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June 23, 2017

Project # 130274

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

Subject: Status Report: December 2016 through May 2017 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030

Dear Mr. Martella:

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

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

This status report describes groundwater monitoring activities conducted at the site by CB&I. This report includes results of groundwater sampling and analysis conducted in December 2016 and January, February, and May of 2017.

FIELD ACTIVITIES

Limited VOC Sampling Activities December 2016 and January, February and May 2017

Limited groundwater gauging and sampling was conducted on December 6, 2016, and January 11, February 14, and May 16 and 17, 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 December 6, 2016 and January 11, February 14, and May 16 and 17, 2017. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities May 2017

The monitoring wells that comprise the larger semi-annual groundwater monitoring program were monitored for field parameters and sampled for analysis on May 16 and May 17, 2017.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on May 16 and 17, 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 May 16 and 17, 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 8015 C) from monitoring well CW-6. Samples were also collected for lead analysis (EPA Method 6020A-B) from monitoring wells MW-109D and GZA-3. One duplicate sample was also collected from GZA-3 (GZA-3 DUP) for lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

SUMMARY OF ANALYTICAL DATA

A summary of the analytical data associated with the groundwater sampling conducted on December 6, 2016 and January 11, February 14, and May 16 and 17, 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 except for one well. On May 16, 2017 both the primary and duplicate samples collected from MW-101S had PCE concentrations of 9,200 µg/L and 8,700 µg/L, respectively. During this reporting period the reported PCE concentrations in well MW-112 were: 170 µg/L on December 6, 2016, 450 µg/L on January 11, 400 µg/L on February 14, and 400 µg/L on May 16, 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 the Adelaide Avenue well MW-112 for PCE on December 6, 2016 and January 11, February 14, and May 16, 2017 and MW-209D on May 16, 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 August 2017 and the larger semi-annual sampling event will be conducted in November 2017.

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 – December 2016 – May 2017
Table 4 – Groundwater Analytical Results in Compliance Wells – December 2016 – May 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 CB&I Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated June 23, 2017, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Brian J. Cote
Senior Project Manager

6/23/17
Date:

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

Certification on behalf of Textron Inc.

Gregory L. Simpson
Project Manager

6/29/17
Date:

TABLES

Table 1
Summary Field Parameters
December 2016 - May 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	5/16/2017	6.16	15	0.011	5.14	168.1
MW-101S	5/16/2017	5.8	14.8	0.81	0.65	138.9
MW-112	5/16/2017	5.8	14.1	1.59	5.05	234
MW-116D	5/17/2017	7.21	14.4	0.444	3.34	173.4
MW-116S	5/17/2017	6.53	15.1	0.19	7.67	155.2
MW-201D	5/16/2017	6.65	14.7	0.63	4.24	206.7
MW-202D	5/16/2017	6.68	15.9	0.081	5.42	148.2
MW-202S	5/16/2017	6.13	15.7	0.431	0.61	152.4
MW-207D	5/16/2017	6.45	15.9	0.541	2.17	99.7
MW-207S	5/16/2017	6.61	15.8	0.73	3.79	15.51
MW-209D	5/16/2017	5.96	14.3	0.51	3.51	212.7
MW-216D	5/16/2017	6.73	15.7	0.56	0.25	-64.1
MW-216S	5/16/2017	6.54	15.9	1.31	0.16	-78
MW-217D	5/16/2017	6.51	15.1	1	0.13	-20.8
MW-217S	5/16/2017	6.7	14.2	0.66	1.04	1.9
MW-218D	5/16/2017	5.93	14.1	0.153	5.4	195.5
MW-218S	5/16/2017	4.67	13.9	0.75	2.34	246.3

Notes:

Notes:

C° = degrees Celsius

mS/cm = millisiemens per centimeter

mg/L = milligrams per liter

mV = milli volts

TABLE 2
GROUNDWATER ELEVATION DATA
(12/06/16 - 05/17/17)

05/31/17

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	05/17/17	99.52	24.71	--	--	74.81	DTB = 54.75'
CW-02	05/17/17	98.86	23.91	--	--	74.95	DTB = 54.55'
CW-06	05/17/17	99.52	26.59	--	--	72.93	DTB = 33.10'
GZA-3	05/17/17	NA	16.09	--	--	NA	DTB = 22.00'
MW-101D	05/16/17	98.91	24.03	--	--	74.88	DTB = 46.05'
MW-101S	05/16/17	98.90	24.14	--	--	74.76	DTB = 28.40'
MW-109D	05/17/17	NA	17.98	--	--	NA	DTB = 74.75'
MW-112	12/06/16	100.63	26.51	--	--	74.12	DTB = 28.80'
MW-112	01/11/17	100.63	28.19	--	--	72.44	DTB = 35.00'
MW-112	02/14/17	100.63	27.68	--	--	72.95	DTB = 34.78'
MW-112	05/16/17	100.63	25.80	--	--	74.83	DTB = 34.71'
MW-116D	12/06/16	98.92	26.08	--	--	72.84	DTB = 44.25'
MW-116D	01/11/17	98.92	25.85	--	--	73.07	DTB = 43.90'
MW-116D	02/14/17	98.92	25.70	--	--	73.22	DTB = 44.35'
MW-116D	05/17/17	98.92	24.03	--	--	74.89	DTB = 44.30'
MW-116S	12/06/16	99.40	28.40	--	--	71.00	DTB = 35.10'
MW-116S	01/11/17	99.40	26.29	--	--	73.11	DTB = 29.30'
MW-116S	02/14/17	99.40	23.89	--	--	75.51	DTB = 29.62'
MW-116S	05/17/17	99.40	24.47	--	--	74.93	DTB = 28.65'
MW-201D	05/16/17	98.80	23.92	--	--	74.88	DTB = 47.39'
MW-202D	05/16/17	98.17	23.35	--	--	74.82	DTB = 47.39'
MW-202S	05/16/17	98.06	23.28	--	--	74.78	DTB = 38.05'
MW-207D	05/16/17	98.18	23.41	--	--	74.77	DTB = 50.91'
MW-207S	05/16/17	98.28	23.48	--	--	74.80	DTB = 37.55'
MW-209D	05/16/17	99.90	25.51	--	--	74.39	DTB = 62.27'
MW-216D	05/16/17	98.69	24.63	--	--	74.06	DTB = 39.40'
MW-216S	05/16/17	99.58	24.63	--	--	74.95	DTB = 29.65'
MW-217D	05/16/17	98.65	23.96	--	--	74.69	DTB = 46.72'
MW-217S	05/16/17	98.71	23.98	--	--	74.73	DTB = 26.33'
MW-218D	05/16/17	99.67	24.84	--	--	74.83	DTB = 46.73'
MW-218S	05/16/17	99.61	24.78	--	--	74.83	DTB = 29.55'
MW-220S	05/17/17	99.41	24.50	24.49	0.01	74.92	DTB = 31.87'

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

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2016 - May 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT (µg/L)	CW-01 5/17/2017 Primary	CW-02 5/17/2017 Primary	CW-06 5/17/2017 Primary	CW-06 5/17/2017 Duplicate 1	GZA-3 5/17/2017 Primary	GZA-3 5/17/2017 Duplicate 1	MW-101D 5/16/2017 Primary	MW-101S 5/16/2017 Primary	MW-101S 5/16/2017 Duplicate 1	MW-109D 5/17/2017 Primary
VOCs										
1,1-Dichloroethene	<20J	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
1,2,4-Trimethylbenzene	<20	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
1,3,5-Trimethylbenzene	<20	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
cis-1,2-Dichloroethene	360	<1.0	---	---	2.6	---	<1.0	<250	<250	<1.0
Ethylbenzene	<20	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
Methyltert-butylether	<20	<1.0	---	---	<1.0J	---	<1.0	<250	<250	<1.0
Naphthalene	<100	<5.0	---	---	<5.0	---	<5.0	<1200	<1200	<5.0
Tetrachloroethene	<20	<1.0	---	---	<1.0	---	13	9200	8700	<1.0
Toluene	<20	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
trans-1,2-Dichloroethene	<20J	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
Trichloroethene	970	<1.0J	---	---	<1.0J	---	<1.0	<250	<250	<1.0J
Vinyl chloride	<40	<2.0	---	---	12	---	<2.0	<500	<500	<2.0
m/p-xylene	<40	<2.0	---	---	<2.0	---	<2.0	<500	<500	<2.0
o-Xylene	<20	<1.0	---	---	<1.0	---	<1.0	<250	<250	<1.0
Xylene (total)	<40	<2.0	---	---	<2.0	---	<2.0	<500	<500	<2.0
TPH (mg/L)										
TPH	---	---	9.4	9.2	---	---	---	---	---	---
Lead										
Dissolved Lead	---	---	---	---	8.7	<5.0J	---	---	---	<5.0

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter
EPH = Extractable Petroleum Hydrocarbons
-- = Not analyzed for
J = Result is an estimated value

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2016 - May 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT (µg/L)	MW-112 12/6/2016 Primary	MW-112 1/11/2017 Primary	MW-112 2/14/2017 Primary	MW-112 5/16/2017 Primary	MW-116D 12/6/2016 Primary	MW-116D 1/11/2017 Primary	MW-116D 2/14/2017 Primary	MW-116D 5/17/2017 Primary	MW-116S 12/6/2016 Primary	MW-116S 1/11/2017 Primary
VOCs										
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<5.0	<5.0	<5.0J	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyltert-butylether	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<10	<10	<10	<25	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0
Tetrachloroethene	170	450	400	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	11	27	32	9.8	<1.0J	<1.0J	<1.0	<1.0J	<1.0	<1.0
Vinyl chloride	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m/p-xylene	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (total)	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TPH (mg/L)										
TPH	---	---	---	---	---	---	---	---	---	---
Lead										
Dissolved Lead	---	---	---	---	---	---	---	---	---	---

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter
EPH = Extractable Petroleum Hydrocarbons
-- = Not analyzed for
J = Result is an estimated value

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2016 - May 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT (µg/L)	MW-116S 2/14/2017 Primary	MW-116S 5/17/2017 Primary	MW-201D 5/16/2017 Primary	MW-202D 5/16/2017 Primary	MW-202S 5/16/2017 Primary	MW-207D 5/16/2017 Primary	MW-207S 5/16/2017 Primary	MW-209D 5/16/2017 Primary	MW-216D 5/16/2017 Primary	MW-216S 5/16/2017 Primary
VOCs										
1,1-Dichloroethene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	5.2	<1.0	<2.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	17
1,3,5-Trimethylbenzene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	8.7
cis-1,2-Dichloroethene	<1.0	<1.0	<50	<1.0J	<1.0	4	<1.0	22	<1.0J	110
Ethylbenzene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	4.4
Methyltert-butylether	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<2.0
Naphthalene	<2.0	<5.0	<250	<5.0	<5.0	<5.0	<5.0	<10	<5.0	33
Tetrachloroethene	<1.0	<1.0	5500	28	8.9	4.3	9.4	350	<1.0J	<2.0J
Toluene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	2
trans-1,2-Dichloroethene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<2.0
Trichloroethene	<1.0	<1.0	160	1.4	<1.0J	<1.0J	1.7	160	<1.0J	<2.0
Vinyl chloride	<2.0	<2.0	<100	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0
m/p-xylene	<2.0	<2.0	<100	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	5.9
o-Xylene	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	14
Xylene (total)	<2.0	<2.0	<100	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	20
TPH (mg/L)										
TPH	---	---	---	---	---	---	---	---	---	---
Lead										
Dissolved Lead	---	---	---	---	---	---	---	---	---	---

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter
EPH = Extractable Petroleum Hydrocarbons
-- = Not analyzed for
J = Result is an estimated value

TABLE 3
Groundwater Analytical Results Detected Compounds
December 2016 - May 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT (µg/L)	MW-217D 5/16/2017 Primary	MW-217S 5/16/2017 Primary	MW-218D 5/16/2017 Primary	MW-218S 5/16/2017 Primary
VOCs				
1,1-Dichloroethene	<1.0J	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0J	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	87	<1.0	<1.0	<1.0
Ethylbenzene	<1.0J	<1.0	<1.0	<1.0
Methyltert-butylether	<1.0	<1.0	<1.0	<1.0
Naphthalene	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	<1.0	7.3	27	43
Toluene	<1.0J	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene	4.8	<1.0J	1.8	<1.0
Vinyl chloride	<2.0J	<2.0	<2.0	<2.0
m/p-xylene	<2.0	<2.0	<2.0	<2.0
o-Xylene	<1.0	<1.0	<1.0	<1.0
Xylene (total)	<2.0	<2.0	<2.0	<2.0
TPH (mg/L)				
TPH	---	---	---	---
Lead				
Dissolved Lead	---	---	---	---

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter
EPH = Extractable Petroleum Hydrocarbons
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TABLE 4
Groundwater Analytical Results
December 2016 - May 2017

Former Gorham Manufacturing Facility
Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	**GZA-3**	**GZA-3**	**MW-109D**	**Compliance**
Date Collected	**5/17/2017**	**5/17/2017**	**5/17/2017**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate 1**	**Primary**	
Metals (mg/L)				
Lead	0.0087	<0.0050J	<0.0050	0.03
VOCs (µg/L)				
1,1-Dichloroethane	<1.0J	---	<1.0	50,000
1,1-Dichloroethene	<1.0	---	<1.0	50,000
cis-1,2-Dichloroethene	2.6	---	<1.0	50,000
Methyltert-butylether	<1.0J	---	<1.0	50,000
Tetrachloroethene	<1.0	---	<1.0	5,000
Trichloroethene	<1.0J	---	<1.0J	20,000
Vinyl chloride	12	---	<2.0	1,200

TPH Remediation Area Well			
Sample ID	**CW-06**	**CW-06**	**Compliance**
Date Collected	**5/17/2017**	**5/17/2017**	**Standard[1]**
CONSTITUENT	**Primary**	**Duplicate**	
TPH (mg/L)			
TPH	9.4	9.2	20

Sewer Interceptor Area Wells			
Sample ID	**CW-01**	**CW-02**	**Compliance**
Date Collected	**5/17/2017**	**5/17/2017**	**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	360	<1.0	69,000
trans-1,2-Dichloroethene	<20J	<1.0	79,000
Tetrachloroethene	<20	<1.0	NS
Trichloroethene	970	<1.0J	87,000

Adelaide Avenue Wells							
Sample ID	**MW-112**	**MW-112**	**MW-112**	**MW-112**	**MW-209D**	**MW-218S**	**Compliance**
Date Collected	**12/6/2016**	**1/11/2017**	**2/14/2017**	**5/16/2017**	**5/16/2017**	**5/16/2017**	**Standard[3]**
CONSTITUENT	**Primary**	**Primary**	**Primary**	**Primary**	**Primary**	**Primary**	
VOCs (µg/L)							
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<2.0J	<1.0	2,400
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	5.2	<1.0	7
cis-1,2-Dichloroethene	<5.0	<5.0	<5.0J	<5.0	22	<1.0	1,900
Methyltert-butylether	<5.0	<5.0	<5.0	<5.0	2.4	<1.0	5,000
Tetrachloroethene	170	450	400	400	350	43	150
Trichloroethene	11	27	32	9.8	160	<1.0	540
Vinyl chloride	<10	<10	<10	<10	<4.0	<2.0	2

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

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

FIGURES

LEGEND

MW-101S MONITORING WELL

N

GZA-6
GZA-3
MW-109D
GZA-5
CW-6
MW-220S
MW-221S
CW-2
CW-1
MW-217S
MW-217D
MW-206S
MW-206D
MW-204D
MW-204S
MW-207S
MW-207D
MW-202S
MW-214
MW-202D
MW-215
MW-208D
MW-208S
04IN02
MW-201S
MW-213
SB-2
MW-211
MW-101S
MW-201D
MW-210
MW-219B
MW-219A
MW-101D
04IS05
SB-1
MW-212
MW-203S
MW-203D
MW-205
04IS04
MW-218S
MW-218D
04IS03
04IS02
MW-209
MW-112
(CW-3)
MW-116D
MW-116S
MW-216D
MW-216S

STOP & SHOP SUPERMARKET

PROPOSED FUELING FACILITY

FUTURE DEVELOPMENT

80' COMBINED SEWER LINE

PROPERTY LINE ALONG CHAIN LINK FENCE

AMTRAK RIGHT OF WAY - 66' WIDE

NAIL FOUND

NAIL FOUND

DOWNING

30.00'

0 80 160

SCALE IN FEET

1" 1/2" 0" 1"

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SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

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

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

LEGEND

MW-101S — MONITORING WELL

SB-2 — SOIL BORING

04IS01 — INJECTION WELL

MW-204D
MW-204S
MW-207D
MW-207S
MW-206S
MW-206D
MW-201S
MW-201D
MW-208D
MW-208S
MW-202S
04IN04
04IN03
04IN02
04IN01
SB-2
MW-101S
MW-101D
04IS05
SB-1
MW-203S
MW-203D
MW-205
04IS04
04IS03
04IS02
MW-209D
04IS01
MW-112
(CW-3)
MW-116D
MW-116S
NAIL FOUND
NAIL FOUND
PROPOSED FUELING FACILITY
CC CC
24' (TYP.)
18'
9'
30.00'
DOWNING
TREATMENT AREA
N

0 40 80
SCALE IN FEET

SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

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

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

1" 1/2" 0" 1"

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ATTACHMENT A

LABORATORY REPORTS

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

December 21, 2016

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

Project Location: Textron Providence
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16L0319

Enclosed are results of analyses for samples received by the laboratory on December 8, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

