/08/17
17K1581-10 [MW-217D]	B192830	5	5.00	12/08/17
17K1581-15 [CW-2]	B192830	5	5.00	12/08/17
17K1581-16 [MW-218S]	B192830	5	5.00	12/08/17
17K1581-17 [MW-218D]	B192830	5	5.00	12/08/17
17K1581-19 [MW-116S]	B192830	5	5.00	12/08/17
17K1581-20 [MW-116D]	B192830	5	5.00	12/08/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K1581-07 [MW-216S]	B192919	2.5	5.00	12/11/17
17K1581-11 [MW-209D]	B192919	1	5.00	12/11/17
17K1581-14 [CW-1]	B192919	0.25	5.00	12/11/17
17K1581-17RE1 [MW-218D]	B192919	0.02	5.00	12/08/17
17K1581-18 [MW-112]	B192919	2.5	5.00	12/11/17
17K1581-24 [MW-207D]	B192919	5	5.00	12/07/17
17K1581-25 [MW-207S]	B192919	5	5.00	12/07/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192830 - SW-846 5030B

Blank (B192830-BLK1)

Prepared: 12/08/17 Analyzed: 12/09/17

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

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192830 - SW-846 5030B

Blank (B192830-BLK1)

Prepared: 12/08/17 Analyzed: 12/09/17

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.6	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.2	70-130			

LCS (B192830-BS1)

Prepared: 12/08/17 Analyzed: 12/09/17

Acetone	108	50	µg/L	100		108	70-160			†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130			
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130			
Benzene	11.1	1.0	µg/L	10.0		111	70-130			
Bromobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Bromochloromethane	12.5	1.0	µg/L	10.0		125	70-130			
Bromodichloromethane	11.8	0.50	µg/L	10.0		118	70-130			
Bromoform	10.8	1.0	µg/L	10.0		108	70-130			
Bromomethane	6.49	2.0	µg/L	10.0		64.9	40-160	R-05		†
2-Butanone (MEK)	107	20	µg/L	100		107	40-160			†
tert-Butyl Alcohol (TBA)	109	20	µg/L	100		109	40-160			†
n-Butylbenzene	12.1	1.0	µg/L	10.0		121	70-130			
sec-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130			
tert-Butylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130			
Carbon Disulfide	10.3	4.0	µg/L	10.0		103	70-130			
Carbon Tetrachloride	11.7	5.0	µg/L	10.0		117	70-130			
Chlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
Chlorodibromomethane	11.9	0.50	µg/L	10.0		119	70-130			
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130			
Chloroform	11.4	2.0	µg/L	10.0		114	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192830 - SW-846 5030B										
LCS (B192830-BS1)										
					Prepared: 12/08/17 Analyzed: 12/09/17					
Chloromethane	9.32	2.0	µg/L	10.0		93.2	40-160			†
2-Chlorotoluene	11.7	1.0	µg/L	10.0		117	70-130			
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130			
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.0		120	70-130			
Dibromomethane	12.4	1.0	µg/L	10.0		124	70-130			
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
trans-1,4-Dichloro-2-butene	9.98	2.0	µg/L	10.0		99.8	70-130			
Dichlorodifluoromethane (Freon 12)	8.01	2.0	µg/L	10.0		80.1	40-160			†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichloropropane	11.7	1.0	µg/L	10.0		117	70-130			
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114	70-130			
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130			†
1,1-Dichloropropene	11.5	2.0	µg/L	10.0		115	70-130			
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130			
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130			
1,4-Dioxane	132	50	µg/L	100		132 *	40-130			L-07, V-20 †
Ethylbenzene	11.9	1.0	µg/L	10.0		119	70-130			
Hexachlorobutadiene	11.8	1.0	µg/L	10.0		118	70-130			
2-Hexanone (MBK)	109	10	µg/L	100		109	70-160			†
Isopropylbenzene (Cumene)	12.4	1.0	µg/L	10.0		124	70-130			
p-Isopropyltoluene (p-Cymene)	12.0	1.0	µg/L	10.0		120	70-130			
Methyl Acetate	7.27	1.0	µg/L	10.0		72.7	70-130			
Methyl tert-Butyl Ether (MTBE)	11.6	1.0	µg/L	10.0		116	70-130			
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130			
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130			
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160			†
Naphthalene	10.7	2.0	µg/L	10.0		107	40-130			†
n-Propylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Styrene	12.0	1.0	µg/L	10.0		120	70-130			
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115	70-130			
1,1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130			
Tetrachloroethylene	12.2	1.0	µg/L	10.0		122	70-130			
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130			
Toluene	11.5	1.0	µg/L	10.0		115	70-130			
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.0		115	70-130			
1,2,4-Trichlorobenzene	12.0	1.0	µg/L	10.0		120	70-130			
1,3,5-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.0		117	70-130			
Trichloroethylene	12.6	1.0	µg/L	10.0		126	70-130			
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130			
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192830 - SW-846 5030B

LCS (B192830-BS1)

Prepared: 12/08/17 Analyzed: 12/09/17

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.0		102	70-130			
1,2,4-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,3,5-Trimethylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
Vinyl Chloride	9.98	2.0	µg/L	10.0		99.8	40-160			†
m+p Xylene	24.4	2.0	µg/L	20.0		122	70-130			
o-Xylene	11.6	1.0	µg/L	10.0		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

LCS Dup (B192830-BSD1)