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: 12/21/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16L0319

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

PROJECT LOCATION: Textron Providence

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	16L0319-01	Ground Water		SW-846 8260C	
MW-116D	16L0319-02	Ground Water		SW-846 8260C	
MW-116S (3/4")	16L0319-03	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

L-02

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

Analyte & Samples(s) Qualified:

Carbon Disulfide
B166107-BS1, B166107-BSD1

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:

1,2,3-Trichlorobenzene
B166107-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

16L0319-01[MW-112]

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
16L0319-01[MW-112], 16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1, B166107-BLK1, B166107-BS1, B166107-BSD1

1,2,4-Trichlorobenzene
16L0319-01[MW-112], 16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1, B166107-BLK1, B166107-BS1, B166107-BSD1

1,2-Dibromo-3-chloropropane (DB
16L0319-01[MW-112], 16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1, B166107-BLK1, B166107-BS1, B166107-BSD1

Dichlorodifluoromethane (Freon 1
16L0319-01[MW-112], 16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1, B166107-BLK1, B166107-BS1, B166107-BSD1

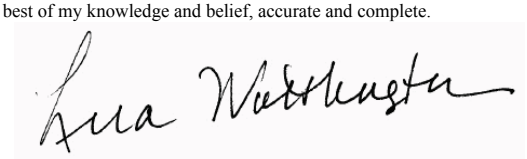
Naphthalene
16L0319-01[MW-112], 16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1, B166107-BLK1, B166107-BS1, B166107-BSD1

tert-Amyl Methyl Ether (TAME)
16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1

Tetrahydrofuran
16L0319-02[MW-116D], 16L0319-03[MW-116S (3/4")], B165947-BLK1, B165947-BS1, B165947-BSD1

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

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



Lisa A. Worthington
Project Manager

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-112 | Sampled: 12/6/2016 07:00

Sample ID: 16L0319-01

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	12/16/16	12/20/16 13:42	MFF
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Benzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Bromomethane	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Chloroethane	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Chloroform	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Chloromethane	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
2-Chlorotoluene	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5	V-05	SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5	V-05	SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-112 | Sampled: 12/6/2016 07:00

Sample ID: 16L0319-01

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	12/16/16	12/20/16 13:42	MFF
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Methyl Acetate	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Naphthalene	ND	10	µg/L	5	V-05	SW-846 8260C	12/16/16	12/20/16 13:42	MFF
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Styrene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Tetrachloroethylene	170	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Toluene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2,3-Trichlorobenzene	ND	25	µg/L	5	V-05	SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5	V-05	SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Trichloroethylene	11	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	12/16/16	12/20/16 13:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/20/16 13:42
Toluene-d8	82.4	70-130		12/20/16 13:42
4-Bromofluorobenzene	80.0	70-130		12/20/16 13:42

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-116D | Sampled: 12/6/2016 06:00

Sample ID: 16L0319-02

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	12/16/16	12/16/16 15:52	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
2-Chlorotoluene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-116D | Sampled: 12/6/2016 06:00

Sample ID: 16L0319-02

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	12/16/16	12/16/16 15:52	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 15:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		12/16/16 15:52
Toluene-d8	89.9	70-130		12/16/16 15:52
4-Bromofluorobenzene	79.9	70-130		12/16/16 15:52

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-116S (3/4") | Sampled: 12/6/2016 05:30

Sample ID: 16L0319-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
2-Chlorotoluene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF

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

Project Location: Textron Providence | Sample Description: | Work Order: 16L0319

Date Received: 12/8/2016

Field Sample #: MW-116S (3/4") | Sampled: 12/6/2016 05:30

Sample ID: 16L0319-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Tetrahydrofuran	ND	10	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/16/16	12/16/16 16:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	119	70-130		12/16/16 16:15
Toluene-d8	93.2	70-130		12/16/16 16:15
4-Bromofluorobenzene	82.0	70-130		12/16/16 16:15

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
16L0319-02 [MW-116D]	B165947	5	5.00	12/16/16
16L0319-03 [MW-116S (3/4")]	B165947	5	5.00	12/16/16

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16L0319-01 [MW-112]	B166107	1	5.00	12/16/16

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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 B165947 - SW-846 5030B										
Blank (B165947-BLK1)				Prepared & Analyzed: 12/16/16						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							V-05
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	2.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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							

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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 B165947 - SW-846 5030B											
Blank (B165947-BLK1)				Prepared & Analyzed: 12/16/16							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L							V-05	
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L							V-05	
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L							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	*29.5*		µg/L	25.0		118	70-130				
Surrogate: Toluene-d8	*22.9*		µg/L	25.0		91.6	70-130				
Surrogate: 4-Bromofluorobenzene	*20.8*		µg/L	25.0		83.1	70-130				
LCS (B165947-BS1)				Prepared & Analyzed: 12/16/16							
Acetone	83.6	50	µg/L	100		83.6	70-160				†
Acrylonitrile	9.18	5.0	µg/L	10.0		91.8	70-130				
tert-Amyl Methyl Ether (TAME)	8.52	0.50	µg/L	10.0		85.2	70-130			V-05	
Benzene	9.60	1.0	µg/L	10.0		96.0	70-130				
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130				
Bromochloromethane	9.87	1.0	µg/L	10.0		98.7	70-130				
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130				
Bromoform	9.81	1.0	µg/L	10.0		98.1	70-130				
Bromomethane	8.11	2.0	µg/L	10.0		81.1	40-160				†
2-Butanone (MEK)	79.9	20	µg/L	100		79.9	40-160				†
tert-Butyl Alcohol (TBA)	85.6	20	µg/L	100		85.6	40-160				†
n-Butylbenzene	9.07	1.0	µg/L	10.0		90.7	70-130				
sec-Butylbenzene	9.41	1.0	µg/L	10.0		94.1	70-130				
tert-Butylbenzene	9.20	1.0	µg/L	10.0		92.0	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.31	0.50	µg/L	10.0		93.1	70-130				
Carbon Disulfide	11.8	4.0	µg/L	10.0		118	70-130				
Carbon Tetrachloride	9.87	5.0	µg/L	10.0		98.7	70-130				
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130				
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130				
Chloroform	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	
Batch B165947 - SW-846 5030B											
LCS (B165947-BS1)				Prepared & Analyzed: 12/16/16							
Chloromethane	11.1	2.0	µg/L	10.0		111	40-160				†
2-Chlorotoluene	9.49	2.0	µg/L	10.0		94.9	70-130				
4-Chlorotoluene	9.41	1.0	µg/L	10.0		94.1	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.76	5.0	µg/L	10.0		77.6	70-130			V-05	
1,2-Dibromoethane (EDB)	9.91	0.50	µg/L	10.0		99.1	70-130				
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130				
1,2-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130				
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130				
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130				
trans-1,4-Dichloro-2-butene	9.63	2.0	µg/L	10.0		96.3	70-130				
Dichlorodifluoromethane (Freon 12)	13.9	2.0	µg/L	10.0		139	40-160			V-05	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130				
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130				
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130				
cis-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130				
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130				
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130				
1,3-Dichloropropane	9.73	0.50	µg/L	10.0		97.3	70-130				
2,2-Dichloropropane	11.9	1.0	µg/L	10.0		119	40-130				†
1,1-Dichloropropene	9.54	2.0	µg/L	10.0		95.4	70-130				
cis-1,3-Dichloropropene	8.36	0.50	µg/L	10.0		83.6	70-130				
trans-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0	70-130				
Diethyl Ether	9.89	2.0	µg/L	10.0		98.9	70-130				
Diisopropyl Ether (DIPE)	8.97	0.50	µg/L	10.0		89.7	70-130				
1,4-Dioxane	110	50	µg/L	100		110	40-130				†
Ethylbenzene	8.84	1.0	µg/L	10.0		88.4	70-130				
Hexachlorobutadiene	9.63	0.60	µg/L	10.0		96.3	70-130				
2-Hexanone (MBK)	75.1	10	µg/L	100		75.1	70-160				†
Isopropylbenzene (Cumene)	9.42	1.0	µg/L	10.0		94.2	70-130				
p-Isopropyltoluene (p-Cymene)	8.98	1.0	µg/L	10.0		89.8	70-130				
Methyl Acetate	8.83	1.0	µg/L	10.0		88.3	70-130				
Methyl tert-Butyl Ether (MTBE)	9.50	1.0	µg/L	10.0		95.0	70-130				
Methyl Cyclohexane	8.73	1.0	µg/L	10.0		87.3	70-130				
Methylene Chloride	9.72	5.0	µg/L	10.0		97.2	70-130				
4-Methyl-2-pentanone (MIBK)	78.2	10	µg/L	100		78.2	70-160				†
Naphthalene	7.73	2.0	µg/L	10.0		77.3	40-130			V-05	†
n-Propylbenzene	8.76	1.0	µg/L	10.0		87.6	70-130				
Styrene	8.89	1.0	µg/L	10.0		88.9	70-130				
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100	70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130				
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130				
Tetrahydrofuran	8.19	10	µg/L	10.0		81.9	70-130			V-05	
Toluene	10.5	1.0	µg/L	10.0		105	70-130				
1,2,3-Trichlorobenzene	7.73	5.0	µg/L	10.0		77.3	70-130			V-05	
1,2,4-Trichlorobenzene	7.41	1.0	µg/L	10.0		74.1	70-130			V-05	
1,3,5-Trichlorobenzene	8.25	1.0	µg/L	10.0		82.5	70-130				
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130				
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0		112	70-130				
1,2,3-Trichloropropane	9.57	2.0	µg/L	10.0		95.7	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B165947 - SW-846 5030B											
LCS (B165947-BS1)				Prepared & Analyzed: 12/16/16							
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	8.71	1.0	µg/L	10.0		87.1	70-130				
1,3,5-Trimethylbenzene	8.78	1.0	µg/L	10.0		87.8	70-130				
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160				†
m+p Xylene	17.5	2.0	µg/L	20.0		87.6	70-130				
o-Xylene	9.02	1.0	µg/L	10.0		90.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		102	70-130				
Surrogate: Toluene-d8	*27.0*		µg/L	25.0		108	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.5	70-130				
LCS Dup (B165947-BSD1)				Prepared & Analyzed: 12/16/16							
Acetone	84.0	50	µg/L	100		84.0	70-160	0.597	25		†
Acrylonitrile	9.60	5.0	µg/L	10.0		96.0	70-130	4.47	25		
tert-Amyl Methyl Ether (TAME)	8.65	0.50	µg/L	10.0		86.5	70-130	1.51	25	V-05	
Benzene	9.87	1.0	µg/L	10.0		98.7	70-130	2.77	25		
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.0959	25		
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	2.01	25		
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	0.756	25		
Bromoform	10.3	1.0	µg/L	10.0		103	70-130	4.68	25		
Bromomethane	9.51	2.0	µg/L	10.0		95.1	40-160	15.9	25		†
2-Butanone (MEK)	82.3	20	µg/L	100		82.3	40-160	2.93	25		†
tert-Butyl Alcohol (TBA)	88.3	20	µg/L	100		88.3	40-160	3.07	25		†
n-Butylbenzene	9.13	1.0	µg/L	10.0		91.3	70-130	0.659	25		
sec-Butylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130	1.37	25		
tert-Butylbenzene	9.41	1.0	µg/L	10.0		94.1	70-130	2.26	25		
tert-Butyl Ethyl Ether (TBEE)	9.19	0.50	µg/L	10.0		91.9	70-130	1.30	25		
Carbon Disulfide	11.5	4.0	µg/L	10.0		115	70-130	2.40	25		
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130	1.41	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.197	25		
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	70-130	1.46	25		
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	0.196	25		
Chloroform	10.4	2.0	µg/L	10.0		104	70-130	1.17	25		
Chloromethane	11.4	2.0	µg/L	10.0		114	40-160	2.49	25		†
2-Chlorotoluene	9.35	2.0	µg/L	10.0		93.5	70-130	1.49	25		
4-Chlorotoluene	9.23	1.0	µg/L	10.0		92.3	70-130	1.93	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.86	5.0	µg/L	10.0		78.6	70-130	1.28	25	V-05	
1,2-Dibromoethane (EDB)	9.88	0.50	µg/L	10.0		98.8	70-130	0.303	25		
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	0.475	25		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.96	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.01	25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.15	25		
trans-1,4-Dichloro-2-butene	9.44	2.0	µg/L	10.0		94.4	70-130	1.99	25		
Dichlorodifluoromethane (Freon 12)	13.9	2.0	µg/L	10.0		139	40-160	0.00	25	V-05	†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	2.51	25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	1.24	25		
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	3.66	25		
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130	3.40	25		
trans-1,2-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130	5.41	25		
1,2-Dichloropropane	9.64	1.0	µg/L	10.0		96.4	70-130	3.67	25		
1,3-Dichloropropane	9.90	0.50	µg/L	10.0		99.0	70-130	1.73	25		
2,2-Dichloropropane	12.2	1.0	µg/L	10.0		122	40-130	2.82	25		†
1,1-Dichloropropene	9.85	2.0	µg/L	10.0		98.5	70-130	3.20	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B165947 - SW-846 5030B											
LCS Dup (B165947-BSD1)				Prepared & Analyzed: 12/16/16							
cis-1,3-Dichloropropene	8.48	0.50	µg/L	10.0		84.8	70-130	1.43	25		
trans-1,3-Dichloropropene	9.27	0.50	µg/L	10.0		92.7	70-130	5.56	25		
Diethyl Ether	9.62	2.0	µg/L	10.0		96.2	70-130	2.77	25		
Diisopropyl Ether (DIPE)	9.34	0.50	µg/L	10.0		93.4	70-130	4.04	25		
1,4-Dioxane	105	50	µg/L	100		105	40-130	4.29	50		† ‡
Ethylbenzene	8.87	1.0	µg/L	10.0		88.7	70-130	0.339	25		
Hexachlorobutadiene	10.1	0.60	µg/L	10.0		101	70-130	4.37	25		
2-Hexanone (MBK)	78.4	10	µg/L	100		78.4	70-160	4.20	25		†
Isopropylbenzene (Cumene)	9.30	1.0	µg/L	10.0		93.0	70-130	1.28	25		
p-Isopropyltoluene (p-Cymene)	9.18	1.0	µg/L	10.0		91.8	70-130	2.20	25		
Methyl Acetate	9.50	1.0	µg/L	10.0		95.0	70-130	7.31	25		
Methyl tert-Butyl Ether (MTBE)	9.75	1.0	µg/L	10.0		97.5	70-130	2.60	25		
Methyl Cyclohexane	8.51	1.0	µg/L	10.0		85.1	70-130	2.55	25		
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130	4.33	25		
4-Methyl-2-pentanone (MIBK)	79.2	10	µg/L	100		79.2	70-160	1.21	25		†
Naphthalene	8.00	2.0	µg/L	10.0		80.0	40-130	3.43	25	V-05	†
n-Propylbenzene	8.92	1.0	µg/L	10.0		89.2	70-130	1.81	25		
Styrene	8.75	1.0	µg/L	10.0		87.5	70-130	1.59	25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.29	25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130	0.490	25		
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130	1.48	25		
Tetrahydrofuran	8.77	10	µg/L	10.0		87.7	70-130	6.84	25	V-05	
Toluene	10.4	1.0	µg/L	10.0		104	70-130	0.574	25		
1,2,3-Trichlorobenzene	7.68	5.0	µg/L	10.0		76.8	70-130	0.649	25	V-05	
1,2,4-Trichlorobenzene	7.96	1.0	µg/L	10.0		79.6	70-130	7.16	25	V-05	
1,3,5-Trichlorobenzene	8.46	1.0	µg/L	10.0		84.6	70-130	2.51	25		
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	2.37	25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.42	25		
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	3.41	25		
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	1.51	25		
1,2,3-Trichloropropane	9.56	2.0	µg/L	10.0		95.6	70-130	0.105	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	1.46	25		
1,2,4-Trimethylbenzene	8.77	1.0	µg/L	10.0		87.7	70-130	0.687	25		
1,3,5-Trimethylbenzene	8.73	1.0	µg/L	10.0		87.3	70-130	0.571	25		
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160	0.876	25		†
m+p Xylene	17.6	2.0	µg/L	20.0		88.0	70-130	0.399	25		
o-Xylene	9.12	1.0	µg/L	10.0		91.2	70-130	1.10	25		
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*26.6*		µg/L	25.0		106	70-130				
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.4	70-130				
Batch B166107 - SW-846 5030B											
Blank (B166107-BLK1)				Prepared: 12/19/16 Analyzed: 12/20/16							
Acetone	ND	50	µg/L								
Acrylonitrile	ND	5.0	µg/L								
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L								
Benzene	ND	1.0	µg/L								
Bromobenzene	ND	1.0	µg/L								
Bromochloromethane	ND	1.0	µg/L								
Bromodichloromethane	ND	0.50	µg/L								
Bromoform	ND	1.0	µg/L								