Prepared: 12/08/17 Analyzed: 12/09/17

Acetone	99.5	50	µg/L	100		99.5	70-160	8.30	25	†
Acrylonitrile	10.6	5.0	µg/L	10.0		106	70-130	1.33	25	
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106	70-130	1.69	25	
Benzene	10.8	1.0	µg/L	10.0		108	70-130	3.47	25	
Bromobenzene	11.3	1.0	µg/L	10.0		113	70-130	0.791	25	
Bromochloromethane	12.2	1.0	µg/L	10.0		122	70-130	2.92	25	
Bromodichloromethane	11.4	0.50	µg/L	10.0		114	70-130	3.43	25	
Bromoform	10.7	1.0	µg/L	10.0		107	70-130	0.279	25	
Bromomethane	8.49	2.0	µg/L	10.0		84.9	40-160	26.7 *	25	R-05 †
2-Butanone (MEK)	104	20	µg/L	100		104	40-160	3.12	25	†
tert-Butyl Alcohol (TBA)	109	20	µg/L	100		109	40-160	0.284	25	†
n-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130	2.77	25	
sec-Butylbenzene	11.5	1.0	µg/L	10.0		115	70-130	2.31	25	
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	2.23	25	
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130	0.485	25	
Carbon Disulfide	9.82	4.0	µg/L	10.0		98.2	70-130	4.48	25	
Carbon Tetrachloride	11.4	5.0	µg/L	10.0		114	70-130	2.94	25	
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	0.613	25	
Chlorodibromomethane	11.7	0.50	µg/L	10.0		117	70-130	1.70	25	
Chloroethane	9.90	2.0	µg/L	10.0		99.0	70-130	7.11	25	
Chloroform	11.0	2.0	µg/L	10.0		110	70-130	2.77	25	
Chloromethane	9.26	2.0	µg/L	10.0		92.6	40-160	0.646	25	†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130	2.95	25	
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	5.06	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.0		104	70-130	1.75	25	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	4.17	25	
Dibromomethane	12.1	1.0	µg/L	10.0		121	70-130	2.60	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	3.53	25	
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	0.262	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.08	25	
trans-1,4-Dichloro-2-butene	9.86	2.0	µg/L	10.0		98.6	70-130	1.21	25	
Dichlorodifluoromethane (Freon 12)	7.27	2.0	µg/L	10.0		72.7	40-160	9.69	25	†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	2.10	25	
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130	0.621	25	
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	3.32	25	
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	3.70	25	
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	2.40	25	
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130	3.31	25	
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130	2.74	25	
2,2-Dichloropropane	9.75	1.0	µg/L	10.0		97.5	40-130	4.32	25	†
1,1-Dichloropropene	11.0	2.0	µg/L	10.0		110	70-130	3.82	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192830 - SW-846 5030B

LCS Dup (B192830-BSD1)

Prepared: 12/08/17 Analyzed: 12/09/17

cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130	4.92	25	
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130	2.90	25	
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130	2.47	25	
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130	0.0952	25	
1,4-Dioxane	127	50	µg/L	100		127	40-130	3.44	50	V-20 † ‡
Ethylbenzene	11.6	1.0	µg/L	10.0		116	70-130	2.30	25	
Hexachlorobutadiene	12.5	1.0	µg/L	10.0		125	70-130	5.10	25	
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	2.11	25	†
Isopropylbenzene (Cumene)	12.0	1.0	µg/L	10.0		120	70-130	3.12	25	
p-Isopropyltoluene (p-Cymene)	11.7	1.0	µg/L	10.0		117	70-130	2.45	25	
Methyl Acetate	6.86	1.0	µg/L	10.0		68.6 *	70-130	5.80	25	L-07
Methyl tert-Butyl Ether (MTBE)	11.3	1.0	µg/L	10.0		113	70-130	2.70	25	
Methyl Cyclohexane	9.97	1.0	µg/L	10.0		99.7	70-130	6.41	25	
Methylene Chloride	11.0	5.0	µg/L	10.0		110	70-130	1.89	25	
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160	1.52	25	†
Naphthalene	10.6	2.0	µg/L	10.0		106	40-130	1.13	25	†
n-Propylbenzene	11.3	1.0	µg/L	10.0		113	70-130	3.06	25	
Styrene	11.7	1.0	µg/L	10.0		117	70-130	2.11	25	
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115	70-130	0.261	25	
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117	70-130	2.43	25	
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	3.75	25	
Tetrahydrofuran	10.8	10	µg/L	10.0		108	70-130	5.39	25	
Toluene	11.3	1.0	µg/L	10.0		113	70-130	2.02	25	
1,2,3-Trichlorobenzene	11.4	5.0	µg/L	10.0		114	70-130	0.609	25	
1,2,4-Trichlorobenzene	11.9	1.0	µg/L	10.0		119	70-130	0.668	25	
1,3,5-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.36	25	
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	4.99	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	2.43	25	
Trichloroethylene	11.5	1.0	µg/L	10.0		115	70-130	8.62	25	
Trichlorofluoromethane (Freon 11)	9.73	2.0	µg/L	10.0		97.3	70-130	6.46	25	
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109	70-130	2.05	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.52	1.0	µg/L	10.0		95.2	70-130	7.19	25	
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	4.56	25	
1,3,5-Trimethylbenzene	11.5	1.0	µg/L	10.0		115	70-130	4.16	25	
Vinyl Chloride	9.43	2.0	µg/L	10.0		94.3	40-160	5.67	25	†
m+p Xylene	23.7	2.0	µg/L	20.0		119	70-130	2.62	25	
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130	3.24	25	
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0		103	70-130			

Batch B192919 - SW-846 5030B

Blank (B192919-BLK1)

Prepared & Analyzed: 12/11/17

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192919 - SW-846 5030B

Blank (B192919-BLK1)

Prepared & Analyzed: 12/11/17

Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	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							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B192919 - SW-846 5030B

Blank (B192919-BLK1)

Prepared & Analyzed: 12/11/17

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	23.9		µg/L	25.0		95.7	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			

LCS (B192919-BS1)

Prepared & Analyzed: 12/11/17

Acetone	98.0	50	µg/L	100		98.0	70-160			†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130			
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107	70-130			
Benzene	10.9	1.0	µg/L	10.0		109	70-130			
Bromobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130			
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130			
Bromoform	11.0	1.0	µg/L	10.0		110	70-130			
Bromomethane	5.78	2.0	µg/L	10.0		57.8	40-160		V-05	†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100		112	40-160			†
n-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130			
Carbon Disulfide	13.0	4.0	µg/L	10.0		130	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
Chlorodibromomethane	11.3	0.50	µg/L	10.0		113	70-130			
Chloroethane	10.4	2.0	µg/L	10.0		104	70-130			
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			
Chloromethane	8.97	2.0	µg/L	10.0		89.7	40-160			†
2-Chlorotoluene	11.3	1.0	µg/L	10.0		113	70-130			
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.67	5.0	µg/L	10.0		96.7	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130			
Dibromomethane	11.8	1.0	µg/L	10.0		118	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192919 - SW-846 5030B										
LCS (B192919-BS1)										
Prepared & Analyzed: 12/11/17										
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	10.8	2.0	µg/L	10.0		108	70-130			
Dichlorodifluoromethane (Freon 12)	7.00	2.0	µg/L	10.0		70.0	40-160			V-34 †
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130			
2,2-Dichloropropane	11.8	1.0	µg/L	10.0		118	40-130			†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130			
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130			
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dioxane	118	50	µg/L	100		118	40-130			†
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Hexachlorobutadiene	11.5	1.0	µg/L	10.0		115	70-130			
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160			†
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130			
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130			
Methyl Acetate	7.24	1.0	µg/L	10.0		72.4	70-130			
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130			
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130			
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130			
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103	70-160			†
Naphthalene	10.7	2.0	µg/L	10.0		107	40-130			†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	11.7	1.0	µg/L	10.0		117	70-130			
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.0		119	70-130			
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Tetrahydrofuran	10.9	10	µg/L	10.0		109	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110	70-130			
1,2,4-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3,5-Trichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Trichlorofluoromethane (Freon 11)	9.35	2.0	µg/L	10.0		93.5	70-130			
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.73	1.0	µg/L	10.0		97.3	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Vinyl Chloride	9.45	2.0	µg/L	10.0		94.5	40-160			†
m+p Xylene	21.9	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.5	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192919 - SW-846 5030B										
LCS (B192919-BS1)										
Prepared & Analyzed: 12/11/17										
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.0		105	70-130			
LCS Dup (B192919-BSD1)										
Prepared & Analyzed: 12/11/17										
Acetone	100	50	µg/L	100		100	70-160	2.17	25	†
Acrylonitrile	10.6	5.0	µg/L	10.0		106	70-130	2.48	25	
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.0		110	70-130	2.22	25	
Benzene	11.3	1.0	µg/L	10.0		113	70-130	3.33	25	
Bromobenzene	11.8	1.0	µg/L	10.0		118	70-130	3.28	25	
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130	0.158	25	
Bromodichloromethane	11.6	0.50	µg/L	10.0		116	70-130	4.03	25	
Bromoform	11.7	1.0	µg/L	10.0		117	70-130	6.28	25	
Bromomethane	7.43	2.0	µg/L	10.0		74.3	40-160	25.0	25	V-05 †
2-Butanone (MEK)	107	20	µg/L	100		107	40-160	2.66	25	†
tert-Butyl Alcohol (TBA)	113	20	µg/L	100		113	40-160	1.53	25	†
n-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130	10.8	25	
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	3.84	25	
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	5.90	25	
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130	3.33	25	
Carbon Disulfide	13.3	4.0	µg/L	10.0		133 *	70-130	2.43	25	L-07
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118	70-130	6.21	25	
Chlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	4.07	25	
Chlorodibromomethane	12.0	0.50	µg/L	10.0		120	70-130	5.41	25	
Chloroethane	10.8	2.0	µg/L	10.0		108	70-130	4.53	25	
Chloroform	11.2	2.0	µg/L	10.0		112	70-130	2.64	25	
Chloromethane	9.74	2.0	µg/L	10.0		97.4	40-160	8.23	25	†
2-Chlorotoluene	11.7	1.0	µg/L	10.0		117	70-130	3.65	25	
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130	2.98	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130	12.0	25	
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.0		120	70-130	10.1	25	
Dibromomethane	12.4	1.0	µg/L	10.0		124	70-130	5.05	25	
1,2-Dichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	9.03	25	
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.31	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	5.32	25	
trans-1,4-Dichloro-2-butene	11.3	2.0	µg/L	10.0		113	70-130	3.71	25	
Dichlorodifluoromethane (Freon 12)	8.03	2.0	µg/L	10.0		80.3	40-160	13.7	25	V-34 †
1,1-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130	4.72	25	
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130	7.97	25	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	3.85	25	
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	4.21	25	
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130	3.37	25	
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130	2.63	25	
1,3-Dichloropropane	11.7	0.50	µg/L	10.0		117	70-130	5.99	25	
2,2-Dichloropropane	12.3	1.0	µg/L	10.0		123	40-130	3.90	25	†
1,1-Dichloropropene	11.5	2.0	µg/L	10.0		115	70-130	3.71	25	
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130	5.35	25	
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130	4.75	25	
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130	3.05	25	
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.0		110	70-130	5.13	25	
1,4-Dioxane	134	50	µg/L	100		134 *	40-130	12.2	50	L-07 † ‡
Ethylbenzene	11.8	1.0	µg/L	10.0		118	70-130	6.77	25	
Hexachlorobutadiene	12.1	1.0	µg/L	10.0		121	70-130	5.52	25	
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160	6.52	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192919 - SW-846 5030B										
LCS Dup (B192919-BSD1)										
Prepared & Analyzed: 12/11/17										
Isopropylbenzene (Cumene)	12.3	1.0	µg/L	10.0		123	70-130	6.38	25	
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115	70-130	3.19	25	
Methyl Acetate	6.99	1.0	µg/L	10.0		69.9 *	70-130	3.51	25	L-07
Methyl tert-Butyl Ether (MTBE)	11.6	1.0	µg/L	10.0		116	70-130	2.26	25	
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130	4.19	25	
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130	2.79	25	
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100		109	70-160	6.32	25	†
Naphthalene	11.2	2.0	µg/L	10.0		112	40-130	4.82	25	†
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130	3.83	25	
Styrene	12.0	1.0	µg/L	10.0		120	70-130	2.29	25	
1,1,1,2-Tetrachloroethane	11.8	1.0	µg/L	10.0		118	70-130	3.98	25	
1,1,2,2-Tetrachloroethane	12.3	0.50	µg/L	10.0		123	70-130	3.47	25	
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130	7.38	25	
Tetrahydrofuran	10.8	10	µg/L	10.0		108	70-130	1.29	25	
Toluene	11.5	1.0	µg/L	10.0		115	70-130	4.92	25	
1,2,3-Trichlorobenzene	12.0	5.0	µg/L	10.0		120	70-130	8.64	25	
1,2,4-Trichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	5.11	25	
1,3,5-Trichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	3.35	25	
1,1,1-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130	3.87	25	
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119	70-130	3.58	25	
Trichloroethylene	12.0	1.0	µg/L	10.0		120	70-130	5.63	25	
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130	8.89	25	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130	0.455	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106	70-130	8.09	25	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	2.93	25	
1,3,5-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130	3.97	25	
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160	7.73	25	†
m+p Xylene	23.4	2.0	µg/L	20.0		117	70-130	6.36	25	
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130	3.90	25	
Surrogate: 1,2-Dichloroethane-d4	23.1		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0		103	70-130			