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B166107 - SW-846 5030B										
Blank (B166107-BLK1)				Prepared: 12/19/16 Analyzed: 12/20/16						
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	2.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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							
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							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B166107 - SW-846 5030B												
Blank (B166107-BLK1)				Prepared: 12/19/16 Analyzed: 12/20/16								
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	*29.0*		µg/L	25.0		116		70-130				
Surrogate: Toluene-d8	*22.7*		µg/L	25.0		90.8		70-130				
Surrogate: 4-Bromofluorobenzene	*19.8*		µg/L	25.0		79.1		70-130				
LCS (B166107-BS1)				Prepared: 12/19/16 Analyzed: 12/20/16								
Acetone	82.6	50	µg/L	100		82.6		70-160				†
Acrylonitrile	9.30	5.0	µg/L	10.0		93.0		70-130				
tert-Amyl Methyl Ether (TAME)	8.68	0.50	µg/L	10.0		86.8		70-130				
Benzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromobenzene	10.3	1.0	µg/L	10.0		103		70-130				
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130				
Bromodichloromethane	11.1	0.50	µg/L	10.0		111		70-130				
Bromoform	9.88	1.0	µg/L	10.0		98.8		70-130				
Bromomethane	9.27	2.0	µg/L	10.0		92.7		40-160				†
2-Butanone (MEK)	76.5	20	µg/L	100		76.5		40-160				†
tert-Butyl Alcohol (TBA)	84.1	20	µg/L	100		84.1		40-160				†
n-Butylbenzene	9.19	1.0	µg/L	10.0		91.9		70-130				
sec-Butylbenzene	9.50	1.0	µg/L	10.0		95.0		70-130				
tert-Butylbenzene	9.30	1.0	µg/L	10.0		93.0		70-130				
tert-Butyl Ethyl Ether (TBEE)	8.78	0.50	µg/L	10.0		87.8		70-130				
Carbon Disulfide	13.6	4.0	µg/L	10.0		**136**	*	70-130			L-02	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102		70-130				
Chlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108		70-130				
Chloroethane	10.9	2.0	µg/L	10.0		109		70-130				
Chloroform	10.8	2.0	µg/L	10.0		108		70-130				
Chloromethane	11.5	2.0	µg/L	10.0		115		40-160				†
2-Chlorotoluene	9.65	2.0	µg/L	10.0		96.5		70-130				
4-Chlorotoluene	9.56	1.0	µg/L	10.0		95.6		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.40	5.0	µg/L	10.0		74.0		70-130			V-05	
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100		70-130				
Dibromomethane	10.8	1.0	µg/L	10.0		108		70-130				
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B166107 - SW-846 5030B											
LCS (B166107-BS1)				Prepared: 12/19/16 Analyzed: 12/20/16							
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130				
trans-1,4-Dichloro-2-butene	9.52	2.0	µg/L	10.0		95.2	70-130				
Dichlorodifluoromethane (Freon 12)	12.7	2.0	µg/L	10.0		127	40-160			V-05	†
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130				
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130				
1,1-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130				
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123	70-130				
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130				
1,3-Dichloropropane	9.75	0.50	µg/L	10.0		97.5	70-130				
2,2-Dichloropropane	12.7	1.0	µg/L	10.0		127	40-130				†
1,1-Dichloropropene	9.92	2.0	µg/L	10.0		99.2	70-130				
cis-1,3-Dichloropropene	8.30	0.50	µg/L	10.0		83.0	70-130				
trans-1,3-Dichloropropene	9.87	0.50	µg/L	10.0		98.7	70-130				
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130				
Diisopropyl Ether (DIPE)	9.48	0.50	µg/L	10.0		94.8	70-130				
1,4-Dioxane	108	50	µg/L	100		108	40-130				†
Ethylbenzene	8.86	1.0	µg/L	10.0		88.6	70-130				
Hexachlorobutadiene	9.89	0.60	µg/L	10.0		98.9	70-130				
2-Hexanone (MBK)	72.3	10	µg/L	100		72.3	70-160				†
Isopropylbenzene (Cumene)	9.39	1.0	µg/L	10.0		93.9	70-130				
p-Isopropyltoluene (p-Cymene)	9.08	1.0	µg/L	10.0		90.8	70-130				
Methyl Acetate	9.42	1.0	µg/L	10.0		94.2	70-130				
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.0		98.2	70-130				
Methyl Cyclohexane	9.30	1.0	µg/L	10.0		93.0	70-130				
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130				
4-Methyl-2-pentanone (MIBK)	74.6	10	µg/L	100		74.6	70-160				†
Naphthalene	7.45	2.0	µg/L	10.0		74.5	40-130			V-05	†
n-Propylbenzene	8.84	1.0	µg/L	10.0		88.4	70-130				
Styrene	8.95	1.0	µg/L	10.0		89.5	70-130				
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130				
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130				
Tetrahydrofuran	8.26	10	µg/L	10.0		82.6	70-130				
Toluene	10.6	1.0	µg/L	10.0		106	70-130				
1,2,3-Trichlorobenzene	7.59	5.0	µg/L	10.0		75.9	70-130			V-05	
1,2,4-Trichlorobenzene	7.75	1.0	µg/L	10.0		77.5	70-130			V-05	
1,3,5-Trichlorobenzene	8.73	1.0	µg/L	10.0		87.3	70-130				
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130				
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130				
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130				
1,2,3-Trichloropropane	9.18	2.0	µg/L	10.0		91.8	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0		108	70-130				
1,2,4-Trimethylbenzene	8.71	1.0	µg/L	10.0		87.1	70-130				
1,3,5-Trimethylbenzene	8.93	1.0	µg/L	10.0		89.3	70-130				
Vinyl Chloride	10.6	2.0	µg/L	10.0		106	40-160				†
m+p Xylene	17.8	2.0	µg/L	20.0		88.9	70-130				
o-Xylene	9.16	1.0	µg/L	10.0		91.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104	70-130				
Surrogate: Toluene-d8	*26.4*		µg/L	25.0		106	70-130				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B166107 - SW-846 5030B												
LCS (B166107-BS1)				Prepared: 12/19/16 Analyzed: 12/20/16								
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.1		70-130				
LCS Dup (B166107-BSD1)				Prepared: 12/19/16 Analyzed: 12/20/16								
Acetone	85.6	50	µg/L	100		85.6		70-160	3.52	25		†
Acrylonitrile	9.44	5.0	µg/L	10.0		94.4		70-130	1.49	25		
tert-Amyl Methyl Ether (TAME)	8.84	0.50	µg/L	10.0		88.4		70-130	1.83	25		
Benzene	10.0	1.0	µg/L	10.0		100		70-130	0.990	25		
Bromobenzene	10.5	1.0	µg/L	10.0		105		70-130	2.21	25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	0.380	25		
Bromodichloromethane	11.0	0.50	µg/L	10.0		110		70-130	1.09	25		
Bromoform	9.81	1.0	µg/L	10.0		98.1		70-130	0.711	25		
Bromomethane	10.2	2.0	µg/L	10.0		102		40-160	9.16	25		†
2-Butanone (MEK)	82.6	20	µg/L	100		82.6		40-160	7.62	25		†
tert-Butyl Alcohol (TBA)	87.0	20	µg/L	100		87.0		40-160	3.37	25		†
n-Butylbenzene	9.30	1.0	µg/L	10.0		93.0		70-130	1.19	25		
sec-Butylbenzene	9.77	1.0	µg/L	10.0		97.7		70-130	2.80	25		
tert-Butylbenzene	9.06	1.0	µg/L	10.0		90.6		70-130	2.61	25		
tert-Butyl Ethyl Ether (TBEE)	9.78	0.50	µg/L	10.0		97.8		70-130	10.8	25		
Carbon Disulfide	13.1	4.0	µg/L	10.0		**131**	*	70-130	3.52	25	L-02	
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105		70-130	2.31	25		
Chlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	2.90	25		
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130	1.87	25		
Chloroethane	9.95	2.0	µg/L	10.0		99.5		70-130	9.39	25		
Chloroform	10.7	2.0	µg/L	10.0		107		70-130	0.186	25		
Chloromethane	11.4	2.0	µg/L	10.0		114		40-160	0.701	25		†
2-Chlorotoluene	9.99	2.0	µg/L	10.0		99.9		70-130	3.46	25		
4-Chlorotoluene	9.72	1.0	µg/L	10.0		97.2		70-130	1.66	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.64	5.0	µg/L	10.0		76.4		70-130	3.19	25	V-05	
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103		70-130	3.15	25		
Dibromomethane	11.1	1.0	µg/L	10.0		111		70-130	2.83	25		
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130	1.43	25		
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130	3.81	25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	1.21	25		
trans-1,4-Dichloro-2-butene	9.94	2.0	µg/L	10.0		99.4		70-130	4.32	25		
Dichlorodifluoromethane (Freon 12)	13.0	2.0	µg/L	10.0		130		40-160	2.49	25	V-05	†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113		70-130	0.267	25		
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130	3.41	25		
1,1-Dichloroethylene	11.5	1.0	µg/L	10.0		115		70-130	0.261	25		
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130	1.57	25		
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123		70-130	0.00	25		
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101		70-130	2.53	25		
1,3-Dichloropropane	9.86	0.50	µg/L	10.0		98.6		70-130	1.12	25		
2,2-Dichloropropane	12.7	1.0	µg/L	10.0		127		40-130	0.158	25		†
1,1-Dichloropropene	9.67	2.0	µg/L	10.0		96.7		70-130	2.55	25		
cis-1,3-Dichloropropene	8.63	0.50	µg/L	10.0		86.3		70-130	3.90	25		
trans-1,3-Dichloropropene	9.90	0.50	µg/L	10.0		99.0		70-130	0.303	25		
Diethyl Ether	10.0	2.0	µg/L	10.0		100		70-130	0.695	25		
Diisopropyl Ether (DIPE)	9.48	0.50	µg/L	10.0		94.8		70-130	0.00	25		
1,4-Dioxane	100	50	µg/L	100		100		40-130	6.99	50		† ‡
Ethylbenzene	9.12	1.0	µg/L	10.0		91.2		70-130	2.89	25		
Hexachlorobutadiene	9.64	0.60	µg/L	10.0		96.4		70-130	2.56	25		
2-Hexanone (MBK)	76.9	10	µg/L	100		76.9		70-160	6.14	25		†

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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 B166107 - SW-846 5030B												
LCS Dup (B166107-BSD1)				Prepared: 12/19/16 Analyzed: 12/20/16								
Isopropylbenzene (Cumene)	9.75	1.0	µg/L	10.0		97.5		70-130	3.76	25		
p-Isopropyltoluene (p-Cymene)	9.18	1.0	µg/L	10.0		91.8		70-130	1.10	25		
Methyl Acetate	9.70	1.0	µg/L	10.0		97.0		70-130	2.93	25		
Methyl tert-Butyl Ether (MTBE)	9.94	1.0	µg/L	10.0		99.4		70-130	1.21	25		
Methyl Cyclohexane	8.98	1.0	µg/L	10.0		89.8		70-130	3.50	25		
Methylene Chloride	12.0	5.0	µg/L	10.0		120		70-130	1.42	25		
4-Methyl-2-pentanone (MIBK)	79.8	10	µg/L	100		79.8		70-160	6.84	25		†
Naphthalene	7.54	2.0	µg/L	10.0		75.4		40-130	1.20	25	V-05	†
n-Propylbenzene	9.15	1.0	µg/L	10.0		91.5		70-130	3.45	25		
Styrene	9.16	1.0	µg/L	10.0		91.6		70-130	2.32	25		
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106		70-130	5.42	25		
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100		70-130	0.597	25		
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102		70-130	0.786	25		
Tetrahydrofuran	8.59	10	µg/L	10.0		85.9		70-130	3.92	25		
Toluene	11.0	1.0	µg/L	10.0		110		70-130	3.71	25		
1,2,3-Trichlorobenzene	6.85	5.0	µg/L	10.0		**68.5**	*	70-130	10.2	25	L-07, V-05	
1,2,4-Trichlorobenzene	7.41	1.0	µg/L	10.0		74.1		70-130	4.49	25	V-05	
1,3,5-Trichlorobenzene	8.90	1.0	µg/L	10.0		89.0		70-130	1.93	25		
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130	2.49	25		
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130	0.659	25		
Trichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	2.79	25		
Trichlorofluoromethane (Freon 11)	11.9	2.0	µg/L	10.0		119		70-130	1.87	25		
1,2,3-Trichloropropane	9.63	2.0	µg/L	10.0		96.3		70-130	4.78	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0		111		70-130	2.28	25		
1,2,4-Trimethylbenzene	8.83	1.0	µg/L	10.0		88.3		70-130	1.37	25		
1,3,5-Trimethylbenzene	9.12	1.0	µg/L	10.0		91.2		70-130	2.11	25		
Vinyl Chloride	10.7	2.0	µg/L	10.0		107		40-160	0.750	25		†
m+p Xylene	18.0	2.0	µg/L	20.0		89.8		70-130	0.952	25		
o-Xylene	9.39	1.0	µg/L	10.0		93.9		70-130	2.48	25		
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		104		70-130				
Surrogate: Toluene-d8	*27.4*		µg/L	25.0		109		70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100		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-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration 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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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,NY,ME,NH,VA
o-Xylene	CT,NY,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	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

con-test® ANALYTICAL LABORATORY

1620319

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

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:	Paul Ledoux

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@cbi.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	3	H	V	EPA 8260B (VOCs)	# of Containers
01	MW-112	12.6.16	0700		✓	GW	U				3	
02	MW-116D	12.6.16	0600		✓	GW	U				3	
03	MW-116S (3/4")	12.6.16	0530		✓	GW	U				3	

ANALYSIS REQUESTED

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

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

Relinquished by: (signature)	Date/Time: 12.6.16 1000
Received by: (signature)	Date/Time: 12-7-16 958
Relinquished by: (signature)	Date/Time: 12-8-16 953
Received by: (signature)	Date/Time: 12/8/16 953
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: CB&I Env. **RECEIVED BY:** JM **DATE:** 12/8/16

1) **Was the chain(s) of custody relinquished and signed?** **Yes** ✓ **No** ____ **No COC Incl.**

2) **Does the chain agree with the samples?** **Yes** ✓ **No** ____
If not, explain:

3) **Are all the samples in good condition?** **Yes** ✓ **No** ____
If not, explain:

4) **How were the samples received:**
On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** ✓ **No** ____ **N/A** ____

Temperature °C by Temp blank ____ Temperature °C by Temp gun 3.0

5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** ✓
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** ____ **No** ✓
Who was notified ____ Date ____ Time ____

7) **Location where samples are stored:** Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** ✓

9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** ✓

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	9	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 9 # Methanol ____ **Time and Date Frozen:**

Bisulfate ____ # DI Water ____

Thiosulfate ____ Unpreserved ____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 12/8/16 ~~958~~ 953 (JM)

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

January 24, 2017

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

Project Location: Textron Providence
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 17A0457

Enclosed are results of analyses for samples received by the laboratory on January 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

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: 1/24/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17A0457

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

PROJECT LOCATION: Textron Providence

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	17A0457-01	Ground Water		SW-846 8260C	
MW-116D	17A0457-02	Ground Water		SW-846 8260C	
MW-116S	17A0457-03	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

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

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

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:

Chloromethane

B168389-BS1

L-07A

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

Analyte & Samples(s) Qualified:

Bromomethane

B168389-BS1

R-05

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

Analyte & Samples(s) Qualified:

Bromomethane

17A0457-01[MW-112], 17A0457-02[MW-116D], 17A0457-03[MW-116S], B168389-BLK1, B168389-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17A0457-01[MW-112]

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:

Chloromethane

17A0457-01[MW-112], 17A0457-02[MW-116D], 17A0457-03[MW-116S], B168389-BLK1, B168389-BS1, B168389-BSD1

V-16

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

17A0457-01[MW-112], 17A0457-02[MW-116D], 17A0457-03[MW-116S], B168389-BLK1, B168389-BS1, B168389-BSD1

tert-Butyl Alcohol (TBA)

17A0457-01[MW-112], 17A0457-02[MW-116D], 17A0457-03[MW-116S], B168389-BLK1, B168389-BS1, B168389-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:

2-Butanone (MEK)

B168389-BS1, B168389-BSD1

Acetone

B168389-BS1, B168389-BSD1

Acrylonitrile

B168389-BS1, B168389-BSD1

tert-Butyl Alcohol (TBA)

B168389-BS1, B168389-BSD1

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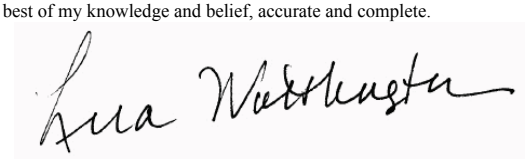
The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this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



Lisa A. Worthington
Project Manager

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

Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-112 | Sampled: 1/11/2017 10:00

Sample ID: 17A0457-01

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	1/20/17	1/20/17 19:43	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Bromomethane	ND	10	µg/L	5	R-05	SW-846 8260C	1/20/17	1/20/17 19:43	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-16	SW-846 8260C	1/20/17	1/20/17 19:43	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Chloromethane	ND	10	µg/L	5	V-05	SW-846 8260C	1/20/17	1/20/17 19:43	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH

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

Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-112 | Sampled: 1/11/2017 10:00

Sample ID: 17A0457-01

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	1/20/17	1/20/17 19:43	EEH
1,4-Dioxane	ND	250	µg/L	5	V-16	SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Methyl Acetate	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Tetrachloroethylene	450	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Trichloroethylene	27	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	1/20/17	1/20/17 19:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		1/20/17 19:43
Toluene-d8	99.8	70-130		1/20/17 19:43
4-Bromofluorobenzene	97.0	70-130		1/20/17 19:43

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

Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-116D | Sampled: 1/11/2017 09:00

Sample ID: 17A0457-02

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	1/20/17	1/20/17 16:36	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	1/20/17	1/20/17 16:36	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	1/20/17	1/20/17 16:36	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	1/20/17	1/20/17 16:36	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH

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

Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-116D | Sampled: 1/11/2017 09:00

Sample ID: 17A0457-02

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	1/20/17	1/20/17 16:36	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 16:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		1/20/17 16:36
Toluene-d8	100	70-130		1/20/17 16:36
4-Bromofluorobenzene	95.1	70-130		1/20/17 16:36

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

Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-116S | Sampled: 1/11/2017 08:30

Sample ID: 17A0457-03

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	1/20/17	1/20/17 17:03	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	1/20/17	1/20/17 17:03	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	1/20/17	1/20/17 17:03	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	1/20/17	1/20/17 17:03	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH

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Project Location: Textron Providence | Sample Description: | Work Order: 17A0457

Date Received: 1/11/2017

Field Sample #: MW-116S | Sampled: 1/11/2017 08:30

Sample ID: 17A0457-03

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	1/20/17	1/20/17 17:03	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/20/17	1/20/17 17:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		1/20/17 17:03
Toluene-d8	100	70-130		1/20/17 17:03
4-Bromofluorobenzene	95.8	70-130		1/20/17 17:03

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17A0457-01 [MW-112]	B168389	1	5.00	01/20/17
17A0457-02 [MW-116D]	B168389	5	5.00	01/20/17
17A0457-03 [MW-116S]	B168389	5	5.00	01/20/17

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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 B168389 - SW-846 5030B										
Blank (B168389-BLK1)				Prepared & Analyzed: 01/20/17						
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							V-16
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							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B168389 - SW-846 5030B												
Blank (B168389-BLK1)				Prepared & Analyzed: 01/20/17								
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	*25.0*		µg/L	25.0		99.8		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.6		70-130				
LCS (B168389-BS1)				Prepared & Analyzed: 01/20/17								
Acetone	119	50	µg/L	100		119		70-160			V-20	†
Acrylonitrile	12.2	5.0	µg/L	10.0		122		70-130			V-20	
tert-Amyl Methyl Ether (TAME)	8.37	0.50	µg/L	10.0		83.7		70-130				
Benzene	10.1	1.0	µg/L	10.0		101		70-130				
Bromobenzene	10.1	1.0	µg/L	10.0		101		70-130				
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130				
Bromodichloromethane	9.65	0.50	µg/L	10.0		96.5		70-130				
Bromoform	9.24	1.0	µg/L	10.0		92.4		70-130				
Bromomethane	3.97	2.0	µg/L	10.0		**39.7**	*	40-160			L-07A	†
2-Butanone (MEK)	116	20	µg/L	100		116		40-160			V-20	†
tert-Butyl Alcohol (TBA)	126	20	µg/L	100		126		40-160			V-16, V-20	†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
tert-Butyl Ethyl Ether (TBEE)	8.93	0.50	µg/L	10.0		89.3		70-130				
Carbon Disulfide	11.8	4.0	µg/L	10.0		118		70-130				
Carbon Tetrachloride	9.28	5.0	µg/L	10.0		92.8		70-130				
Chlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
Chlorodibromomethane	9.04	0.50	µg/L	10.0		90.4		70-130				
Chloroethane	11.8	2.0	µg/L	10.0		118		70-130				
Chloroform	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	
Batch B168389 - SW-846 5030B												
LCS (B168389-BS1)				Prepared & Analyzed: 01/20/17								
Chloromethane	3.83	2.0	µg/L	10.0		**38.3**	*	40-160			L-07, V-05	†
2-Chlorotoluene	9.90	1.0	µg/L	10.0		99.0		70-130				
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.32	5.0	µg/L	10.0		93.2		70-130				
1,2-Dibromoethane (EDB)	9.65	0.50	µg/L	10.0		96.5		70-130				
Dibromomethane	10.1	1.0	µg/L	10.0		101		70-130				
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,4-Dichloro-2-butene	9.31	2.0	µg/L	10.0		93.1		70-130				
Dichlorodifluoromethane (Freon 12)	4.69	2.0	µg/L	10.0		46.9		40-160				†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103		70-130				
1,2-Dichloroethane	9.60	1.0	µg/L	10.0		96.0		70-130				
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110		70-130				
cis-1,2-Dichloroethylene	9.57	1.0	µg/L	10.0		95.7		70-130				
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
1,2-Dichloropropane	9.84	1.0	µg/L	10.0		98.4		70-130				
1,3-Dichloropropane	9.67	0.50	µg/L	10.0		96.7		70-130				
2,2-Dichloropropane	8.74	1.0	µg/L	10.0		87.4		40-130				†
1,1-Dichloropropene	9.95	2.0	µg/L	10.0		99.5		70-130				
cis-1,3-Dichloropropene	8.32	0.50	µg/L	10.0		83.2		70-130				
trans-1,3-Dichloropropene	8.15	0.50	µg/L	10.0		81.5		70-130				
Diethyl Ether	10.5	2.0	µg/L	10.0		105		70-130				
Diisopropyl Ether (DIPE)	8.71	0.50	µg/L	10.0		87.1		70-130				
1,4-Dioxane	104	50	µg/L	100		104		40-130			V-16	†
Ethylbenzene	10.4	1.0	µg/L	10.0		104		70-130				
Hexachlorobutadiene	10.2	0.60	µg/L	10.0		102		70-130				
2-Hexanone (MBK)	99.8	10	µg/L	100		99.8		70-160				†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112		70-130				
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101		70-130				
Methyl Acetate	11.6	1.0	µg/L	10.0		116		70-130				
Methyl tert-Butyl Ether (MTBE)	9.39	1.0	µg/L	10.0		93.9		70-130				
Methyl Cyclohexane	9.32	1.0	µg/L	10.0		93.2		70-130				
Methylene Chloride	11.7	5.0	µg/L	10.0		117		70-130				
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101		70-160				†
Naphthalene	10.6	2.0	µg/L	10.0		106		40-130				†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107		70-130				
Styrene	10.5	1.0	µg/L	10.0		105		70-130				
1,1,1,2-Tetrachloroethane	9.61	1.0	µg/L	10.0		96.1		70-130				
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130				
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102		70-130				
Tetrahydrofuran	11.8	10	µg/L	10.0		118		70-130				
Toluene	10.2	1.0	µg/L	10.0		102		70-130				
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102		70-130				
1,2,4-Trichlorobenzene	9.94	1.0	µg/L	10.0		99.4		70-130				
1,3,5-Trichlorobenzene	9.47	1.0	µg/L	10.0		94.7		70-130				
1,1,1-Trichloroethane	9.40	1.0	µg/L	10.0		94.0		70-130				
1,1,2-Trichloroethane	9.98	1.0	µg/L	10.0		99.8		70-130				
Trichloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101		70-130				
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B168389 - SW-846 5030B											
LCS (B168389-BS1)				Prepared & Analyzed: 01/20/17							
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	10.3	1.0	µg/L	10.0		103	70-130				
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
Vinyl Chloride	9.48	2.0	µg/L	10.0		94.8	40-160				†
m+p Xylene	21.1	2.0	µg/L	20.0		106	70-130				
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.4	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130				
LCS Dup (B168389-BSD1)				Prepared & Analyzed: 01/20/17							
Acetone	119	50	µg/L	100		119	70-160	0.445	25	V-20	†
Acrylonitrile	11.9	5.0	µg/L	10.0		119	70-130	2.65	25	V-20	
tert-Amyl Methyl Ether (TAME)	8.51	0.50	µg/L	10.0		85.1	70-130	1.66	25		
Benzene	10.1	1.0	µg/L	10.0		101	70-130	0.396	25		
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.0991	25		
Bromochloromethane	10.7	1.0	µg/L	10.0		107	70-130	1.51	25		
Bromodichloromethane	9.62	0.50	µg/L	10.0		96.2	70-130	0.311	25		
Bromoform	9.51	1.0	µg/L	10.0		95.1	70-130	2.88	25		
Bromomethane	5.16	2.0	µg/L	10.0		51.6	40-160	**26.1** *	25	R-05	†
2-Butanone (MEK)	116	20	µg/L	100		116	40-160	0.0430	25	V-20	†
tert-Butyl Alcohol (TBA)	123	20	µg/L	100		123	40-160	2.37	25	V-16, V-20	†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	2.42	25		
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.79	25		
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.190	25		
tert-Butyl Ethyl Ether (TBEE)	8.92	0.50	µg/L	10.0		89.2	70-130	0.112	25		
Carbon Disulfide	11.4	4.0	µg/L	10.0		114	70-130	3.61	25		
Carbon Tetrachloride	9.18	5.0	µg/L	10.0		91.8	70-130	1.08	25		
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.79	25		
Chlorodibromomethane	9.29	0.50	µg/L	10.0		92.9	70-130	2.73	25		
Chloroethane	11.6	2.0	µg/L	10.0		116	70-130	2.14	25		
Chloroform	9.96	2.0	µg/L	10.0		99.6	70-130	2.58	25		
Chloromethane	4.23	2.0	µg/L	10.0		42.3	40-160	9.93	25	V-05	†
2-Chlorotoluene	9.84	1.0	µg/L	10.0		98.4	70-130	0.608	25		
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	2.16	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.31	5.0	µg/L	10.0		93.1	70-130	0.107	25		
1,2-Dibromoethane (EDB)	9.94	0.50	µg/L	10.0		99.4	70-130	2.96	25		
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130	0.983	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	3.47	25		
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.15	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.24	25		
trans-1,4-Dichloro-2-butene	9.68	2.0	µg/L	10.0		96.8	70-130	3.90	25		
Dichlorodifluoromethane (Freon 12)	4.72	2.0	µg/L	10.0		47.2	40-160	0.638	25		†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.47	25		
1,2-Dichloroethane	9.57	1.0	µg/L	10.0		95.7	70-130	0.313	25		
1,1-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	0.00	25		
cis-1,2-Dichloroethylene	9.39	1.0	µg/L	10.0		93.9	70-130	1.90	25		
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.25	25		
1,2-Dichloropropane	9.78	1.0	µg/L	10.0		97.8	70-130	0.612	25		
1,3-Dichloropropane	9.62	0.50	µg/L	10.0		96.2	70-130	0.518	25		
2,2-Dichloropropane	8.61	1.0	µg/L	10.0		86.1	40-130	1.50	25		†
1,1-Dichloropropene	9.76	2.0	µg/L	10.0		97.6	70-130	1.93	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 B168389 - SW-846 5030B											
LCS Dup (B168389-BSD1)				Prepared & Analyzed: 01/20/17							
cis-1,3-Dichloropropene	8.24	0.50	µg/L	10.0		82.4	70-130	0.966	25		
trans-1,3-Dichloropropene	8.49	0.50	µg/L	10.0		84.9	70-130	4.09	25		
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130	0.571	25		
Diisopropyl Ether (DIPE)	8.73	0.50	µg/L	10.0		87.3	70-130	0.229	25		
1,4-Dioxane	103	50	µg/L	100		103	40-130	1.69	50	V-16	† ‡
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.382	25		
Hexachlorobutadiene	10.5	0.60	µg/L	10.0		105	70-130	2.31	25		
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	1.06	25		†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112	70-130	0.00	25		
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130	2.15	25		
Methyl Acetate	12.3	1.0	µg/L	10.0		123	70-130	6.35	25		
Methyl tert-Butyl Ether (MTBE)	9.47	1.0	µg/L	10.0		94.7	70-130	0.848	25		
Methyl Cyclohexane	9.48	1.0	µg/L	10.0		94.8	70-130	1.70	25		
Methylene Chloride	11.6	5.0	µg/L	10.0		116	70-130	0.429	25		
4-Methyl-2-pentanone (MIBK)	99.8	10	µg/L	100		99.8	70-160	1.05	25		†
Naphthalene	11.0	2.0	µg/L	10.0		110	40-130	3.52	25		†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.845	25		
Styrene	10.5	1.0	µg/L	10.0		105	70-130	0.382	25		
1,1,1,2-Tetrachloroethane	9.49	1.0	µg/L	10.0		94.9	70-130	1.26	25		
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130	0.562	25		
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.783	25		
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130	14.0	25		
Toluene	10.1	1.0	µg/L	10.0		101	70-130	0.887	25		
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107	70-130	4.80	25		
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	5.10	25		
1,3,5-Trichlorobenzene	9.62	1.0	µg/L	10.0		96.2	70-130	1.57	25		
1,1,1-Trichloroethane	9.33	1.0	µg/L	10.0		93.3	70-130	0.747	25		
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130	0.200	25		
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.293	25		
Trichlorofluoromethane (Freon 11)	9.92	2.0	µg/L	10.0		99.2	70-130	1.70	25		
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	1.33	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.98	1.0	µg/L	10.0		99.8	70-130	2.18	25		
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.679	25		
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.876	25		
Vinyl Chloride	10.1	2.0	µg/L	10.0		101	40-160	6.73	25		†
m+p Xylene	21.1	2.0	µg/L	20.0		106	70-130	0.0474	25		
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	0.860	25		
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		100	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8	70-130				
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.0	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-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
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-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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,NY,ME,NH,VA
o-Xylene	CT,NY,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	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
East Longmeadow, MA 01028

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:	Paul Ledoux

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@cbi.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	EPA 8260B (VOCs)	# of Containers
01	MW-112	1.11.17	1000		✓	GW	U	3	3
02	MW-116D	1.11.17	0800		✓	GW	U	3	3
03	MW-116S	1.11.17	0830		✓	GW	U	3	3

ANALYSIS REQUESTED

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

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

Relinquished by: (signature) Paul Ledoux	Date/Time: 1100 1.11.17	
Received by: (signature) Paul Chartrand	Date/Time: 1-11-17 1114	
Relinquished by: (signature)	Date/Time:	
Received by: (signature) RMD 1/11/17	Date/Time: 215	
Relinquished by: (signature) RMD 1/11/17	Date/Time: 440	
Received by: (signature)	Date/Time: 1/11/17 1640	

Detection Limit Requirements
MA
CT
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: CB&I **RECEIVED BY:** RJM **DATE:** 1/11/17

1) **Was the chain(s) of custody relinquished and signed?** **Yes** X **No** ____ **No COC Incl.**

2) **Does the chain agree with the samples?** **Yes** X **No** ____
If not, explain:

3) **Are all the samples in good condition?** **Yes** X **No** ____
If not, explain:

4) **How were the samples received:**
On Ice X Direct from Sampling ____ Ambient ____ In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** X **No** ____ **N/A** ____

Temperature °C by Temp blank ____ Temperature °C by Temp gun 2.8°

5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** X
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** ____ **No** X
Who was notified ____ Date ____ Time ____

7) **Location where samples are stored:**

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** X

9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** X

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** X

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	9	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 9 # Methanol ____ **Time and Date Frozen:**
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T ~~NA~~ RJM	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** RJM **Date/Time:** 1/11/17 1640

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

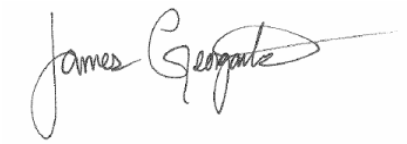
February 28, 2017

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

Project Location: Textron Providence
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 17B0597

Enclosed are results of analyses for samples received by the laboratory on February 15, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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: 2/28/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17B0597

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

PROJECT LOCATION: Textron Providence

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	17B0597-01	Ground Water		SW-846 8260C	
MW-116D	17B0597-02	Ground Water		SW-846 8260C	
MW-116S	17B0597-03	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

L-02

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

B171225-BS1, B171225-BSD1

L-07A

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

Analyte & Samples(s) Qualified:

Bromomethane

B171225-BS1

R-05

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

Analyte & Samples(s) Qualified:

Bromomethane

17B0597-01[MW-112], 17B0597-02[MW-116D], 17B0597-03[MW-116S], B171225-BLK1, B171225-BS1, B171225-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17B0597-01[MW-112]

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:

1,4-Dioxane

17B0597-01[MW-112], 17B0597-02[MW-116D], 17B0597-03[MW-116S], B171225-BLK1, B171225-BS1, B171225-BSD1

Naphthalene

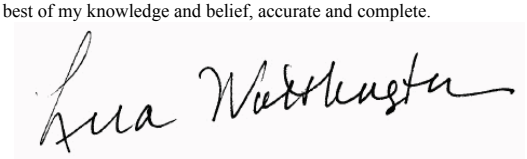
17B0597-01[MW-112], 17B0597-02[MW-116D], 17B0597-03[MW-116S], B171225-BLK1, B171225-BS1, B171225-BSD1

tert-Butyl Alcohol (TBA)

17B0597-01[MW-112], 17B0597-02[MW-116D], 17B0597-03[MW-116S], B171225-BLK1, B171225-BS1, B171225-BSD1

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

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



Lisa A. Worthington
Project Manager

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-112 | Sampled: 2/14/2017 09:00

Sample ID: 17B0597-01

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	2/24/17	2/24/17 17:37	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Bromodichloromethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Bromomethane	ND	10	µg/L	5	R-05	SW-846 8260C	2/24/17	2/24/17 17:37	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-05	SW-846 8260C	2/24/17	2/24/17 17:37	LBD
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Chloromethane	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-112 | Sampled: 2/14/2017 09:00

Sample ID: 17B0597-01

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	2/24/17	2/24/17 17:37	LBD
1,4-Dioxane	ND	250	µg/L	5	V-05	SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Methyl Acetate	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Naphthalene	ND	10	µg/L	5	V-05	SW-846 8260C	2/24/17	2/24/17 17:37	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Tetrachloroethylene	400	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Trichloroethylene	32	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	2/24/17	2/24/17 17:37	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.6	70-130		2/24/17 17:37
Toluene-d8	109	70-130		2/24/17 17:37
4-Bromofluorobenzene	99.0	70-130		2/24/17 17:37