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192388 - SW-846 3510C										
Blank (B192388-BLK1)										
					Prepared: 12/04/17 Analyzed: 12/06/17					
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	0.0780		mg/L	0.100		78.0	40-140			
LCS (B192388-BS1)										
					Prepared: 12/04/17 Analyzed: 12/06/17					
TPH (C9-C36)	0.795	0.20	mg/L	1.00		79.5	40-140			
Surrogate: o-Terphenyl	0.0768		mg/L	0.100		76.8	40-140			
LCS Dup (B192388-BSD1)										
					Prepared: 12/04/17 Analyzed: 12/06/17					
TPH (C9-C36)	0.762	0.20	mg/L	1.00		76.2	40-140	4.31	25	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192138 - SW-846 3005A Dissolved										
Blank (B192138-BLK1)				Prepared: 11/30/17 Analyzed: 12/06/17						
Lead	ND	5.0	µg/L							
LCS (B192138-BS1)				Prepared: 11/30/17 Analyzed: 12/06/17						
Lead	529	10	µg/L	500		106	80-120			
LCS Dup (B192138-BSD1)				Prepared: 11/30/17 Analyzed: 12/06/17						
Lead	544	10	µg/L	500		109	80-120	2.79	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
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-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-13	Elevated reporting limit due to high concentration of non-target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
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-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
Z-01	Sample chromatogram does not match any of the laboratory's reference standards.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6020A-B 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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
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	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17K1581



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: CB&I Environmental & Infrastructure, Inc.
Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelalade Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By: DANIEL R. LEMAY

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

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

Data Delivery
Format: PDF EXCEL
Other: _____

Enhanced Data Package Required:
Email To: brian.cote@cbl.com
Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	MW-2085	11/27/17	11:30	G	G	GW	U
2	MW-202D	11/27/17	12:00	G	G	GW	U
3	MW-1015	11/27/17	12:30	G	G	GW	U
4	MW-1015 DUP	11/27/17	12:30	G	G	GW	U
5	MW-101D	11/27/17	13:00	G	G	GW	U
6	MW-201D	11/27/17	13:30	G	G	GW	U
7	MW-2165	11/27/17	14:00	G	G	GW	U
8	MW-216D	11/27/17	14:30	G	G	GW	U
9	MW-2175	11/27/17	15:00	G	G	GW	U
10	MW-217D	11/27/17	15:30	G	G	GW	U

Comments:

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

Requisitioned by: (signature)	Date/Time:
<i>[Signature]</i>	11/29/17 08:00
Received by: (signature)	Date/Time:
<i>[Signature]</i>	11-29-17 46
Requisitioned by: (signature)	Date/Time:
<i>[Signature]</i>	11-29-17 14:35
Received by: (signature)	Date/Time:
<i>[Signature]</i>	11-29-17 17:30
Requisitioned by: (signature)	Date/Time:
<i>[Signature]</i>	11-29-17 18:55
Received by: (signature)	Date/Time:
<i>[Signature]</i>	11/29/17 18:55

Detection Limit Requirements
MA
CT
Other: _____

Program Information
 MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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

of Containers: 1
Preservation Code: M
Container Code: P

Dissolved/Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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

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

3	H	V	ANALYSIS REQUESTED
2	1	M	
1	1	P	
			Total Petroleum Hydrocarbons
			Dissolved Lead
			EPA 8260B (VOCs)

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: CB&I Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By: DANIEL C. LEAHY

Requested Turnaround Time
 7-Day 10-Day Other:
Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
Data Delivery
 Format: PDF EXCEL GIS Key format
 Other:
 Enhanced Data Package Required:
 Email To: brian.cote@cabi.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	MW-209D	11/27/17	1600		G	GW	U
12	CW-6	11/28/17	0730		G	GW	U
13	CW-6 DUP	11/28/17	0730		G	GW	U
14	CW-1	11/28/17	0830		G	GW	U
15	CW-2	11/28/17	0900		G	GW	U
16	MW-2185	11/28/17	1000		G	GW	U
17	MW-218D	11/28/17	1040		G	GW	U
18	MW-112	11/28/17	1190		G	GW	U
19	MW-1165	11/28/17	1240		G	GW	U
20	MW-116D	11/28/17	1340		G	GW	U

Comments:

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

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
<i>[Signature]</i>	11/29/17 0858	<i>[Signature]</i>	11/29/17 46
<i>[Signature]</i>	11-29-17 12	<i>[Signature]</i>	11-29-17 14 35
<i>[Signature]</i>	11-29-17 18:55	<i>[Signature]</i>	11-29-17
<i>[Signature]</i>	11-29-17 18:55	<i>[Signature]</i>	11-29-17 18:55

Detection Limit Requirements

MA
 CT
 Other

Program Information

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

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

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

ANALYSIS REQUESTED

Analysis	Conc Code	Matrix Code	Grab	Composite	Ending Date/Time	Beginning Date/Time
Total Petroleum Hydrocarbons	U	GW	G		1600	11/27/17
Dissolved Lead	U	GW	G		0730	11/28/17
EPA 8260B (VOCs)	U	GW	G		0730	11/28/17