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-116D | Sampled: 2/14/2017 10:00

Sample ID: 17B0597-02

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	2/24/17	2/24/17 15:35	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	2/24/17	2/24/17 15:35	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 15:35	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-116D | Sampled: 2/14/2017 10:00

Sample ID: 17B0597-02

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	2/24/17	2/24/17 15:35	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 15:35	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 15:35	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		2/24/17 15:35
Toluene-d8	108	70-130		2/24/17 15:35
4-Bromofluorobenzene	98.5	70-130		2/24/17 15:35

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-116S | Sampled: 2/14/2017 11:00

Sample ID: 17B0597-03

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	2/24/17	2/24/17 16:05	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	2/24/17	2/24/17 16:05	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 16:05	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD

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

Project Location: Textron Providence | Sample Description: | Work Order: 17B0597

Date Received: 2/15/2017

Field Sample #: MW-116S | Sampled: 2/14/2017 11:00

Sample ID: 17B0597-03

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	2/24/17	2/24/17 16:05	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Methyl Acetate	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/24/17	2/24/17 16:05	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/24/17	2/24/17 16:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		2/24/17 16:05
Toluene-d8	107	70-130		2/24/17 16:05
4-Bromofluorobenzene	97.6	70-130		2/24/17 16:05

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
17B0597-01 [MW-112]	B171225	1	5.00	02/24/17
17B0597-02 [MW-116D]	B171225	5	5.00	02/24/17
17B0597-03 [MW-116S]	B171225	5	5.00	02/24/17

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B171225 - SW-846 5030B										
Blank (B171225-BLK1)				Prepared & Analyzed: 02/24/17						
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							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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							V-05
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B171225 - SW-846 5030B												
Blank (B171225-BLK1)				Prepared & Analyzed: 02/24/17								
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									
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	*26.8*		µg/L	25.0		107		70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		96.2		70-130				
LCS (B171225-BS1)				Prepared & Analyzed: 02/24/17								
Acetone	85.8	50	µg/L	100		85.8		70-160				†
Acrylonitrile	9.96	5.0	µg/L	10.0		99.6		70-130				
tert-Amyl Methyl Ether (TAME)	8.59	0.50	µg/L	10.0		85.9		70-130				
Benzene	10.5	1.0	µg/L	10.0		105		70-130				
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromochloromethane	11.4	1.0	µg/L	10.0		114		70-130				
Bromodichloromethane	11.5	0.50	µg/L	10.0		115		70-130				
Bromoform	9.33	1.0	µg/L	10.0		93.3		70-130				
Bromomethane	3.93	2.0	µg/L	10.0		**39.3**	*	40-160			L-07A, R-05	†
2-Butanone (MEK)	86.1	20	µg/L	100		86.1		40-160				†
tert-Butyl Alcohol (TBA)	50.8	20	µg/L	100		50.8		40-160			V-05	†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
sec-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130				
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.22	0.50	µg/L	10.0		92.2		70-130				
Carbon Disulfide	13.4	4.0	µg/L	10.0		**134**	*	70-130			L-02	
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106		70-130				
Chlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106		70-130				
Chloroethane	8.96	2.0	µg/L	10.0		89.6		70-130				
Chloroform	10.9	2.0	µg/L	10.0		109		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 B171225 - SW-846 5030B											
LCS (B171225-BS1)				Prepared & Analyzed: 02/24/17							
Chloromethane	7.20	2.0	µg/L	10.0		72.0	40-160				†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130				
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.37	5.0	µg/L	10.0		93.7	70-130				
1,2-Dibromoethane (EDB)	9.77	0.50	µg/L	10.0		97.7	70-130				
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130				
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
trans-1,4-Dichloro-2-butene	9.19	2.0	µg/L	10.0		91.9	70-130				
Dichlorodifluoromethane (Freon 12)	6.23	2.0	µg/L	10.0		62.3	40-160				†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130				
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
trans-1,2-Dichloroethylene	12.4	1.0	µg/L	10.0		124	70-130				
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130				
1,3-Dichloropropane	9.74	0.50	µg/L	10.0		97.4	70-130				
2,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	40-130				†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130				
cis-1,3-Dichloropropene	9.60	0.50	µg/L	10.0		96.0	70-130				
trans-1,3-Dichloropropene	9.94	0.50	µg/L	10.0		99.4	70-130				
Diethyl Ether	9.66	2.0	µg/L	10.0		96.6	70-130				
Diisopropyl Ether (DIPE)	9.77	0.50	µg/L	10.0		97.7	70-130				
1,4-Dioxane	74.8	50	µg/L	100		74.8	40-130			V-05	†
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
Hexachlorobutadiene	12.6	0.60	µg/L	10.0		126	70-130				
2-Hexanone (MBK)	84.7	10	µg/L	100		84.7	70-160				†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105	70-130				
p-Isopropyltoluene (p-Cymene)	9.92	1.0	µg/L	10.0		99.2	70-130				
Methyl Acetate	10.6	1.0	µg/L	10.0		106	70-130				
Methyl tert-Butyl Ether (MTBE)	9.08	1.0	µg/L	10.0		90.8	70-130				
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130				
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130				
4-Methyl-2-pentanone (MIBK)	84.0	10	µg/L	100		84.0	70-160				†
Naphthalene	6.47	2.0	µg/L	10.0		64.7	40-130			V-05	†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
Styrene	9.84	1.0	µg/L	10.0		98.4	70-130				
1,1,1,2-Tetrachloroethane	9.65	1.0	µg/L	10.0		96.5	70-130				
1,1,2,2-Tetrachloroethane	9.05	0.50	µg/L	10.0		90.5	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Tetrahydrofuran	9.78	10	µg/L	10.0		97.8	70-130				
Toluene	10.7	1.0	µg/L	10.0		107	70-130				
1,2,3-Trichlorobenzene	8.53	5.0	µg/L	10.0		85.3	70-130				
1,2,4-Trichlorobenzene	9.30	1.0	µg/L	10.0		93.0	70-130				
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130				
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130				
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130				
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Trichlorofluoromethane (Freon 11)	9.65	2.0	µg/L	10.0		96.5	70-130				
1,2,3-Trichloropropane	8.85	2.0	µg/L	10.0		88.5	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 B171225 - SW-846 5030B											
LCS (B171225-BS1)				Prepared & Analyzed: 02/24/17							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.88	1.0	µg/L	10.0		98.8	70-130				
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
1,3,5-Trimethylbenzene	9.29	1.0	µg/L	10.0		92.9	70-130				
Vinyl Chloride	8.10	2.0	µg/L	10.0		81.0	40-160				†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130				
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/L	25.0		108	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.4	70-130				
LCS Dup (B171225-BSD1)				Prepared & Analyzed: 02/24/17							
Acetone	90.5	50	µg/L	100		90.5	70-160	5.38	25		†
Acrylonitrile	10.4	5.0	µg/L	10.0		104	70-130	4.71	25		
tert-Amyl Methyl Ether (TAME)	8.97	0.50	µg/L	10.0		89.7	70-130	4.33	25		
Benzene	10.6	1.0	µg/L	10.0		106	70-130	0.949	25		
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.28	25		
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	0.00	25		
Bromodichloromethane	11.6	0.50	µg/L	10.0		116	70-130	0.605	25		
Bromoform	9.98	1.0	µg/L	10.0		99.8	70-130	6.73	25		
Bromomethane	5.59	2.0	µg/L	10.0		55.9	40-160	**34.9** *	25	R-05	†
2-Butanone (MEK)	90.0	20	µg/L	100		90.0	40-160	4.43	25		†
tert-Butyl Alcohol (TBA)	56.6	20	µg/L	100		56.6	40-160	10.9	25	V-05	†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	0.368	25		
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130	1.28	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.03	25		
tert-Butyl Ethyl Ether (TBEE)	9.59	0.50	µg/L	10.0		95.9	70-130	3.93	25		
Carbon Disulfide	13.2	4.0	µg/L	10.0		**132** *	70-130	1.43	25	L-02	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107	70-130	1.41	25		
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.197	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	3.71	25		
Chloroethane	8.73	2.0	µg/L	10.0		87.3	70-130	2.60	25		
Chloroform	11.2	2.0	µg/L	10.0		112	70-130	2.53	25		
Chloromethane	7.34	2.0	µg/L	10.0		73.4	40-160	1.93	25		†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	0.00	25		
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130	0.0973	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.46	5.0	µg/L	10.0		94.6	70-130	0.956	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	7.11	25		
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	1.44	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.845	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.938	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.577	25		
trans-1,4-Dichloro-2-butene	9.25	2.0	µg/L	10.0		92.5	70-130	0.651	25		
Dichlorodifluoromethane (Freon 12)	6.49	2.0	µg/L	10.0		64.9	40-160	4.09	25		†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130	0.831	25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	3.80	25		
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.782	25		
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.480	25		
trans-1,2-Dichloroethylene	12.4	1.0	µg/L	10.0		124	70-130	0.404	25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130	0.388	25		
1,3-Dichloropropane	9.85	0.50	µg/L	10.0		98.5	70-130	1.12	25		
2,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	40-130	0.0935	25		†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130	0.0936	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 B171225 - SW-846 5030B											
LCS Dup (B171225-BSD1)				Prepared & Analyzed: 02/24/17							
cis-1,3-Dichloropropene	9.91	0.50	µg/L	10.0		99.1	70-130	3.18	25		
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	1.00	25		
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	5.34	25		
Diisopropyl Ether (DIPE)	9.96	0.50	µg/L	10.0		99.6	70-130	1.93	25		
1,4-Dioxane	80.1	50	µg/L	100		80.1	40-130	6.86	50	V-05	† ‡
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130	1.38	25		
Hexachlorobutadiene	12.5	0.60	µg/L	10.0		125	70-130	0.955	25		
2-Hexanone (MBK)	90.5	10	µg/L	100		90.5	70-160	6.70	25		†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	1.06	25		
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130	1.20	25		
Methyl Acetate	11.4	1.0	µg/L	10.0		114	70-130	6.82	25		
Methyl tert-Butyl Ether (MTBE)	9.35	1.0	µg/L	10.0		93.5	70-130	2.93	25		
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130	0.858	25		
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130	0.702	25		
4-Methyl-2-pentanone (MIBK)	88.2	10	µg/L	100		88.2	70-160	4.81	25		†
Naphthalene	6.98	2.0	µg/L	10.0		69.8	40-130	7.58	25	V-05	†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.291	25		
Styrene	9.80	1.0	µg/L	10.0		98.0	70-130	0.407	25		
1,1,1,2-Tetrachloroethane	9.68	1.0	µg/L	10.0		96.8	70-130	0.310	25		
1,1,2,2-Tetrachloroethane	9.43	0.50	µg/L	10.0		94.3	70-130	4.11	25		
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130	1.28	25		
Tetrahydrofuran	10.3	10	µg/L	10.0		103	70-130	5.08	25		
Toluene	10.6	1.0	µg/L	10.0		106	70-130	1.22	25		
1,2,3-Trichlorobenzene	8.92	5.0	µg/L	10.0		89.2	70-130	4.47	25		
1,2,4-Trichlorobenzene	9.56	1.0	µg/L	10.0		95.6	70-130	2.76	25		
1,3,5-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	4.25	25		
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.288	25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.17	25		
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	2.45	25		
Trichlorofluoromethane (Freon 11)	9.80	2.0	µg/L	10.0		98.0	70-130	1.54	25		
1,2,3-Trichloropropane	9.07	2.0	µg/L	10.0		90.7	70-130	2.46	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130	5.13	25		
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.00	25		
1,3,5-Trimethylbenzene	9.34	1.0	µg/L	10.0		93.4	70-130	0.537	25		
Vinyl Chloride	8.07	2.0	µg/L	10.0		80.7	40-160	0.371	25		†
m+p Xylene	20.9	2.0	µg/L	20.0		105	70-130	0.431	25		
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130	0.00	25		
Surrogate: 1,2-Dichloroethane-d4	*27.3*		µg/L	25.0		109	70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
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-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
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	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

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

CHAIN OF CUSTODY RECORD 17B0597

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:	DAN KEATING ~~Paul Ledoux~~ DC

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@cbi.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code	EPA 8260B (VOCs)
								3	H	V	
1	MW-112	2/14/17	0900		G	GW	U	3			3
2	MW-116D	2/14/17	1000		G	GW	U	3			3
3	MW-116S	2/14/17	1100		G	GW	U	3			3

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

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: 2/15/17 0600	
Received by: (signature)	Date/Time: 2-15-17 1120	
Relinquished by: (signature)	Date/Time: 2/15/17 1745	
Received by: (signature)	Date/Time: 2/15/17 1745	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 2/15/17 1845	

Detection Limit Requirements
MA
GT
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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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

Sample Receipt Checklist

CLIENT NAME: CB+I Env. **RECEIVED BY:** JM **DATE:** 2/15/17

1) **Was the chain(s) of custody relinquished and signed?** **Yes** ✓ **No** ____ **No COC Incl.**

2) **Does the chain agree with the samples?** **Yes** ✓ **No** ____
If not, explain:

3) **Are all the samples in good condition?** **Yes** ✓ **No** ____
If not, explain:

4) **How were the samples received:**
On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** ✓ **No** ____ **N/A** ____

Temperature °C by Temp blank ____ Temperature °C by Temp gun 3.7 temp gun #2

5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** ✓
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** ____ **No** ✓
Who was notified ____ Date ____ Time ____

7) **Location where samples are stored:** Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** ✓

9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** ✓

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	9	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 9 # Methanol ____ **Time and Date Frozen:**
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 2/15/17 1845

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

June 8, 2017

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

Project Location: 333 Adelaide Avenue, Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 17E0992

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

Sincerely,

James M. Georgantas
Project Manager

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Table of Contents (continued)

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

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

REPORT DATE: 6/8/2017

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17E0992

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

PROJECT LOCATION: 333 Adelaide Avenue, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-207S	17E0992-01	Ground Water		SW-846 8260C	
MW-207D	17E0992-02	Ground Water		SW-846 8260C	
MW-202S	17E0992-03	Ground Water		SW-846 8260C	
MW-202D	17E0992-04	Ground Water		SW-846 8260C	
MW-101S	17E0992-05	Ground Water		SW-846 8260C	
MW-101S Dup	17E0992-06	Ground Water		SW-846 8260C	
MW-101D	17E0992-07	Ground Water		SW-846 8260C	
MW-218S	17E0992-08	Ground Water		SW-846 8260C	
MW-218D	17E0992-09	Ground Water		SW-846 8260C	
MW-112	17E0992-10	Ground Water		SW-846 8260C	
MW-209	17E0992-11	Ground Water		SW-846 8260C	
MW-201D	17E0992-12	Ground Water		SW-846 8260C	
MW-216S	17E0992-13	Ground Water		SW-846 8260C	
MW-216D	17E0992-14	Ground Water		SW-846 8260C	
MW-217S	17E0992-15	Ground Water		SW-846 8260C	
MW-217D	17E0992-16	Ground Water		SW-846 8260C	
CW-1	17E0992-17	Ground Water		SW-846 8260C	
CW-2	17E0992-18	Ground Water		SW-846 8260C	
MW-116S	17E0992-19	Ground Water		SW-846 8260C	
MW-116D	17E0992-20	Ground Water		SW-846 8260C	
GZA-3	17E0992-21	Ground Water		SW-846 6020A-B	
				SW-846 8260C	
MW-109D	17E0992-22	Ground Water		SW-846 6020A-B	
				SW-846 8260C	
CW-6	17E0992-23	Ground Water		SW-846 8015C	
CW-6 Dup	17E0992-24	Ground Water		SW-846 8015C	
GZA-3 Dup	17E0992-25	Ground Water		SW-846 6020A-B	

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CASE NARRATIVE SUMMARY

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

REVISED REPORT - 8015 fingerprint reported on -23 & 24

SW-846 8015C

Qualifications:

Z-01

Sample contamination matches the range for that of #2 fuel oil, but it does not match the reference standard exactly.

Analyte & Samples(s) Qualified:

TPH (C9-C36)
17E0992-23[CW-6], 17E0992-24[CW-6 Dup]

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
17E0992-01[MW-207S], 17E0992-02[MW-207D], 17E0992-03[MW-202S], 17E0992-04[MW-202D], 17E0992-05[MW-101S], 17E0992-06[MW-101S Dup], 17E0992-07[MW-101D], 17E0992-08[MW-218S], 17E0992-09[MW-218D], 17E0992-10[MW-112], 17E0992-11[MW-209], 17E0992-12[MW-201D], 17E0992-13[MW-216S], 17E0992-14[MW-216D], 17E0992-15[MW-217S], 17E0992-16[MW-217D], 17E0992-17[CW-1], 17E0992-18[CW-2], 17E0992-19[MW-116S], 17E0992-20[MW-116D], 17E0992-21[GZA-3], 17E0992-22[MW-109D], B177645-BLK1, B177645-BS1, B177645-BSD1, B177648-BLK1, B177648-BS1, B177648-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17E0992-05[MW-101S], 17E0992-06[MW-101S Dup], 17E0992-10[MW-112], 17E0992-11[MW-209], 17E0992-12[MW-201D], 17E0992-13[MW-216S], 17E0992-17[CW-1]

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:

2,2-Dichloropropane
17E0992-01[MW-207S], 17E0992-07[MW-101D], 17E0992-08[MW-218S], 17E0992-09[MW-218D], 17E0992-11[MW-209], 17E0992-17[CW-1], 17E0992-18[CW-2], 17E0992-19[MW-116S], 17E0992-20[MW-116D], 17E0992-21[GZA-3], 17E0992-22[MW-109D], B177648-BLK1, B177648-BS1, B177648-BSD1

2-Butanone (MEK)
17E0992-01[MW-207S], 17E0992-07[MW-101D], 17E0992-08[MW-218S], 17E0992-09[MW-218D], 17E0992-11[MW-209], 17E0992-17[CW-1], 17E0992-18[CW-2], 17E0992-19[MW-116S], 17E0992-20[MW-116D], 17E0992-21[GZA-3], 17E0992-22[MW-109D], B177648-BLK1, B177648-BS1, B177648-BSD1

tert-Butyl Alcohol (TBA)
17E0992-01[MW-207S], 17E0992-07[MW-101D], 17E0992-08[MW-218S], 17E0992-09[MW-218D], 17E0992-11[MW-209], 17E0992-17[CW-1], 17E0992-18[CW-2], 17E0992-19[MW-116S], 17E0992-20[MW-116D], 17E0992-21[GZA-3], 17E0992-22[MW-109D], B177648-BLK1, B177648-BS1, B177648-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
B177645-BS1, B177645-BSD1

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

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C 11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

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.

Lisa A. Worthington
Project Manager

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-207S Sampled: 5/16/2017 08:00

Sample ID: 17E0992-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 16:35	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 16:35	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-207S Sampled: 5/16/2017 08:00

Sample ID: 17E0992-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Tetrachloroethylene	9.4	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Trichloroethylene	1.7	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 16:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.8	70-130		5/25/17 16:35
Toluene-d8	94.5	70-130		5/25/17 16:35
4-Bromofluorobenzene	104	70-130		5/25/17 16:35

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-207D Sampled: 5/16/2017 08:30

Sample ID: 17E0992-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
cis-1,2-Dichloroethylene	4.0	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-207D Sampled: 5/16/2017 08:30

Sample ID: 17E0992-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Tetrachloroethylene	4.3	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 21:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.8	70-130		5/24/17 21:58
Toluene-d8	97.8	70-130		5/24/17 21:58
4-Bromofluorobenzene	102	70-130		5/24/17 21:58

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-202S Sampled: 5/16/2017 09:00

Sample ID: 17E0992-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-202S Sampled: 5/16/2017 09:00

Sample ID: 17E0992-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Tetrachloroethylene	8.9	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:25	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.1	70-130		5/24/17 22:25
Toluene-d8	97.0	70-130		5/24/17 22:25
4-Bromofluorobenzene	101	70-130		5/24/17 22:25

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-202D Sampled: 5/16/2017 09:30

Sample ID: 17E0992-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-202D Sampled: 5/16/2017 09:30

Sample ID: 17E0992-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Tetrachloroethylene	28	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 22:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.9	70-130		5/24/17 22:52
Toluene-d8	96.8	70-130		5/24/17 22:52
4-Bromofluorobenzene	101	70-130		5/24/17 22:52

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101S Sampled: 5/16/2017 10:00

Sample ID: 17E0992-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	12000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Acrylonitrile	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Benzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Bromobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Bromochloromethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Bromodichloromethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Bromoform	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Bromomethane	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
2-Butanone (MEK)	ND	5000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
tert-Butyl Alcohol (TBA)	ND	5000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
n-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
sec-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
tert-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Carbon Disulfide	ND	1000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Carbon Tetrachloride	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Chlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Chlorodibromomethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Chloroethane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Chloroform	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Chloromethane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
2-Chlorotoluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
4-Chlorotoluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2-Dibromoethane (EDB)	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Dibromomethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,3-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,4-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
trans-1,4-Dichloro-2-butene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1-Dichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2-Dichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
cis-1,2-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
trans-1,2-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2-Dichloropropane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,3-Dichloropropane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
2,2-Dichloropropane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1-Dichloropropene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
cis-1,3-Dichloropropene	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
trans-1,3-Dichloropropene	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Diethyl Ether	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101S Sampled: 5/16/2017 10:00

Sample ID: 17E0992-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,4-Dioxane	ND	12000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Ethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Hexachlorobutadiene	ND	150	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
2-Hexanone (MBK)	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Isopropylbenzene (Cumene)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Methyl Acetate	ND	250	µg/L	250	L-04	SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Methyl Cyclohexane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Methylene Chloride	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Naphthalene	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
n-Propylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Styrene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1,1,2-Tetrachloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1,2,2-Tetrachloroethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Tetrachloroethylene	9200	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Tetrahydrofuran	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Toluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2,3-Trichlorobenzene	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2,4-Trichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,3,5-Trichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1,1-Trichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1,2-Trichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Trichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Trichlorofluoromethane (Freon 11)	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2,3-Trichloropropane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,2,4-Trimethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
1,3,5-Trimethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
Vinyl Chloride	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
m+p Xylene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH
o-Xylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	85.8	70-130			5/25/17 1:33
Toluene-d8	96.4	70-130			5/25/17 1:33
4-Bromofluorobenzene	104	70-130			5/25/17 1:33

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101S Dup Sampled: 5/16/2017 10:00

Sample ID: 17E0992-06

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	12000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Acrylonitrile	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Benzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Bromobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Bromochloromethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Bromodichloromethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Bromoform	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Bromomethane	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
2-Butanone (MEK)	ND	5000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
tert-Butyl Alcohol (TBA)	ND	5000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
n-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
sec-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
tert-Butylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Carbon Disulfide	ND	1000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Carbon Tetrachloride	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Chlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Chlorodibromomethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Chloroethane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Chloroform	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Chloromethane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
2-Chlorotoluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
4-Chlorotoluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2-Dibromoethane (EDB)	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Dibromomethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,3-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,4-Dichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
trans-1,4-Dichloro-2-butene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1-Dichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2-Dichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
cis-1,2-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
trans-1,2-Dichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2-Dichloropropane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,3-Dichloropropane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
2,2-Dichloropropane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1-Dichloropropene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
cis-1,3-Dichloropropene	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
trans-1,3-Dichloropropene	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Diethyl Ether	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101S Dup Sampled: 5/16/2017 10:00

Sample ID: 17E0992-06

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	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,4-Dioxane	ND	12000	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Ethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Hexachlorobutadiene	ND	150	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
2-Hexanone (MBK)	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Isopropylbenzene (Cumene)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Methyl Acetate	ND	250	µg/L	250	L-04	SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Methyl Cyclohexane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Methylene Chloride	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Naphthalene	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
n-Propylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Styrene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1,1,2-Tetrachloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1,2,2-Tetrachloroethane	ND	120	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Tetrachloroethylene	8700	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Tetrahydrofuran	ND	2500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Toluene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2,3-Trichlorobenzene	ND	1200	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2,4-Trichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,3,5-Trichlorobenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1,1-Trichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1,2-Trichloroethane	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Trichloroethylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Trichlorofluoromethane (Freon 11)	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2,3-Trichloropropane	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,2,4-Trimethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
1,3,5-Trimethylbenzene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
Vinyl Chloride	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
m+p Xylene	ND	500	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH
o-Xylene	ND	250	µg/L	250		SW-846 8260C	5/24/17	5/25/17 1:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.0	70-130		5/25/17 1:59
Toluene-d8	95.8	70-130		5/25/17 1:59
4-Bromofluorobenzene	104	70-130		5/25/17 1:59

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101D Sampled: 5/16/2017 10:30

Sample ID: 17E0992-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-101D Sampled: 5/16/2017 10:30

Sample ID: 17E0992-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Tetrachloroethylene	13	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.2	70-130		5/25/17 17:02
Toluene-d8	96.2	70-130		5/25/17 17:02
4-Bromofluorobenzene	102	70-130		5/25/17 17:02

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-218S Sampled: 5/16/2017 11:00

Sample ID: 17E0992-08

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	5/24/17	5/25/17 17:29	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-218S Sampled: 5/16/2017 11:00

Sample ID: 17E0992-08

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	5/24/17	5/25/17 17:29	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Tetrachloroethylene	43	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.3	70-130		5/25/17 17:29
Toluene-d8	95.8	70-130		5/25/17 17:29
4-Bromofluorobenzene	100	70-130		5/25/17 17:29

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-218D Sampled: 5/16/2017 11:30

Sample ID: 17E0992-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:56	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:56	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-218D Sampled: 5/16/2017 11:30

Sample ID: 17E0992-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Tetrachloroethylene	27	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Trichloroethylene	1.8	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 17:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.5	70-130		5/25/17 17:56
Toluene-d8	96.9	70-130		5/25/17 17:56
4-Bromofluorobenzene	101	70-130		5/25/17 17:56

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-112 Sampled: 5/16/2017 12:00

Sample ID: 17E0992-10

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Bromoform	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Bromomethane	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Chloromethane	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH

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

Project Location: 333 Adelaide Avenue, Providence | Sample Description: | Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-112 | Sampled: 5/16/2017 12:00

Sample ID: 17E0992-10

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Methyl Acetate	ND	5.0	µg/L	5	L-04	SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Naphthalene	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Tetrachloroethylene	400	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Trichloroethylene	9.8	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	5/24/17	5/25/17 3:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	88.0	70-130			5/25/17 3:20
Toluene-d8	96.4	70-130			5/25/17 3:20
4-Bromofluorobenzene	101	70-130			5/25/17 3:20

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-209 Sampled: 5/16/2017 12:30

Sample ID: 17E0992-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Bromoform	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Bromomethane	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
2-Butanone (MEK)	ND	40	µg/L	2	V-05	SW-846 8260C	5/24/17	5/25/17 18:23	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-05	SW-846 8260C	5/24/17	5/25/17 18:23	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1-Dichloroethylene	5.2	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
cis-1,2-Dichloroethylene	22	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
trans-1,2-Dichloroethylene	2.5	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2	V-05	SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-209 Sampled: 5/16/2017 12:30

Sample ID: 17E0992-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Methyl Acetate	ND	2.0	µg/L	2	L-04	SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Methyl tert-Butyl Ether (MTBE)	2.4	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Naphthalene	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Tetrachloroethylene	350	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Trichloroethylene	160	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 18:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.6	70-130		5/25/17 18:23
Toluene-d8	95.6	70-130		5/25/17 18:23
4-Bromofluorobenzene	102	70-130		5/25/17 18:23

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-201D Sampled: 5/16/2017 13:00

Sample ID: 17E0992-12

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Benzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Bromoform	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Bromomethane	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Carbon Disulfide	ND	200	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Chloroethane	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Chloroform	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Chloromethane	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-201D Sampled: 5/16/2017 13:00

Sample ID: 17E0992-12

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,4-Dioxane	ND	2500	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Methyl Acetate	ND	50	µg/L	50	L-04	SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Naphthalene	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Styrene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Tetrachloroethylene	5500	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Toluene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Trichloroethylene	160	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
m+p Xylene	ND	100	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH
o-Xylene	ND	50	µg/L	50		SW-846 8260C	5/24/17	5/25/17 4:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.8	70-130		5/25/17 4:14
Toluene-d8	96.3	70-130		5/25/17 4:14
4-Bromofluorobenzene	102	70-130		5/25/17 4:14

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-216S Sampled: 5/16/2017 13:30

Sample ID: 17E0992-13

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Bromoform	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Bromomethane	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
cis-1,2-Dichloroethylene	110	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-216S Sampled: 5/16/2017 13:30

Sample ID: 17E0992-13

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,4-Dioxane	ND	100	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Ethylbenzene	4.4	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Methyl Acetate	ND	2.0	µg/L	2	L-04	SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Methyl Cyclohexane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Naphthalene	33	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Toluene	2.0	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,2,4-Trimethylbenzene	17	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
1,3,5-Trimethylbenzene	8.7	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
m+p Xylene	5.9	4.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH
o-Xylene	14	2.0	µg/L	2		SW-846 8260C	5/24/17	5/25/17 0:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.9	70-130		5/25/17 0:39
Toluene-d8	97.5	70-130		5/25/17 0:39
4-Bromofluorobenzene	105	70-130		5/25/17 0:39

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-216D Sampled: 5/16/2017 14:00

Sample ID: 17E0992-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH

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

Project Location: 333 Adelaide Avenue, Providence | Sample Description: | Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-216D | Sampled: 5/16/2017 14:00

Sample ID: 17E0992-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.3	70-130		5/24/17 23:19
Toluene-d8	97.6	70-130		5/24/17 23:19
4-Bromofluorobenzene	103	70-130		5/24/17 23:19

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-217S Sampled: 5/16/2017 14:30

Sample ID: 17E0992-15

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	5/24/17	5/24/17 23:46	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-217S Sampled: 5/16/2017 14:30

Sample ID: 17E0992-15

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	5/24/17	5/24/17 23:46	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Tetrachloroethylene	7.3	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/24/17 23:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.3	70-130		5/24/17 23:46
Toluene-d8	96.8	70-130		5/24/17 23:46
4-Bromofluorobenzene	104	70-130		5/24/17 23:46

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-217D Sampled: 5/16/2017 15:00

Sample ID: 17E0992-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
cis-1,2-Dichloroethylene	87	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-217D Sampled: 5/16/2017 15:00

Sample ID: 17E0992-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Trichloroethylene	4.8	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 0:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.2	70-130		5/25/17 0:12
Toluene-d8	96.4	70-130		5/25/17 0:12
4-Bromofluorobenzene	103	70-130		5/25/17 0:12

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-1 Sampled: 5/17/2017 07:15

Sample ID: 17E0992-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Benzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Bromoform	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Bromomethane	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
2-Butanone (MEK)	ND	400	µg/L	20	V-05	SW-846 8260C	5/24/17	5/25/17 18:50	EEH
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	V-05	SW-846 8260C	5/24/17	5/25/17 18:50	EEH
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Chloroethane	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Chloroform	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Chloromethane	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
cis-1,2-Dichloroethylene	360	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
2,2-Dichloropropane	ND	20	µg/L	20	V-05	SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH

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

Project Location: 333 Adelaide Avenue, Providence | Sample Description: | Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-1 | Sampled: 5/17/2017 07:15

Sample ID: 17E0992-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,4-Dioxane	ND	1000	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Methyl Acetate	ND	20	µg/L	20	L-04	SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Naphthalene	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Styrene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Tetrachloroethylene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Toluene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Trichloroethylene	970	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH
o-Xylene	ND	20	µg/L	20		SW-846 8260C	5/24/17	5/25/17 18:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.3	70-130		5/25/17 18:50
Toluene-d8	95.7	70-130		5/25/17 18:50
4-Bromofluorobenzene	103	70-130		5/25/17 18:50

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-2 Sampled: 5/17/2017 08:45

Sample ID: 17E0992-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:27	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:27	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-2 Sampled: 5/17/2017 08:45

Sample ID: 17E0992-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.2	70-130		5/25/17 13:27
Toluene-d8	94.8	70-130		5/25/17 13:27
4-Bromofluorobenzene	101	70-130		5/25/17 13:27

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-116S Sampled: 5/17/2017 10:45

Sample ID: 17E0992-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:54	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:54	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-116S Sampled: 5/17/2017 10:45

Sample ID: 17E0992-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 13:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	86.8	70-130		5/25/17 13:54
Toluene-d8	96.6	70-130		5/25/17 13:54
4-Bromofluorobenzene	99.6	70-130		5/25/17 13:54

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-116D Sampled: 5/17/2017 12:00

Sample ID: 17E0992-20

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	5/24/17	5/25/17 14:21	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:21	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:21	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-116D Sampled: 5/17/2017 12:00

Sample ID: 17E0992-20

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	5/24/17	5/25/17 14:21	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.1	70-130		5/25/17 14:21
Toluene-d8	96.0	70-130		5/25/17 14:21
4-Bromofluorobenzene	102	70-130		5/25/17 14:21

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: GZA-3 Sampled: 5/17/2017 08:00

Sample ID: 17E0992-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:48	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:48	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
cis-1,2-Dichloroethylene	2.6	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: GZA-3 Sampled: 5/17/2017 08:00

Sample ID: 17E0992-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
Vinyl Chloride	12	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 14:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.8	70-130		5/25/17 14:48
Toluene-d8	99.1	70-130		5/25/17 14:48
4-Bromofluorobenzene	102	70-130		5/25/17 14:48

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: GZA-3 Sampled: 5/17/2017 08:00

Sample ID: 17E0992-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	8.7	5.0	µg/L	5		SW-846 6020A-B	5/23/17	5/24/17 10:24	MJH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-109D Sampled: 5/17/2017 09:00

Sample ID: 17E0992-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
2-Butanone (MEK)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 15:15	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 15:15	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-109D Sampled: 5/17/2017 09:00

Sample ID: 17E0992-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	5/24/17	5/25/17 15:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.4	70-130		5/25/17 15:15
Toluene-d8	97.3	70-130		5/25/17 15:15
4-Bromofluorobenzene	102	70-130		5/25/17 15:15

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

Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: MW-109D Sampled: 5/17/2017 09:00

Sample ID: 17E0992-22

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	5/23/17	5/24/17 10:27	MJH

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-6 Sampled: 5/17/2017 10:30

Sample ID: 17E0992-23

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	9.4	0.20	mg/L	1	Z-01	SW-846 8015C	5/31/17	6/2/17 13:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	59.0	40-140						6/2/17 13:52

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Project Location: 333 Adelaide Avenue, Providence Sample Description: Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: CW-6 Dup Sampled: 5/17/2017 10:30

Sample ID: 17E0992-24

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	9.2	0.20	mg/L	1	Z-01	SW-846 8015C	5/31/17	6/2/17 14:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	54.5	40-140				6/2/17 14:10	