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

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

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Project Manager: Brian Cote

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Invoice Recipient: Brian Cote

Sampled By:

Requested Turnaround Time
 7-Day 10-Day Other: 3-Day 4-Day
 Rush-Approval Required
 1-Day 3-Day 4-Day
 Data Delivery
 Format: PDF EXCEL GIS Key format
 Other: Enhanced Data Package Required:
 Email To: brian.cote@cbi.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
21	MW-109-D	11/28/17	1430		G	GW	U
22	GZA-3	11/28/17	1515		G	GW	U
23	GZA-3 DUP	11/28/17	1515		G	GW	U

Comments:

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

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	11/29/17 0500	MA
<i>[Signature]</i>	11/29/17 46	
<i>[Signature]</i>	11/29/17 1435	CT
<i>[Signature]</i>	11/29/17 17130	Other:

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

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

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



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 CB&I
 Received By JM Date 11/29/17 Time 1855
 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 # 557 Actual Temp - 2-8
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? F
 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? N/A Who was notified? _____
 Are there Rushes? N/A Who was notified? _____
 Are there Short Holds? N/A Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? N/A
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.
HCL-	60	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	3	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

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

Comments:

★ No vials received for MW-109D + GZA-3
 ★ Received 2 sets of vials not on chain

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: CB&I Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By: DANIEL C. LEAHY

Requested Turnaround Time
 7-Day 10-Day Other:

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

Data Delivery
 Format: PDF EXCEL GIS Key format

Other: _____

Enhanced Data Package Required:

Email To: brian.cote@cbi.com

Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
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16	MW-2185	11/28/17	1000		G	GW	U
17	MW-218D	11/28/17	1040		G	GW	U
18	MW-112	11/28/17	1190		G	GW	U
19	MW-1165	11/28/17	1240		G	GW	U
20	MW-116D	11/28/17	1340		G	GW	U

Comments:

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

Detection Limit Requirements

MA _____

CT _____

Other _____

Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	11/29/17 09:58
Received by: (signature)	Date/Time
<i>[Signature]</i>	11/29/17 14:46
Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	11/29/17 14:35
Received by: (signature)	Date/Time
<i>[Signature]</i>	11-29-17 18:55
Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	11-29-17 18:55

of Containers

2 Preservation Code

3 Container Code

Dissolved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

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

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

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

ANALYSIS REQUESTED

Conc Code	Matrix Code	Analysis
U	GW	Total Petroleum Hydrocarbons
U	GW	Dissolved Lead
U	GW	EPA 8260B (VOCs)

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

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: C&I Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By:

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

Other: _____

Rush-Approval Required
 1-Day 3-Day 5-Day
 2-Day 4-Day

Data Delivery
 Format: PDF EXCEL GIS Key format

Other: _____

Enhanced Data Package Required:

Email To: brian.cote@cbi.com

Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
21	MW-109-D	11/28/17	1430		G	GW	U
22	GZA-3	11/28/17	1515		G	GW	U
23	GZA-3 DUP	11/28/17	1515		G	GW	U
	MW-207S						
	MW-207D						

Comments:

Chain updated per client 12/11/17

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

Relinquished by: (signature)	Date/Time	Detection Limit Requirements
<i>[Signature]</i>	11/29/17 0500	MA
<i>[Signature]</i>	11/29-17 46	
<i>[Signature]</i>	11/29-17 1435	CT
<i>[Signature]</i>	11-29-17 17130	Other:
<i>[Signature]</i>	11-29-17 1855	
<i>[Signature]</i>	11/29/17 1855	

Program Information

- MCP Analytical Certification Form Required
- RCP Analysis Certification Form Required
- MA State DW Form Required
- PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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

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 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



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 CB&I
 Received By JM Date 11/29/17 Time 1855
 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 # 557 Actual Temp - 2-8
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? F
 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? N/A Who was notified? _____
 Are there Rushes? N/A Who was notified? _____
 Are there Short Holds? N/A Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? N/A
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.
HCL-	60	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	3	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

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

Comments:

★ No vials received for MW-109D + GZA-3
 ★ Received 2 sets of vials not on chain

17K1581

http://www.contestlabs.com

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East Longmeadow, MA 01028

Page 1 of 3



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: CBE Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By: *DAVID C. CARR*

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

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

Data Delivery
 Format: PDF EXCEL
 Other: _____ GIS Key format

Enhanced Data Package Required:
 Email To: brian.cote@cbe.com
 Fax To #: _____

of Containers: _____
 2 Preservation Code: _____
 3 Container Code: _____

Disolved /Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	MW-2085	11/27/17	1130	G	G	GW	U
2	MW-202D	11/27/17	1200	G	G	GW	U
3	MW-1015	11/27/17	1230	G	G	GW	U
4	MW-1015 DUP	11/27/17	1230	G	G	GW	U
5	MW-101D	11/27/17	1300	G	G	GW	U
6	MW-201D	11/27/17	1330	G	G	GW	U
7	MW-2165	11/27/17	1400	G	G	GW	U
8	MW-216D	11/27/17	1430	G	G	GW	U
9	MW-2175	11/27/17	1500	G	G	GW	U
10	MW-217D	11/27/17	1530	G	G	GW	U

EPA 8260B (VOCs)	ANALYSIS REQUESTED	Matrix Codes	Preservation Codes	Container Codes
3	?	GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil/Solid SL = Sludge O = Other (please define)	1 = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Thiosulfate O = Other (please define)	3 = Amber Glass A = Glass G = Plastic P = Sterile ST = Vial V = Summa Canister S = Tedlar Bag T = Other (please define)
H	M			
V	P			

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

Detection Limit Requirements
 MA
 CT
 Other: _____

Program Information
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required
 PWSID # _____

MELAC and AIHA-LAP, LLC Accredited

Relinquished by: (signature) *[Signature]* Date/Time: 11/29/17 0850
 Received by: (signature) *[Signature]* Date/Time: 11-29-17 12:46
 Relinquished by: (signature) *[Signature]* Date/Time: 11-29-17 14:35
 Received by: (signature) *[Signature]* Date/Time: 11-29-17 17:30
 Relinquished by: (signature) *[Signature]* Date/Time: 11-29-17 18:55
 Received by: (signature) *[Signature]* Date/Time: 11/29/17 1855

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.
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Phone: 413-525-2332
 Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: CB&I Environmental & Infrastructure, Inc.