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

Project Location: 333 Adelaide Avenue, Providence | Sample Description: | Work Order: 17E0992

Date Received: 5/18/2017

Field Sample #: GZA-3 Dup | Sampled: 5/17/2017 08:00

Sample ID: 17E0992-25

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	5/23/17	5/24/17 10:38	MJH

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E0992-21 [GZA-3]	B177540	50.0	50.0	05/23/17
17E0992-22 [MW-109D]	B177540	50.0	50.0	05/23/17
17E0992-25 [GZA-3 Dup]	B177540	50.0	50.0	05/23/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E0992-23 [CW-6]	B178135	1000	1.00	05/31/17
17E0992-24 [CW-6 Dup]	B178135	1000	1.00	05/31/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E0992-02 [MW-207D]	B177645	5	5.00	05/24/17
17E0992-03 [MW-202S]	B177645	5	5.00	05/24/17
17E0992-04 [MW-202D]	B177645	5	5.00	05/24/17
17E0992-05 [MW-101S]	B177645	0.02	5.00	05/24/17
17E0992-06 [MW-101S Dup]	B177645	0.02	5.00	05/24/17
17E0992-10 [MW-112]	B177645	1	5.00	05/24/17
17E0992-12 [MW-201D]	B177645	0.1	5.00	05/24/17
17E0992-13 [MW-216S]	B177645	2.5	5.00	05/24/17
17E0992-14 [MW-216D]	B177645	5	5.00	05/24/17
17E0992-15 [MW-217S]	B177645	5	5.00	05/24/17
17E0992-16 [MW-217D]	B177645	5	5.00	05/24/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E0992-01 [MW-207S]	B177648	5	5.00	05/24/17
17E0992-07 [MW-101D]	B177648	5	5.00	05/24/17
17E0992-08 [MW-218S]	B177648	5	5.00	05/24/17
17E0992-09 [MW-218D]	B177648	5	5.00	05/24/17
17E0992-11 [MW-209]	B177648	2.5	5.00	05/24/17
17E0992-17 [CW-1]	B177648	0.25	5.00	05/24/17
17E0992-18 [CW-2]	B177648	5	5.00	05/24/17
17E0992-19 [MW-116S]	B177648	5	5.00	05/24/17
17E0992-20 [MW-116D]	B177648	5	5.00	05/24/17
17E0992-21 [GZA-3]	B177648	5	5.00	05/24/17
17E0992-22 [MW-109D]	B177648	5	5.00	05/24/17

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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 B177645 - SW-846 5030B										
Blank (B177645-BLK1)				Prepared & Analyzed: 05/24/17						
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							

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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 B177645 - SW-846 5030B										
Blank (B177645-BLK1)				Prepared & Analyzed: 05/24/17						
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	*21.9*		µg/L	25.0		87.4	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
LCS (B177645-BS1)				Prepared & Analyzed: 05/24/17						
Acetone	84.3	50	µg/L	100		84.3	70-160			†
Acrylonitrile	8.06	5.0	µg/L	10.0		80.6	70-130			
tert-Amyl Methyl Ether (TAME)	9.02	0.50	µg/L	10.0		90.2	70-130			
Benzene	9.39	1.0	µg/L	10.0		93.9	70-130			
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	9.39	1.0	µg/L	10.0		93.9	70-130			
Bromodichloromethane	9.59	0.50	µg/L	10.0		95.9	70-130			
Bromoform	10.8	1.0	µg/L	10.0		108	70-130			
Bromomethane	4.17	2.0	µg/L	10.0		41.7	40-160			†
2-Butanone (MEK)	77.2	20	µg/L	100		77.2	40-160			†
tert-Butyl Alcohol (TBA)	70.1	20	µg/L	100		70.1	40-160			†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.06	0.50	µg/L	10.0		90.6	70-130			
Carbon Disulfide	12.8	4.0	µg/L	10.0		128	70-130			
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	8.53	2.0	µg/L	10.0		85.3	70-130			
Chloroform	9.74	2.0	µg/L	10.0		97.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B177645 - SW-846 5030B												
LCS (B177645-BS1)				Prepared & Analyzed: 05/24/17								
Chloromethane	4.21	2.0	µg/L	10.0		42.1		40-160				†
2-Chlorotoluene	9.35	1.0	µg/L	10.0		93.5		70-130				
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102		70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130				
Dibromomethane	10.7	1.0	µg/L	10.0		107		70-130				
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,4-Dichlorobenzene	9.64	1.0	µg/L	10.0		96.4		70-130				
trans-1,4-Dichloro-2-butene	9.89	2.0	µg/L	10.0		98.9		70-130				
Dichlorodifluoromethane (Freon 12)	4.68	2.0	µg/L	10.0		46.8		40-160				†
1,1-Dichloroethane	9.93	1.0	µg/L	10.0		99.3		70-130				
1,2-Dichloroethane	9.31	1.0	µg/L	10.0		93.1		70-130				
1,1-Dichloroethylene	8.77	1.0	µg/L	10.0		87.7		70-130				
cis-1,2-Dichloroethylene	9.21	1.0	µg/L	10.0		92.1		70-130				
trans-1,2-Dichloroethylene	9.36	1.0	µg/L	10.0		93.6		70-130				
1,2-Dichloropropane	9.18	1.0	µg/L	10.0		91.8		70-130				
1,3-Dichloropropane	9.33	0.50	µg/L	10.0		93.3		70-130				
2,2-Dichloropropane	9.83	1.0	µg/L	10.0		98.3		40-130				†
1,1-Dichloropropene	9.20	2.0	µg/L	10.0		92.0		70-130				
cis-1,3-Dichloropropene	9.52	0.50	µg/L	10.0		95.2		70-130				
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111		70-130				
Diethyl Ether	8.60	2.0	µg/L	10.0		86.0		70-130				
Diisopropyl Ether (DIPE)	8.42	0.50	µg/L	10.0		84.2		70-130				
1,4-Dioxane	124	50	µg/L	100		124		40-130			V-20	†
Ethylbenzene	10.6	1.0	µg/L	10.0		106		70-130				
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116		70-130				
2-Hexanone (MBK)	83.8	10	µg/L	100		83.8		70-160				†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113		70-130				
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102		70-130				
Methyl Acetate	4.86	1.0	µg/L	10.0		**48.6**	*	70-130			L-04	
Methyl tert-Butyl Ether (MTBE)	9.79	1.0	µg/L	10.0		97.9		70-130				
Methyl Cyclohexane	9.58	1.0	µg/L	10.0		95.8		70-130				
Methylene Chloride	9.98	5.0	µg/L	10.0		99.8		70-130				
4-Methyl-2-pentanone (MIBK)	83.6	10	µg/L	100		83.6		70-160				†
Naphthalene	9.92	2.0	µg/L	10.0		99.2		40-130				†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
Styrene	10.9	1.0	µg/L	10.0		109		70-130				
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130				
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113		70-130				
Tetrahydrofuran	8.62	10	µg/L	10.0		86.2		70-130				
Toluene	10.4	1.0	µg/L	10.0		104		70-130				
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108		70-130				
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
1,3,5-Trichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130				
1,1,1-Trichloroethane	9.87	1.0	µg/L	10.0		98.7		70-130				
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130				
Trichloroethylene	10.6	1.0	µg/L	10.0		106		70-130				
Trichlorofluoromethane (Freon 11)	8.10	2.0	µg/L	10.0		81.0		70-130				
1,2,3-Trichloropropane	9.96	2.0	µg/L	10.0		99.6		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 B177645 - SW-846 5030B										
LCS (B177645-BS1)				Prepared & Analyzed: 05/24/17						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.78	1.0	µg/L	10.0		87.8	70-130			
1,2,4-Trimethylbenzene	9.52	1.0	µg/L	10.0		95.2	70-130			
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Vinyl Chloride	7.97	2.0	µg/L	10.0		79.7	40-160			†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.0		89.8	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*26.3*		µg/L	25.0		105	70-130			
LCS Dup (B177645-BSD1)				Prepared & Analyzed: 05/24/17						
Acetone	85.2	50	µg/L	100		85.2	70-160	1.02	25	†
Acrylonitrile	8.86	5.0	µg/L	10.0		88.6	70-130	9.46	25	
tert-Amyl Methyl Ether (TAME)	9.60	0.50	µg/L	10.0		96.0	70-130	6.23	25	
Benzene	9.44	1.0	µg/L	10.0		94.4	70-130	0.531	25	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.378	25	
Bromochloromethane	9.42	1.0	µg/L	10.0		94.2	70-130	0.319	25	
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130	6.26	25	
Bromoform	10.9	1.0	µg/L	10.0		109	70-130	1.29	25	
Bromomethane	4.83	2.0	µg/L	10.0		48.3	40-160	14.7	25	†
2-Butanone (MEK)	76.9	20	µg/L	100		76.9	40-160	0.377	25	†
tert-Butyl Alcohol (TBA)	70.6	20	µg/L	100		70.6	40-160	0.710	25	†
n-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.23	25	
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.294	25	
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.491	25	
tert-Butyl Ethyl Ether (TBEE)	9.45	0.50	µg/L	10.0		94.5	70-130	4.21	25	
Carbon Disulfide	12.5	4.0	µg/L	10.0		125	70-130	2.46	25	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130	1.98	25	
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.567	25	
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	3.06	25	
Chloroethane	8.27	2.0	µg/L	10.0		82.7	70-130	3.10	25	
Chloroform	9.76	2.0	µg/L	10.0		97.6	70-130	0.205	25	
Chloromethane	4.35	2.0	µg/L	10.0		43.5	40-160	3.27	25	†
2-Chlorotoluene	9.08	1.0	µg/L	10.0		90.8	70-130	2.93	25	
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	1.49	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130	3.93	25	
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130	1.17	25	
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130	1.51	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.12	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.79	25	
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	3.97	25	
trans-1,4-Dichloro-2-butene	9.80	2.0	µg/L	10.0		98.0	70-130	0.914	25	
Dichlorodifluoromethane (Freon 12)	4.66	2.0	µg/L	10.0		46.6	40-160	0.428	25	†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	2.78	25	
1,2-Dichloroethane	9.32	1.0	µg/L	10.0		93.2	70-130	0.107	25	
1,1-Dichloroethylene	8.87	1.0	µg/L	10.0		88.7	70-130	1.13	25	
cis-1,2-Dichloroethylene	9.41	1.0	µg/L	10.0		94.1	70-130	2.15	25	
trans-1,2-Dichloroethylene	9.25	1.0	µg/L	10.0		92.5	70-130	1.18	25	
1,2-Dichloropropane	9.20	1.0	µg/L	10.0		92.0	70-130	0.218	25	
1,3-Dichloropropane	9.66	0.50	µg/L	10.0		96.6	70-130	3.48	25	
2,2-Dichloropropane	9.92	1.0	µg/L	10.0		99.2	40-130	0.911	25	†
1,1-Dichloropropene	9.31	2.0	µg/L	10.0		93.1	70-130	1.19	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 B177645 - SW-846 5030B												
LCS Dup (B177645-BSD1)				Prepared & Analyzed: 05/24/17								
cis-1,3-Dichloropropene	9.44	0.50	µg/L	10.0		94.4		70-130	0.844	25		
trans-1,3-Dichloropropene	11.6	0.50	µg/L	10.0		116		70-130	4.40	25		
Diethyl Ether	8.72	2.0	µg/L	10.0		87.2		70-130	1.39	25		
Diisopropyl Ether (DIPE)	8.54	0.50	µg/L	10.0		85.4		70-130	1.42	25		
1,4-Dioxane	117	50	µg/L	100		117		40-130	5.52	50	V-20	† ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130	0.935	25		
Hexachlorobutadiene	11.9	0.60	µg/L	10.0		119		70-130	2.64	25		
2-Hexanone (MBK)	84.9	10	µg/L	100		84.9		70-160	1.30	25		†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113		70-130	0.177	25		
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104		70-130	1.55	25		
Methyl Acetate	4.99	1.0	µg/L	10.0		**49.9**	*	70-130	2.64	25	L-04	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104		70-130	6.14	25		
Methyl Cyclohexane	9.61	1.0	µg/L	10.0		96.1		70-130	0.313	25		
Methylene Chloride	10.3	5.0	µg/L	10.0		103		70-130	3.06	25		
4-Methyl-2-pentanone (MIBK)	83.6	10	µg/L	100		83.6		70-160	0.0120	25		†
Naphthalene	10.1	2.0	µg/L	10.0		101		40-130	1.40	25		†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109		70-130	1.46	25		
Styrene	10.7	1.0	µg/L	10.0		107		70-130	2.31	25		
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111		70-130	2.10	25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105		70-130	0.665	25		
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115		70-130	1.40	25		
Tetrahydrofuran	9.18	10	µg/L	10.0		91.8		70-130	6.29	25		
Toluene	10.0	1.0	µg/L	10.0		100		70-130	3.24	25		
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.0		115		70-130	6.62	25		
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	2.87	25		
1,3,5-Trichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	1.14	25		
1,1,1-Trichloroethane	9.87	1.0	µg/L	10.0		98.7		70-130	0.00	25		
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130	1.34	25		
Trichloroethylene	10.7	1.0	µg/L	10.0		107		70-130	0.562	25		
Trichlorofluoromethane (Freon 11)	8.18	2.0	µg/L	10.0		81.8		70-130	0.983	25		
1,2,3-Trichloropropane	9.91	2.0	µg/L	10.0		99.1		70-130	0.503	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.06	1.0	µg/L	10.0		90.6		70-130	3.14	25		
1,2,4-Trimethylbenzene	9.72	1.0	µg/L	10.0		97.2		70-130	2.08	25		
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109		70-130	0.820	25		
Vinyl Chloride	7.95	2.0	µg/L	10.0		79.5		40-160	0.251	25		†
m+p Xylene	20.9	2.0	µg/L	20.0		104		70-130	1.43	25		
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130	1.88	25		
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.0		91.8		70-130				
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.8		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104		70-130				
Batch B177648 - SW-846 5030B												
Blank (B177648-BLK1)				Prepared: 05/24/17 Analyzed: 05/25/17								
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
Batch B177648 - SW-846 5030B										
Blank (B177648-BLK1)				Prepared: 05/24/17 Analyzed: 05/25/17						
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							V-05
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							V-05
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							L-04
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B177648 - SW-846 5030B											
Blank (B177648-BLK1)				Prepared: 05/24/17 Analyzed: 05/25/17							
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	*22.0*		µg/L	25.0		88.0	70-130				
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1	70-130				
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.7	70-130				
LCS (B177648-BS1)				Prepared: 05/24/17 Analyzed: 05/25/17							
Acetone	85.8	50	µg/L	100		85.8	70-160				†
Acrylonitrile	7.80	5.0	µg/L	10.0		78.0	70-130				
tert-Amyl Methyl Ether (TAME)	8.57	0.50	µg/L	10.0		85.7	70-130				
Benzene	8.77	1.0	µg/L	10.0		87.7	70-130				
Bromobenzene	9.93	1.0	µg/L	10.0		99.3	70-130				
Bromochloromethane	8.75	1.0	µg/L	10.0		87.5	70-130				
Bromodichloromethane	9.15	0.50	µg/L	10.0		91.5	70-130				
Bromoform	10.2	1.0	µg/L	10.0		102	70-130				
Bromomethane	4.46	2.0	µg/L	10.0		44.6	40-160				†
2-Butanone (MEK)	75.4	20	µg/L	100		75.4	40-160			V-05	†
tert-Butyl Alcohol (TBA)	67.6	20	µg/L	100		67.6	40-160			V-05	†
n-Butylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130				
sec-Butylbenzene	9.55	1.0	µg/L	10.0		95.5	70-130				
tert-Butylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130				
tert-Butyl Ethyl Ether (TBEE)	8.61	0.50	µg/L	10.0		86.1	70-130				
Carbon Disulfide	11.9	4.0	µg/L	10.0		119	70-130				
Carbon Tetrachloride	9.76	5.0	µg/L	10.0		97.6	70-130				
Chlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130				
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101	70-130				
Chloroethane	8.28	2.0	µg/L	10.0		82.8	70-130				
Chloroform	9.17	2.0	µg/L	10.0		91.7	70-130				
Chloromethane	4.15	2.0	µg/L	10.0		41.5	40-160				†
2-Chlorotoluene	8.55	1.0	µg/L	10.0		85.5	70-130				
4-Chlorotoluene	9.55	1.0	µg/L	10.0		95.5	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130				
1,2-Dibromoethane (EDB)	9.69	0.50	µg/L	10.0		96.9	70-130				
Dibromomethane	9.70	1.0	µg/L	10.0		97.0	70-130				
1,2-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130				
1,3-Dichlorobenzene	9.55	1.0	µg/L	10.0		95.5	70-130				

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B177648 - SW-846 5030B												
LCS (B177648-BS1)				Prepared: 05/24/17 Analyzed: 05/25/17								
1,4-Dichlorobenzene	9.07	1.0	µg/L	10.0		90.7		70-130				
trans-1,4-Dichloro-2-butene	9.49	2.0	µg/L	10.0		94.9		70-130				
Dichlorodifluoromethane (Freon 12)	4.39	2.0	µg/L	10.0		43.9		40-160				†
1,1-Dichloroethane	9.34	1.0	µg/L	10.0		93.4		70-130				
1,2-Dichloroethane	8.96	1.0	µg/L	10.0		89.6		70-130				
1,1-Dichloroethylene	8.20	1.0	µg/L	10.0		82.0		70-130				
cis-1,2-Dichloroethylene	8.60	1.0	µg/L	10.0		86.0		70-130				
trans-1,2-Dichloroethylene	8.78	1.0	µg/L	10.0		87.8		70-130				
1,2-Dichloropropane	8.86	1.0	µg/L	10.0		88.6		70-130				
1,3-Dichloropropane	8.40	0.50	µg/L	10.0		84.0		70-130				
2,2-Dichloropropane	7.77	1.0	µg/L	10.0		77.7		40-130			V-05	†
1,1-Dichloropropene	8.82	2.0	µg/L	10.0		88.2		70-130				
cis-1,3-Dichloropropene	8.53	0.50	µg/L	10.0		85.3		70-130				
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130				
Diethyl Ether	8.01	2.0	µg/L	10.0		80.1		70-130				
Diisopropyl Ether (DIPE)	7.63	0.50	µg/L	10.0		76.3		70-130				
1,4-Dioxane	112	50	µg/L	100		112		40-130				†
Ethylbenzene	9.90	1.0	µg/L	10.0		99.0		70-130				
Hexachlorobutadiene	10.9	0.60	µg/L	10.0		109		70-130				
2-Hexanone (MBK)	79.7	10	µg/L	100		79.7		70-160				†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106		70-130				
p-Isopropyltoluene (p-Cymene)	9.60	1.0	µg/L	10.0		96.0		70-130				
Methyl Acetate	5.34	1.0	µg/L	10.0		**53.4**	*	70-130			L-04	
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4		70-130				
Methyl Cyclohexane	8.68	1.0	µg/L	10.0		86.8		70-130				
Methylene Chloride	9.16	5.0	µg/L	10.0		91.6		70-130				
4-Methyl-2-pentanone (MIBK)	81.4	10	µg/L	100		81.4		70-160				†
Naphthalene	9.59	2.0	µg/L	10.0		95.9		40-130				†
n-Propylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Styrene	9.89	1.0	µg/L	10.0		98.9		70-130				
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100		70-130				
1,1,2,2-Tetrachloroethane	8.10	0.50	µg/L	10.0		81.0		70-130				
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130				
Tetrahydrofuran	8.82	10	µg/L	10.0		88.2		70-130				
Toluene	9.67	1.0	µg/L	10.0		96.7		70-130				
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110		70-130				
1,2,4-Trichlorobenzene	9.73	1.0	µg/L	10.0		97.3		70-130				
1,3,5-Trichlorobenzene	9.22	1.0	µg/L	10.0		92.2		70-130				
1,1,1-Trichloroethane	9.39	1.0	µg/L	10.0		93.9		70-130				
1,1,2-Trichloroethane	9.79	1.0	µg/L	10.0		97.9		70-130				
Trichloroethylene	11.1	1.0	µg/L	10.0		111		70-130				
Trichlorofluoromethane (Freon 11)	7.78	2.0	µg/L	10.0		77.8		70-130				
1,2,3-Trichloropropane	9.35	2.0	µg/L	10.0		93.5		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.33	1.0	µg/L	10.0		83.3		70-130				
1,2,4-Trimethylbenzene	8.97	1.0	µg/L	10.0		89.7		70-130				
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
Vinyl Chloride	7.57	2.0	µg/L	10.0		75.7		40-160				†
m+p Xylene	19.8	2.0	µg/L	20.0		98.9		70-130				
o-Xylene	9.94	1.0	µg/L	10.0		99.4		70-130				
Surrogate: 1,2-Dichloroethane-d4	*22.4*		µg/L	25.0		89.4		70-130				
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.6		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 B177648 - SW-846 5030B											
LCS (B177648-BS1)				Prepared: 05/24/17 Analyzed: 05/25/17							
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130				
LCS Dup (B177648-BSD1)				Prepared: 05/24/17 Analyzed: 05/25/17							
Acetone	80.5	50	µg/L	100		80.5	70-160	6.30	25		†
Acrylonitrile	7.97	5.0	µg/L	10.0		79.7	70-130	2.16	25		
tert-Amyl Methyl Ether (TAME)	8.15	0.50	µg/L	10.0		81.5	70-130	5.02	25		
Benzene	8.97	1.0	µg/L	10.0		89.7	70-130	2.25	25		
Bromobenzene	9.70	1.0	µg/L	10.0		97.0	70-130	2.34	25		
Bromochloromethane	8.64	1.0	µg/L	10.0		86.4	70-130	1.27	25		
Bromodichloromethane	9.71	0.50	µg/L	10.0		97.1	70-130	5.94	25		
Bromoform	10.3	1.0	µg/L	10.0		103	70-130	1.37	25		
Bromomethane	4.72	2.0	µg/L	10.0		47.2	40-160	5.66	25		†
2-Butanone (MEK)	71.7	20	µg/L	100		71.7	40-160	5.02	25	V-05	†
tert-Butyl Alcohol (TBA)	62.0	20	µg/L	100		62.0	40-160	8.61	25	V-05	†
n-Butylbenzene	9.85	1.0	µg/L	10.0		98.5	70-130	0.815	25		
sec-Butylbenzene	9.69	1.0	µg/L	10.0		96.9	70-130	1.46	25		
tert-Butylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130	2.91	25		
tert-Butyl Ethyl Ether (TBEE)	8.15	0.50	µg/L	10.0		81.5	70-130	5.49	25		
Carbon Disulfide	10.7	4.0	µg/L	10.0		107	70-130	10.3	25		
Carbon Tetrachloride	9.75	5.0	µg/L	10.0		97.5	70-130	0.103	25		
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.38	25		
Chlorodibromomethane	9.73	0.50	µg/L	10.0		97.3	70-130	3.43	25		
Chloroethane	7.94	2.0	µg/L	10.0		79.4	70-130	4.19	25		
Chloroform	9.20	2.0	µg/L	10.0		92.0	70-130	0.327	25		
Chloromethane	4.31	2.0	µg/L	10.0		43.1	40-160	3.78	25		†
2-Chlorotoluene	8.67	1.0	µg/L	10.0		86.7	70-130	1.39	25		
4-Chlorotoluene	9.86	1.0	µg/L	10.0		98.6	70-130	3.19	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.99	5.0	µg/L	10.0		99.9	70-130	1.88	25		
1,2-Dibromoethane (EDB)	9.62	0.50	µg/L	10.0		96.2	70-130	0.725	25		
Dibromomethane	9.76	1.0	µg/L	10.0		97.6	70-130	0.617	25		
1,2-Dichlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130	0.724	25		
1,3-Dichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130	2.38	25		
1,4-Dichlorobenzene	9.16	1.0	µg/L	10.0		91.6	70-130	0.987	25		
trans-1,4-Dichloro-2-butene	9.58	2.0	µg/L	10.0		95.8	70-130	0.944	25		
Dichlorodifluoromethane (Freon 12)	4.48	2.0	µg/L	10.0		44.8	40-160	2.03	25		†
1,1-Dichloroethane	9.41	1.0	µg/L	10.0		94.1	70-130	0.747	25		
1,2-Dichloroethane	8.83	1.0	µg/L	10.0		88.3	70-130	1.46	25		
1,1-Dichloroethylene	8.64	1.0	µg/L	10.0		86.4	70-130	5.23	25		
cis-1,2-Dichloroethylene	8.74	1.0	µg/L	10.0		87.4	70-130	1.61	25		
trans-1,2-Dichloroethylene	8.80	1.0	µg/L	10.0		88.0	70-130	0.228	25		
1,2-Dichloropropane	8.67	1.0	µg/L	10.0		86.7	70-130	2.17	25		
1,3-Dichloropropane	8.91	0.50	µg/L	10.0		89.1	70-130	5.89	25		
2,2-Dichloropropane	7.78	1.0	µg/L	10.0		77.8	40-130	0.129	25	V-05	†
1,1-Dichloropropene	8.93	2.0	µg/L	10.0		89.3	70-130	1.24	25		
cis-1,3-Dichloropropene	8.56	0.50	µg/L	10.0		85.6	70-130	0.351	25		
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	0.868	25		
Diethyl Ether	7.88	2.0	µg/L	10.0		78.8	70-130	1.64	25		
Diisopropyl Ether (DIPE)	7.95	0.50	µg/L	10.0		79.5	70-130	4.11	25		
1,4-Dioxane	100	50	µg/L	100		100	40-130	10.9	50		† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	2.69	25		
Hexachlorobutadiene	11.8	0.60	µg/L	10.0		118	70-130	7.48	25		
2-Hexanone (MBK)	77.8	10	µg/L	100		77.8	70-160	2.39	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 B177648 - SW-846 5030B												
LCS Dup (B177648-BSD1)				Prepared: 05/24/17 Analyzed: 05/25/17								
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107		70-130	0.376	25		
p-Isopropyltoluene (p-Cymene)	9.64	1.0	µg/L	10.0		96.4		70-130	0.416	25		
Methyl Acetate	4.88	1.0	µg/L	10.0		**48.8**	*	70-130	9.00	25	L-04	
Methyl tert-Butyl Ether (MTBE)	9.19	1.0	µg/L	10.0		91.9		70-130	2.68	25		
Methyl Cyclohexane	9.09	1.0	µg/L	10.0		90.9		70-130	4.61	25		
Methylene Chloride	8.73	5.0	µg/L	10.0		87.3		70-130	4.81	25		
4-Methyl-2-pentanone (MIBK)	79.0	10	µg/L	100		79.0		70-160	2.96	25		†
Naphthalene	9.17	2.0	µg/L	10.0		91.7		40-130	4.48	25		†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104		70-130	3.12	25		
Styrene	10.1	1.0	µg/L	10.0		101		70-130	2.40	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130	3.62	25		
1,1,2,2-Tetrachloroethane	9.91	0.50	µg/L	10.0		99.1		70-130	20.1	25		
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109		70-130	3.07	25		
Tetrahydrofuran	8.29	10	µg/L	10.0		82.9		70-130	6.20	25		
Toluene	9.67	1.0	µg/L	10.0		96.7		70-130	0.00	25		
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102		70-130	8.11	25		
1,2,4-Trichlorobenzene	9.38	1.0	µg/L	10.0		93.8		70-130	3.66	25		
1,3,5-Trichlorobenzene	9.62	1.0	µg/L	10.0		96.2		70-130	4.25	25		
1,1,1-Trichloroethane	9.55	1.0	µg/L	10.0		95.5		70-130	1.69	25		
1,1,2-Trichloroethane	9.76	1.0	µg/L	10.0		97.6		70-130	0.307	25		
Trichloroethylene	9.94	1.0	µg/L	10.0		99.4		70-130	11.3	25		
Trichlorofluoromethane (Freon 11)	7.78	2.0	µg/L	10.0		77.8		70-130	0.00	25		
1,2,3-Trichloropropane	9.48	2.0	µg/L	10.0		94.8		70-130	1.38	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.03	1.0	µg/L	10.0		80.3		70-130	3.67	25		
1,2,4-Trimethylbenzene	9.00	1.0	µg/L	10.0		90.0		70-130	0.334	25		
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130	3.42	25		
Vinyl Chloride	7.99	2.0	µg/L	10.0		79.9		40-160	5.40	25		†
m+p Xylene	20.0	2.0	µg/L	20.0		100		70-130	1.21	25		
o-Xylene	10.0	1.0	µg/L	10.0		100		70-130	1.10	25		
Surrogate: 1,2-Dichloroethane-d4	*21.6*		µg/L	25.0		86.3		70-130				
Surrogate: Toluene-d8	*23.9*		µg/L	25.0		95.7		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		70-130				

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178135 - SW-846 3510C										
Blank (B178135-BLK1)				Prepared: 05/31/17 Analyzed: 06/02/17						
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	*0.0885*		mg/L	0.100		88.5	40-140			
LCS (B178135-BS1)				Prepared: 05/31/17 Analyzed: 06/02/17						
Fuel Oil #2	0.760	0.20	mg/L	1.00		76.0	40-140			
Surrogate: o-Terphenyl	*0.0839*		mg/L	0.100		83.9	40-140			
LCS Dup (B178135-BSD1)				Prepared: 05/31/17 Analyzed: 06/02/17						
Fuel Oil #2	0.819	0.20	mg/L	1.00		81.9	40-140	7.47	25	
Surrogate: o-Terphenyl	*0.0861*		mg/L	0.100		86.1	40-140			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B177540 - SW-846 3005A Dissolved										
Blank (B177540-BLK1)				Prepared: 05/23/17 Analyzed: 05/24/17						
Lead	ND	5.0	µg/L							
LCS (B177540-BS1)				Prepared: 05/23/17 Analyzed: 05/24/17						
Lead	287	5.0	µg/L	250		115	80-120			
LCS Dup (B177540-BSD1)				Prepared: 05/23/17 Analyzed: 05/24/17						
Lead	257	5.0	µg/L	250		103	80-120	11.1	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-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.
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.
Z-01	Sample contamination matches the range for that of #2 fuel oil, but it does not match the reference standard exactly.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
Naphthalene	CT,NC,ME,NH-P
SW-846 6020A-B in Water	
Lead	CT,NH,NY,NC,ME,VA
SW-846 8260C in Water	
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc 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	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

17E0992

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	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:	Dan Leahy

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

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

Data Delivery
Format: PDF ☑ EXCEL ☐
Other: GIS Key format
Enhanced Data Package Required: ☐
Email To: brian.cote@cbi.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
1	MW-207S	5/16/17	0830		✓	GW	U	3	3		
2	MW-207D	5/16/17	0830			GW	U	3	3		
3	MW-202S	5/16/17	0900			GW	U	3	3		
4	MW-202D	5/16/17	0930					3	3		
5	MW-101S	5/16/17	1000					3	3		
6	MW-101S	5/16/17	1000					3	3		
7	MW-101D	5/16/17	1030					3	3		
8	MW-218S	5/16/17	1100					3	3		
9	MW-218D	5/16/17	1130					3	3		
10	MW-112	5/16/17	1200		✓	✓	✓	3	3		

ANALYSIS REQUESTED

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

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

Relinquished by: (signature)	Date/Time: 5/18/17 0620
Received by: (signature)	Date/Time: 5-18-17 15 9:14
Relinquished by: (signature)	Date/Time: 5/18/17 1715
Received by: (signature)	Date/Time: 5/18/17 1915
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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:	DAN 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: GIS Key format
Enhanced Data Package Required: ☐
Email To: brian.cote@cbi.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
								3			
								H			
								V			
11	MW-209	5/16/17	1230		G	GW	U	3	3		
12	MW-201D	5/16/17	1300			GW	U	3	3		
13	MW-216S	5/16/17	1330			GW	U	3	3		
14	MW-216D	5/16/17	1400					3	3		
15	MW-217S	5/16/17	1430					3	3		
16	MW-217D	5/16/17	1500					3	3		
17	CW-1	5/17/17	0715					3	3		
18	CW-2	5/17/17	0845					3	3		
19	MW-116S	5/17/17	1045					3	3		
20	MW-116D	5/17/17	1200		V	V	V	3	3		

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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O = Other (please define)

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

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

Comments:

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: 5/18/17 0600
Received by: (signature)	Date/Time: 5-18-17 15:14
Relinquished by: (signature)	Date/Time: " 7:15
Received by: (signature)	Date/Time: 5/18/17 1915
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other:

Program Information

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

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 0 5 8 2015

39 Spruce Street
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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:	Dan Kelly

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@cbi.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	EPA 8260B (VOCs)	Total Petroleum Hydrocarbons	Dissolved Lead
21	GZA-3	5/17/17	0800		G	GW	U	3		1
22	MW-109D	5/17/17	0900		G	GW	U	3		1
23	CW-6	5/17/17	1030		G	GW	U		2	
24	CW-6 DUP	5/17/17	1030		G	GW	U		2	
25	GZA-3 DUP	5/17/17	0800		G	GW	U			1

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

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[1] **Matrix Codes:**
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A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
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[3] **Container Codes:**
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V = Vial
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Relinquished by: (signature)	Date/Time: 5/18/17 0900
Received by: (signature)	Date/Time: 5-18-17 15:14
Relinquished by: (signature)	Date/Time: 5/18/17 7:15
Received by: (signature)	Date/Time: 5/18/17 1915
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other:

Program Information

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P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: CB+I Environ. RECEIVED BY: JM DATE: 5/18/17

1) **Was the chain(s) of custody relinquished and signed?** Yes ✓ No ____ No COC Incl.

2) **Does the chain agree with the samples?** Yes ✓ No ____
If not, explain:

3) **Are all the samples in good condition?** Yes ✓ No ____
If not, explain:

4) **How were the samples received:**
On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

Were the samples received in Temperature Compliance of (2-6°C)? Yes ✓ No ____ N/A ____

Temperature °C by Temp blank ____ # Temperature °C by Temp gun 2.2 #7

5) **Are there Dissolved samples for the lab to filter?** Yes ____ No ✓
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes ____ No ✓
Who was notified ____ Date ____ Time ____

7) **Location where samples are stored:** Login ✓

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** Yes ✓ No ____ N/A ____

9) **Do all samples have the proper Base pH:** Yes ____ No ____ N/A ✓

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes ____ N/A ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	3	SOC Kit	
40 mL Vial - type listed below	66	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 66 # Methanol ____ Time and Date Frozen:
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 5/18/17 1915

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	17E0992
Project Location:	333 Adelaide Avenue, Providence, RI	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

17E0992-01 thru 17E0992-25

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D (X)	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Tod Kopyscinski Position: Laboratory Director

Printed Name: Tod E. Kopyscinski Date: 05/26/17