Address: 150 Royall Street, Canton, MA 02021

Phone: 617-589-6175

Project Name: Textron Providence

Project Location: 333 Adelaide Avenue, Providence, RI

Project Number: 130274

Project Manager: Brian Cote

Con-Test Bid: PO 835493

Invoice Recipient: Brian Cote

Sampled By: DANIEL C. LEAHY

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 2 of 3

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	MW-209D	11/27/17	1600	G	G	GW	U
12	CW-6	11/28/17	0730	G	G	GW	U
13	CW-6 DUP	11/28/17	0730	G	G	GW	U
14	CW-1	11/28/17	0830	G	G	GW	U
15	CW-2	11/28/17	0900	G	G	GW	U
16	MW-2185	11/28/17	1000	G	G	GW	U
17	MW-318D	11/28/17	1040	G	G	GW	U
18	MW-112	11/28/17	1140	G	G	GW	U
19	MW-116S	11/28/17	1240	G	G	GW	U
20	MW-116D	11/28/17	1340	G	G	GW	U

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

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

Data Delivery: PDF EXCEL Other: _____

Enhanced Data Package Required: Email To: brian.cote@cbi.com Fax To #: _____

ANALYSIS REQUESTED

EPA 8260B (VOCs)							
Total Petroleum Hydrocarbons							
Dissolved Lead							

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

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

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

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

Program Information

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

Detection Limit Requirements

Relinquished by: (signature)	Date/Time: 05:00
Received by: (signature)	Date/Time: 11/29/17 14:40
Relinquished by: (signature)	Date/Time: 11/29/17 14:35
Received by: (signature)	Date/Time: 11/29/17 18:55
Relinquished by: (signature)	Date/Time: 11/29/17
Received by: (signature)	Date/Time: 11/29/17 18:55

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

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December 27, 2017

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: 17L0514

Enclosed are results of analyses for samples received by the laboratory on December 12, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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17L0514-01	5
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

REPORT DATE: 12/27/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17L0514

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-109D	17L0514-01	Ground Water		SW-846 8260C	
GZA-3	17L0514-02	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-04**

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

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

17L0514-01[MW-109D], 17L0514-02[GZA-3], B193743-BLK1, B193743-BS1, B193743-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

17L0514-01[MW-109D], 17L0514-02[GZA-3], B193743-BLK1, B193743-BS1, B193743-BSD1

1,2,4-Trichlorobenzene

17L0514-01[MW-109D], 17L0514-02[GZA-3], B193743-BLK1, B193743-BS1, B193743-BSD1

Dichlorodifluoromethane (Freon 1)

17L0514-01[MW-109D], 17L0514-02[GZA-3], B193743-BLK1, B193743-BS1, B193743-BSD1

Naphthalene

17L0514-01[MW-109D], 17L0514-02[GZA-3], B193743-BLK1, B193743-BS1, B193743-BSD1

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: 17L0514

Date Received: 12/12/2017

Field Sample #: MW-109D

Sampled: 12/11/2017 15:30

Sample ID: 17L0514-01

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	12/21/17	12/22/17 10:28	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH

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: 17L0514

Date Received: 12/12/2017

Field Sample #: MW-109D

Sampled: 12/11/2017 15:30

Sample ID: 17L0514-01

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	12/21/17	12/22/17 10:28	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:28	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Trichloroethylene	1.0	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:28	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		114	70-130					12/22/17 10:28	
Toluene-d8		92.0	70-130					12/22/17 10:28	
4-Bromofluorobenzene		83.6	70-130					12/22/17 10:28	

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: 17L0514

Date Received: 12/12/2017

Field Sample #: GZA-3

Sampled: 12/11/2017 15:00

Sample ID: 17L0514-02

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	12/21/17	12/22/17 10:52	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1-Dichloroethane	1.2	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH

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: 17L0514

Date Received: 12/12/2017

Field Sample #: GZA-3

Sampled: 12/11/2017 15:00

Sample ID: 17L0514-02

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	12/21/17	12/22/17 10:52	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Vinyl Chloride	18	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/17	12/22/17 10:52	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		116	70-130					12/22/17 10:52	
Toluene-d8		99.0	70-130					12/22/17 10:52	
4-Bromofluorobenzene		85.7	70-130					12/22/17 10:52	

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
17L0514-01 [MW-109D]	B193743	5	5.00	12/21/17
17L0514-02 [GZA-3]	B193743	5	5.00	12/21/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B193743 - SW-846 5030B

Blank (B193743-BLK1)

Prepared: 12/21/17 Analyzed: 12/22/17

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							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B193743 - SW-846 5030B

Blank (B193743-BLK1)

Prepared: 12/21/17 Analyzed: 12/22/17

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	28.4		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	21.9		µg/L	25.0		87.7	70-130			
Surrogate: 4-Bromofluorobenzene	20.3		µg/L	25.0		81.4	70-130			

LCS (B193743-BS1)

Prepared: 12/21/17 Analyzed: 12/22/17

Acetone	78.8	50	µg/L	100		78.8	70-160			†
Acrylonitrile	8.68	5.0	µg/L	10.0		86.8	70-130			
tert-Amyl Methyl Ether (TAME)	7.55	0.50	µg/L	10.0		75.5	70-130			
Benzene	9.99	1.0	µg/L	10.0		99.9	70-130			
Bromobenzene	11.0	1.0	µg/L	10.0		110	70-130			
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130			
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130			
Bromoform	11.4	1.0	µg/L	10.0		114	70-130			
Bromomethane	6.38	2.0	µg/L	10.0		63.8	40-160			†
2-Butanone (MEK)	90.1	20	µg/L	100		90.1	40-160			†
tert-Butyl Alcohol (TBA)	70.5	20	µg/L	100		70.5	40-160			†
n-Butylbenzene	9.60	1.0	µg/L	10.0		96.0	70-130			
sec-Butylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130			
tert-Butylbenzene	8.87	1.0	µg/L	10.0		88.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.51	0.50	µg/L	10.0		85.1	70-130			
Carbon Disulfide	9.28	4.0	µg/L	10.0		92.8	70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
Chloroethane	7.81	2.0	µg/L	10.0		78.1	70-130			
Chloroform	10.3	2.0	µg/L	10.0		103	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 B193743 - SW-846 5030B										
LCS (B193743-BS1)										
					Prepared: 12/21/17 Analyzed: 12/22/17					
Chloromethane	6.08	2.0	µg/L	10.0		60.8	40-160			†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130			
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130			
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.0		116	70-130			
Dibromomethane	11.5	1.0	µg/L	10.0		115	70-130			
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,4-Dichloro-2-butene	8.47	2.0	µg/L	10.0		84.7	70-130			
Dichlorodifluoromethane (Freon 12)	4.60	2.0	µg/L	10.0		46.0	40-160			V-05 †
1,1-Dichloroethane	9.60	1.0	µg/L	10.0		96.0	70-130			
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1-Dichloroethylene	8.54	1.0	µg/L	10.0		85.4	70-130			
cis-1,2-Dichloroethylene	9.54	1.0	µg/L	10.0		95.4	70-130			
trans-1,2-Dichloroethylene	9.57	1.0	µg/L	10.0		95.7	70-130			
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130			
2,2-Dichloropropane	8.19	1.0	µg/L	10.0		81.9	40-130			†
1,1-Dichloropropene	8.92	2.0	µg/L	10.0		89.2	70-130			
cis-1,3-Dichloropropene	9.06	0.50	µg/L	10.0		90.6	70-130			
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130			
Diethyl Ether	8.64	2.0	µg/L	10.0		86.4	70-130			
Diisopropyl Ether (DIPE)	9.41	0.50	µg/L	10.0		94.1	70-130			
1,4-Dioxane	120	50	µg/L	100		120	40-130			†
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Hexachlorobutadiene	10.6	0.60	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	87.7	10	µg/L	100		87.7	70-160			†
Isopropylbenzene (Cumene)	9.10	1.0	µg/L	10.0		91.0	70-130			
p-Isopropyltoluene (p-Cymene)	9.65	1.0	µg/L	10.0		96.5	70-130			
Methyl Acetate	6.34	1.0	µg/L	10.0		63.4 *	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	9.50	1.0	µg/L	10.0		95.0	70-130			
Methyl Cyclohexane	8.18	1.0	µg/L	10.0		81.8	70-130			
Methylene Chloride	9.64	5.0	µg/L	10.0		96.4	70-130			
4-Methyl-2-pentanone (MIBK)	97.9	10	µg/L	100		97.9	70-160			†
Naphthalene	7.66	2.0	µg/L	10.0		76.6	40-130			V-05 †
n-Propylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130			
Styrene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,1,1,2-Tetrachloroethane	11.7	1.0	µg/L	10.0		117	70-130			
1,1,1,2,2-Tetrachloroethane	11.6	0.50	µg/L	10.0		116	70-130			
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Tetrahydrofuran	10.7	10	µg/L	10.0		107	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	9.34	5.0	µg/L	10.0		93.4	70-130			V-05
1,2,4-Trichlorobenzene	9.05	1.0	µg/L	10.0		90.5	70-130			V-05
1,3,5-Trichlorobenzene	9.36	1.0	µg/L	10.0		93.6	70-130			
1,1,1-Trichloroethane	9.55	1.0	µg/L	10.0		95.5	70-130			
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Trichlorofluoromethane (Freon 11)	7.72	2.0	µg/L	10.0		77.2	70-130			
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B193743 - SW-846 5030B

LCS (B193743-BS1)

Prepared: 12/21/17 Analyzed: 12/22/17

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.52	1.0	µg/L	10.0		75.2	70-130			
1,2,4-Trimethylbenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
1,3,5-Trimethylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130			
Vinyl Chloride	6.84	2.0	µg/L	10.0		68.4	40-160			†
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	9.46	1.0	µg/L	10.0		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	26.3		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0		103	70-130			

LCS Dup (B193743-BSD1)

Prepared: 12/21/17 Analyzed: 12/22/17

Acetone	76.9	50	µg/L	100		76.9	70-160	2.43	25	†
Acrylonitrile	8.82	5.0	µg/L	10.0		88.2	70-130	1.60	25	
tert-Amyl Methyl Ether (TAME)	7.57	0.50	µg/L	10.0		75.7	70-130	0.265	25	
Benzene	9.86	1.0	µg/L	10.0		98.6	70-130	1.31	25	
Bromobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.37	25	
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130	2.85	25	
Bromodichloromethane	11.1	0.50	µg/L	10.0		111	70-130	1.34	25	
Bromoform	11.4	1.0	µg/L	10.0		114	70-130	0.438	25	
Bromomethane	6.71	2.0	µg/L	10.0		67.1	40-160	5.04	25	†
2-Butanone (MEK)	89.6	20	µg/L	100		89.6	40-160	0.568	25	†
tert-Butyl Alcohol (TBA)	74.6	20	µg/L	100		74.6	40-160	5.72	25	†
n-Butylbenzene	9.11	1.0	µg/L	10.0		91.1	70-130	5.24	25	
sec-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	0.505	25	
tert-Butylbenzene	8.81	1.0	µg/L	10.0		88.1	70-130	0.679	25	
tert-Butyl Ethyl Ether (TBEE)	8.52	0.50	µg/L	10.0		85.2	70-130	0.117	25	
Carbon Disulfide	8.81	4.0	µg/L	10.0		88.1	70-130	5.20	25	
Carbon Tetrachloride	9.90	5.0	µg/L	10.0		99.0	70-130	3.08	25	
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	3.98	25	
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130	2.09	25	
Chloroethane	8.32	2.0	µg/L	10.0		83.2	70-130	6.32	25	
Chloroform	9.92	2.0	µg/L	10.0		99.2	70-130	3.76	25	
Chloromethane	5.98	2.0	µg/L	10.0		59.8	40-160	1.66	25	†
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	3.04	25	
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	2.87	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.63	5.0	µg/L	10.0		96.3	70-130	12.2	25	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130	5.15	25	
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130	1.05	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.75	25	
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	5.39	25	
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.18	25	
trans-1,4-Dichloro-2-butene	8.32	2.0	µg/L	10.0		83.2	70-130	1.79	25	
Dichlorodifluoromethane (Freon 12)	4.53	2.0	µg/L	10.0		45.3	40-160	1.53	25	V-05 †
1,1-Dichloroethane	9.72	1.0	µg/L	10.0		97.2	70-130	1.24	25	
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.182	25	
1,1-Dichloroethylene	8.58	1.0	µg/L	10.0		85.8	70-130	0.467	25	
cis-1,2-Dichloroethylene	9.58	1.0	µg/L	10.0		95.8	70-130	0.418	25	
trans-1,2-Dichloroethylene	9.59	1.0	µg/L	10.0		95.9	70-130	0.209	25	
1,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	70-130	2.86	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	1.51	25	
2,2-Dichloropropane	7.83	1.0	µg/L	10.0		78.3	40-130	4.49	25	†
1,1-Dichloropropene	8.73	2.0	µg/L	10.0		87.3	70-130	2.15	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B193743 - SW-846 5030B										
LCS Dup (B193743-BSD1)										
					Prepared: 12/21/17 Analyzed: 12/22/17					
cis-1,3-Dichloropropene	8.67	0.50	µg/L	10.0		86.7	70-130	4.40	25	
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	2.90	25	
Diethyl Ether	8.63	2.0	µg/L	10.0		86.3	70-130	0.116	25	
Diisopropyl Ether (DIPE)	9.43	0.50	µg/L	10.0		94.3	70-130	0.212	25	
1,4-Dioxane	126	50	µg/L	100		126	40-130	5.05	50	† ‡
Ethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	5.33	25	
Hexachlorobutadiene	10.5	0.60	µg/L	10.0		105	70-130	1.71	25	
2-Hexanone (MBK)	85.6	10	µg/L	100		85.6	70-160	2.48	25	†
Isopropylbenzene (Cumene)	8.87	1.0	µg/L	10.0		88.7	70-130	2.56	25	
p-Isopropyltoluene (p-Cymene)	9.24	1.0	µg/L	10.0		92.4	70-130	4.34	25	
Methyl Acetate	6.56	1.0	µg/L	10.0		65.6 *	70-130	3.41	25	L-04
Methyl tert-Butyl Ether (MTBE)	9.53	1.0	µg/L	10.0		95.3	70-130	0.315	25	
Methyl Cyclohexane	7.74	1.0	µg/L	10.0		77.4	70-130	5.53	25	
Methylene Chloride	9.43	5.0	µg/L	10.0		94.3	70-130	2.20	25	
4-Methyl-2-pentanone (MIBK)	94.5	10	µg/L	100		94.5	70-160	3.59	25	†
Naphthalene	7.30	2.0	µg/L	10.0		73.0	40-130	4.81	25	V-05 †
n-Propylbenzene	9.29	1.0	µg/L	10.0		92.9	70-130	6.36	25	
Styrene	9.29	1.0	µg/L	10.0		92.9	70-130	2.02	25	
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111	70-130	4.99	25	
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130	2.19	25	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	0.187	25	
Tetrahydrofuran	10.6	10	µg/L	10.0		106	70-130	0.188	25	
Toluene	10.4	1.0	µg/L	10.0		104	70-130	2.09	25	
1,2,3-Trichlorobenzene	9.21	5.0	µg/L	10.0		92.1	70-130	1.40	25	V-05
1,2,4-Trichlorobenzene	8.65	1.0	µg/L	10.0		86.5	70-130	4.52	25	V-05
1,3,5-Trichlorobenzene	8.94	1.0	µg/L	10.0		89.4	70-130	4.59	25	
1,1,1-Trichloroethane	9.50	1.0	µg/L	10.0		95.0	70-130	0.525	25	
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130	1.76	25	
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	2.90	25	
Trichlorofluoromethane (Freon 11)	7.76	2.0	µg/L	10.0		77.6	70-130	0.517	25	
1,2,3-Trichloropropane	9.99	2.0	µg/L	10.0		99.9	70-130	2.37	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.23	1.0	µg/L	10.0		72.3	70-130	3.93	25	
1,2,4-Trimethylbenzene	9.47	1.0	µg/L	10.0		94.7	70-130	3.43	25	
1,3,5-Trimethylbenzene	9.23	1.0	µg/L	10.0		92.3	70-130	2.04	25	
Vinyl Chloride	6.78	2.0	µg/L	10.0		67.8	40-160	0.881	25	†
m+p Xylene	20.6	2.0	µg/L	20.0		103	70-130	4.60	25	
o-Xylene	9.08	1.0	µg/L	10.0		90.8	70-130	4.10	25	
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	26.3		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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
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
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
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	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
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	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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



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 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 Env.
 Received By JM Date 12/12/17 Time 1830
 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 # 577 Actual Temp - 7.6
 By Blank # Actual Temp -
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? N/A Who was notified?
 Are there Rushes? N/A Who was notified?
 Are there Short Holds? N/A Who was notified?
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? N/A
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? Acid T Base

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-	<u>6</u>	500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
Sulfuric-		Perchlorate		Ziplock	
Frozen:					

Unused Media

Vials	#	Containers:	#	#	#
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HCL-		500 mL Amb.		500 mL Plastic	
Meoh-		250 mL Amb.		250 mL Plastic	
Bisulfate-		Col./Bacteria		Flashpoint	
DI-		Other Plastic		Other Glass	
Thiosulfate-		SOC Kit		Plastic Bag	
Sulfuric-		Perchlorate		Ziplock	
Frozen:					

Comments:

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Comments: