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March 26, 2014

Project 130274

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

**Re: Status Report: December 2013 and January, February, and March 2014 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI**

Site Remediation Case No. 97-030

Dear Mr. Martella:

Shaw Environmental, Inc., a CB&I company, 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 (ug/L). This area was treated using in-situ applications of sodium permanganate. **Figure 2** shows the most recent treatment area.

This status report describes groundwater monitoring activities conducted at the site by Shaw.

This report includes results of groundwater sampling and analysis conducted in December 2013 and January, February, and March of 2014.

FIELD ACTIVITIES

Limited VOC Sampling Activities December 2013 and January and March 2014

Limited field activities were conducted on December 7, 2013 and January 14 and March 6, 2014. Monitoring wells MW-112, MW-116D, and MW-116S were sampled on these dates for volatile organic compounds (VOC) analysis.

Monitoring Activities

Groundwater elevation measurements were taken and are presented in **Table 1**.

Groundwater Sampling

Groundwater samples were collected for analysis for VOC analysis (EPA Method 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on December 7, 2013 and January 14 and March 6, 2014. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Semi-Annual Groundwater Sampling Activities February and March 2014

The following field activities were conducted on February 14 and March 6, 2014. Most of the monitoring wells that comprise the current semi-annual groundwater monitoring activities program were sampled on February 14, 2014. However, due to well access issues some of the semi-annual monitoring wells were sampled on March 6, 2014 (GZA-3 and MW-109D). Note that well MW-201D could not be accessed during this period due to the well roadbox being covered by a large snow pile.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on February 14, 2014. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and light non-aqueous phase liquid (LNAPL) thickness measurements were also collected. Elevation and field parameter results are presented in **Tables 1 and 2**.

Groundwater Sampling

On February 15 and March 6, 2014 groundwater samples were collected for analysis for VOCs (EPA Method 8260C) from 21 monitoring wells (excluding well MW-201D) within and around the treatment area, including the compliance wells. Duplicate samples were collected from, MW-101S (MW-101S DUP) for VOC analysis. One sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015 C) from monitoring well CW-6. One duplicate sample was collected from CW-6 (CW-6 DUP) for TPH analysis. Samples were also collected for lead analysis (EPA Method 6010C) from monitoring wells MW-109D and GZA-3. One duplicate sample was 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 in December 7, 2013 and January, February, and March 2014 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. The measured PCE concentrations were below the treatment goal of 7,700 ug/L in all wells. Note that the PCE concentrations in well MW-112 ranged from 2,100 ug/L in December 2013 to 1,800 ug/L in January 2014 to 3,200 ug/L in February 2014 to 1,200 ug/L in March 2014.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedances occurred for the Adelaide Avenue wells MW-112, MW-209D, and MW-218D for PCE. (Note: due to sample dilution by the laboratory, the reporting limits for 1,1-dichloroethene for well MW-112 in December, January, and February and for MW-209D were above the compound compliance standard. The reporting limits for vinyl chloride in wells MW-112 in December, January, and February, MW-209D, and MW-218D were above the compound compliance standards.)

FUTURE ACTIVITIES

The next limited sampling event is scheduled for April 4, 2014. The next semi-annual sampling event is scheduled for August 2014.

If you have any questions regarding this report, please contact Ed Van Doren at (617) 589-4030.

Sincerely,



Edward P. VanDoren
Project Manager
Shaw Environmental, Inc.
(A CB&I Company)

Attachments:

Tables

- Table 1 – Groundwater Elevations
- Table 2 – Summary Field Parameters
- Table 3 – VOCs in Groundwater
- Table 4 – Compliance Wells Analytical Results

Figures

- Figure 1 – Site Plan
- Figure 2 – Injection Well Locations


Attachment A - Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR
Greg Simpson, Textron
Jamieson Schiff, Textron
Dave Heislein, AMEC
Robert Azar, Providence Redevelopment Agency
Jeff Morgan, Stop & Shop
Ronald Ruth, Sherin and Lodgen

CERTIFICATIONS

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

I, Edward P. Van Doren, as an authorized representative of Shaw Environmental, Inc., a CB&I company, and the person responsible for the preparation of this Status Report dated March 26, 2014, certify that the information contained in this report is complete and accurate to the best of my knowledge.



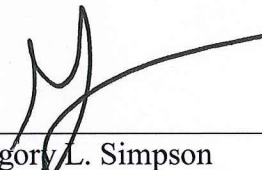
Edward P. Van Doren
Project Manager

3-31-14

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

MARCH 26, 2014

Date:

TABLES

Table 1
Summary Field Parameters
February 2014

Former Gorham Manufacturing Facility
Providence, Rhode Island

SITE_ID	DATE	pH	Temperature (deg.c)	Conductivity (ms/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mv)
MW-101D	2/14/2014	6.43	14.79	2.041	0.75	-25.7
MW-101S	2/14/2014	5.90	14.47	4.616	1.83	72.8
MW-112	2/14/2014	5.60	13.86	1.053	6.71	240.7
MW-116D	2/14/2014	5.41	13.89	1.088	4.10	260.9
MW-116S	2/14/2014	5.83	13.10	0.209	8.78	233.8
MW-201D	2/14/2014	NM	NM	NM	NM	NM
MW-202D	2/14/2014	6.25	14.42	0.684	1.19	241.3
MW-202S	2/14/2014	6.00	15.62	0.529	0.65	100.2
MW-207D	2/14/2014	6.28	15.88	0.654	0.98	120.5
MW-207S	2/14/2014	6.37	15.72	0.606	1.05	75.3
MW-209D	2/14/2014	6.76	13.32	0.460	0.94	18.8
MW-216D	2/14/2014	6.59	15.11	0.473	0.46	-44.8
MW-216S	2/14/2014	6.72	15.03	0.670	1.20	-77.2
MW-217D	2/14/2014	6.97	14.70	0.553	0.81	-116.3
MW-217S	2/14/2014	6.49	15.73	0.654	1.97	-70.6
MW-218D	2/14/2014	5.77	14.52	0.303	1.15	192.8
MW-218S	2/14/2014	6.12	15.82	0.756	0.90	57.3
Notes:						
C° = degrees Celsius		NM = Not measured. Well roadbox covered by snow.				
mS/cm = millisiemens per centimeter						
mg/L = milligrams per liter						
mV = milli volts						

**TABLE 2
GROUNDWATER ELEVATION DATA
(01/14/14 - 03/06/14)**

03/20/14

**Textron Gorham
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	02/14/14	99.52	25.84	--	--	73.68	DTB = 54.25'
CW-02	02/14/14	98.86	25.04	--	--	73.82	DTB = 54.46'
CW-06	02/14/14	99.52	25.03	--	--	74.49	DTB = 32.30'
GZA-3	03/06/14	NA	17.60	--	--	NA	DTB = 21.84'
MW-101D	02/14/14	98.91	25.17	--	--	73.74	DTB = 46.17'
MW-101S	02/14/14	98.90	24.67	--	--	74.23	DTB = 28.58'
MW-109D	03/06/14	NA	19.23	--	--	NA	DTB = 74.65'
MW-112	01/14/14	100.63	26.92	--	--	73.71	DTB = 34.30'
MW-112	02/14/14	100.63	26.84	--	--	73.79	DTB = 34.48'
MW-112	03/06/14	100.63	26.63	--	--	74.00	DTB = 34.58'
MW-116D	01/14/14	98.92	25.18	--	--	73.74	DTB = 44.16'
MW-116D	02/14/14	98.92	25.10	--	--	73.82	DTB = 44.24'
MW-116D	03/06/14	98.92	24.61	--	--	74.31	DTB = 44.20'
MW-116S	01/14/14	99.40	25.64	--	--	73.76	DTB = 28.58'
MW-116S	02/14/14	99.40	25.53	--	--	73.87	DTB = 28.55'
MW-116S	03/06/14	99.40	25.39	--	--	74.01	DTB = 28.59'
MW-201D	02/14/14	98.80	NM	--	--	NA	Well inaccessible.
MW-202D	02/14/14	98.17	24.38	--	--	73.79	DTB = 47.98'
MW-202S	02/14/14	98.06	24.29	--	--	73.77	DTB = 38.26'
MW-207D	02/14/14	98.18	24.43	--	--	73.75	DTB = 51.60'
MW-207S	02/14/14	98.28	24.54	--	--	73.74	DTB = 38.30'
MW-209D	02/14/14	99.90	26.57	--	--	73.33	DTB = 62.24'
MW-216D	02/14/14	98.69	26.07	--	--	72.62	DTB = 39.40'
MW-216S	02/14/14	99.58	25.73	--	--	73.85	DTB = 29.65'
MW-217D	02/14/14	98.65	25.12	--	--	73.53	DTB = 46.84'
MW-217S	02/14/14	98.71	25.14	--	--	73.57	DTB = 29.51'
MW-218D	02/14/14	99.67	25.87	--	--	73.80	DTB = 46.71'
MW-218S	02/14/14	99.61	25.81	--	--	73.80	DTB = 29.45'
MW-220S	02/14/14	99.41	25.62	--	--	73.79	DTB = 31.81'
MW-221S	02/14/14	98.92	26.84	25.59	1.25	73.24	

Notes:

feet = feet measured below ground surface

NA = Not Available

NM = Not Measured

TABLE 3
Groundwater Analytical Results
December 2013
January 2014 - March 2014

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	CW-01 2/14/2014 Primary	CW-02 2/14/2014 Primary	CW-06 2/15/2014 Primary	CW-06 2/15/2014 Duplicate	GZA-3 3/6/2014 Primary	GZA-3 3/6/2014 Duplicate	MW-101D 2/14/2014 Primary	MW-101S 2/14/2014 Primary	MW-101S 2/14/2014 Duplicate	MW-109D 3/6/2014 Primary
(VOC (ug/L))										
1,1-Dichloroethane	<50D	<1.0	---	---	1.4	---	<10D	<20D	<20D	<1.0
1,1-Dichloroethene	94D	<1.0	---	---	<1.0J	---	<10D	<20D	<20D	<1.0
1,2,4-Trimethylbenzene	<50D	<1.0	---	---	<1.0	---	<10D	<20D	<20D	<1.0
1,3,5-Trimethylbenzene	<50D	<1.0	---	---	<1.0	---	<10D	<20D	<20D	<1.0
4-Isopropyltoluene	<50D	<1.0	---	---	<1.0	---	<10D	<20D	<20D	<1.0
Bromodichloromethane	<25D	<0.50	---	---	<0.50	---	<5.0D	<10D	<10D	<0.50
Chloroform	<100D	<2.0	---	---	<2.0	---	<20D	<40D	<40D	<2.0
cis-1,2-Dichloroethene	230D	<1.0	---	---	47	---	78D	<20D	<20D	<1.0
Ethylbenzene	<50D	<1.0	---	---	<1.0	---	<10D	<20D	<20D	<1.0
Methyltert-butylether	<50D	<1.0	---	---	3	---	<10D	<20D	<20D	<1.0
Naphthalene	<100D	<2.0	---	---	<2.0	---	<20D	<40D	<40D	<2.0
Tetrachloroethene	<50JD	<1.0	---	---	<1.0	---	660D	1700D	1800D	<1.0
Toluene	<50D	<1.0	---	---	<1.0J	---	<10D	<20D	<20D	<1.0
Trichloroethene	5000D	<1.0J	---	---	4.2	---	18D	<20D	<20D	<1.0J
Vinyl chloride	<100D	<2.0	---	---	30	---	<20JD	<40D	<40D	<2.0
m/p-xylene	<100D	<2.0	---	---	<2.0	---	<20D	<40D	<40D	<2.0
o-Xylene	<50D	<1.0	---	---	<1.0	---	<10D	<20D	<20D	<1.0
Total Xylenes	<100D	<2.0	---	---	<2.0	---	<20D	<40D	<40D	<2.0
TPH (mg/L)										
TPH	---	---	5.2	5.5	---	---	---	---	---	---
Lead (mg/L)										
Lead (Dissolved)	---	---	---	---	<0.01	<0.01	---	---	---	---

Notes: < = Less than the laboratory reporting limit
 ug/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter, parts per million
 TPH = Total Petroleum Hydrocarbons

-- = Not analyzed for
 D = Result reported from a diluted sample
 J = Result is an estimated value

TABLE 3
Groundwater Analytical Results
December 2013
January 2014 - March 2014

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	MW-112 12/7/2013 Primary	MW-112 1/14/2014 Primary	MW-112 2/15/2014 Primary	MW-112 3/6/2014 Primary	MW-116D 12/7/2013 Primary	MW-116D 1/14/2014 Primary	MW-116D 2/15/2014 Primary	MW-116D 3/6/2014 Primary	MW-116S 12/7/2014 Primary	MW-116S 1/14/2014 Primary	MW-116S 2/15/2014 Primary
(VOC (ug/L))											
1,1-Dichloroethane	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Isopropyltoluene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<100D	<12D	<50D	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<200D	<50D	<200D	<2.0J	<2.0	<2.0	<2.0J	<2.0J	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	<100D	<25D	<100D	<1.0J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyltert-butylether	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	<200D	<50D	<200D	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	2100D	1800D	3200D	1200D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0J
Toluene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<100D	<25JD	<100JD	3.9	<1.0	<1.0J	<1.0J	<1.0J	<1.0	<1.0	<1.0
Vinyl chloride	<200D	<50D	<200D	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m/p-xylene	<200D	<50D	<200D	<2.0	<2.0	<2.0	<2.0	<2.0J	<2.0	<2.0	<2.0
o-Xylene	<100D	<25D	<100D	<1.0	<1.0	<1.0	<1.0	<1.0J	<1.0	<1.0	<1.0
Total Xylenes	<200D	<50D	<200D	<2.0	<2.0	<2.0	<2.0	<2.0J	<2.0	<2.0	<2.0
TPH (mg/L)											
TPH	---	---	---	---	---	---	---	---	---	---	---
Lead (mg/L)											
Lead (Dissolved)	---	---	---	---	---	---	---	---	---	---	---

Notes:

< = Less than the laboratory reporting limit
 ug/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter, parts per million
 TPH = Total Petroleum Hydrocarbons

-- = Not analyzed for
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TABLE 3
Groundwater Analytical Results
December 2013
January 2014 - March 2014

Former Gorham Manufacturing Facility
 Providence, Rhode Island

CONSTITUENT	MW-116S 3/6/2014 Primary	MW-202D 2/14/2014 Primary	MW-202S 2/14/2014 Primary	MW-207D 2/14/2014 Primary	MW-207S 2/14/2014 Primary	MW-209D 2/15/2014 Primary	MW-216D 2/14/2014 Primary	MW-216S 2/14/2014 Primary	MW-217D 2/14/2014 Primary	MW-217S 2/14/2014 Primary	MW-218D 2/15/2014 Primary	MW-218S 2/15/2014 Primary
(VOC (ug/L))												
1,1-Dichloroethane	<1.0	<20D	<10D	<2.0D	<4.0JD	<10D	<1.0	1.1	<1.0J	<1.0J	<2.0D	<1.0
1,1-Dichloroethene	<1.0	<20D	<10D	<2.0D	<4.0D	<10JD	<1.0	<1.0J	<1.0J	<1.0	<2.0D	<1.0
1,2,4-Trimethylbenzene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	12	<1.0	<1.0	<2.0D	<1.0
1,3,5-Trimethylbenzene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	7.7	<1.0	<1.0	<2.0D	<1.0
4-Isopropyltoluene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	1.4	<1.0	<1.0	<2.0D	<1.0
Bromodichloromethane	<0.50	<10D	<5.0D	<1.0D	<2.0D	<5.0D	<0.50	<0.50	<0.50	<0.50	1.1D	<0.50
Chloroform	<2.0	<40D	<20D	<4.0D	<8.0D	<20D	<2.0	<2.0	<2.0	<2.0	25D	<2.0
cis-1,2-Dichloroethene	<1.0	<20JD	<10JD	110D	16D	11D	<1.0J	120	54	4.6	3.2D	<1.0J
Ethylbenzene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	3	<1.0J	<1.0J	<2.0D	<1.0
Methyltert-butylether	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0J	<1.0	<1.0J	<1.0	<2.0D	<1.0
Naphthalene	<2.0	<40D	<20D	<4.0D	<8.0D	<20D	<2.0	24	2.4	2.6	<4.0D	<2.0
Tetrachloroethene	<1.0	2900D	1200D	83D	250D	600D	<1.0	<1.0J	<1.0J	2.4	370D	2.7
Toluene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	2.1	<1.0J	<1.0	<2.0D	<1.0
Trichloroethene	<1.0	32D	<10JD	9.8D	7.0D	190D	2.8	<1.0J	9	1.2	19D	<1.0J
Vinyl chloride	<2.0	<40D	<20D	<4.0D	<8.0D	<20D	<2.0	<2.0J	<2.0J	3.9	<4.0D	<2.0J
m/p-xylene	<2.0	<40D	<20D	<4.0D	<8.0D	<20D	<2.0	6.4	<2.0J	<2.0J	<4.0D	<2.0
o-Xylene	<1.0	<20D	<10D	<2.0D	<4.0D	<10D	<1.0	8.8	<1.0	<1.0J	<2.0D	<1.0
Total Xylenes	<2.0	<40D	<20D	<4.0D	<8.0D	<20D	<2.0	15.2	<2.0J	<2.0J	<4.0D	<2.0
TPH (mg/L)												
TPH	---	---	---	---	---	---	---	---	---	---	---	---
Lead (mg/L)												
Lead (Dissolved)	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

< = Less than the laboratory reporting limit
 ug/L = Micrograms per liter, parts per billion
 mg/L = Milligrams per liter, parts per million
 TPH = Total Petroleum Hydrocarbons

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TABLE 4
Groundwater Analytical Results
December 2013
January 2014 - March 2014

Former Gorham Manufacturing Facility
 Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	3/6/2014	3/6/2014	3/6/2014	Standard ¹
CONSTITUENT		Duplicate		
Metals (mg/L)				
Lead	<0.01	<0.01	<0.01	0.03
VOCs (ug/L)				
1,1-Dichloroethane	1.4	---	<1.0	50,000
1,1-Dichloroethene	<1.0J	---	<1.0	50,000
cis-1,2-Dichloroethene	47	---	<1.0	50,000
Methyl tert-butyl ether	3.0	---	<1.0	50,000
Tetrachloroethene	<1.0	---	<1.0	5,000
Trichloroethene	4.2	---	<1.0J	20,000
Vinyl chloride	30	---	<2.0	1,200

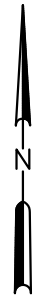
TPH Remediation Area Well			
Sample ID	CW-6	CW-6	Compliance
Date Collected	2/15/2014	2/15/2014	Standard ¹
CONSTITUENT		Duplicate	
TPH (mg/L)			
TPH	5.2	5.5	20

Sewer Interceptor Area Wells			
Sample ID	CW-1	CW-2	Compliance
Date Collected	2/14/2014	2/14/2014	Standard ²
CONSTITUENT			
VOCs (ug/L)			
1,1-Dichloroethane	<50D	NA	120,000
1,1-Dichloroethene	94D	NA	23,000
cis-1,2-Dichloroethene	230D	NA	69,000
trans-1,2-Dichloroethene	<50JD	NA	79,000
Tetrachloroethene	<50JD	NA	NS
Trichloroethene	5000D	NA	87,000

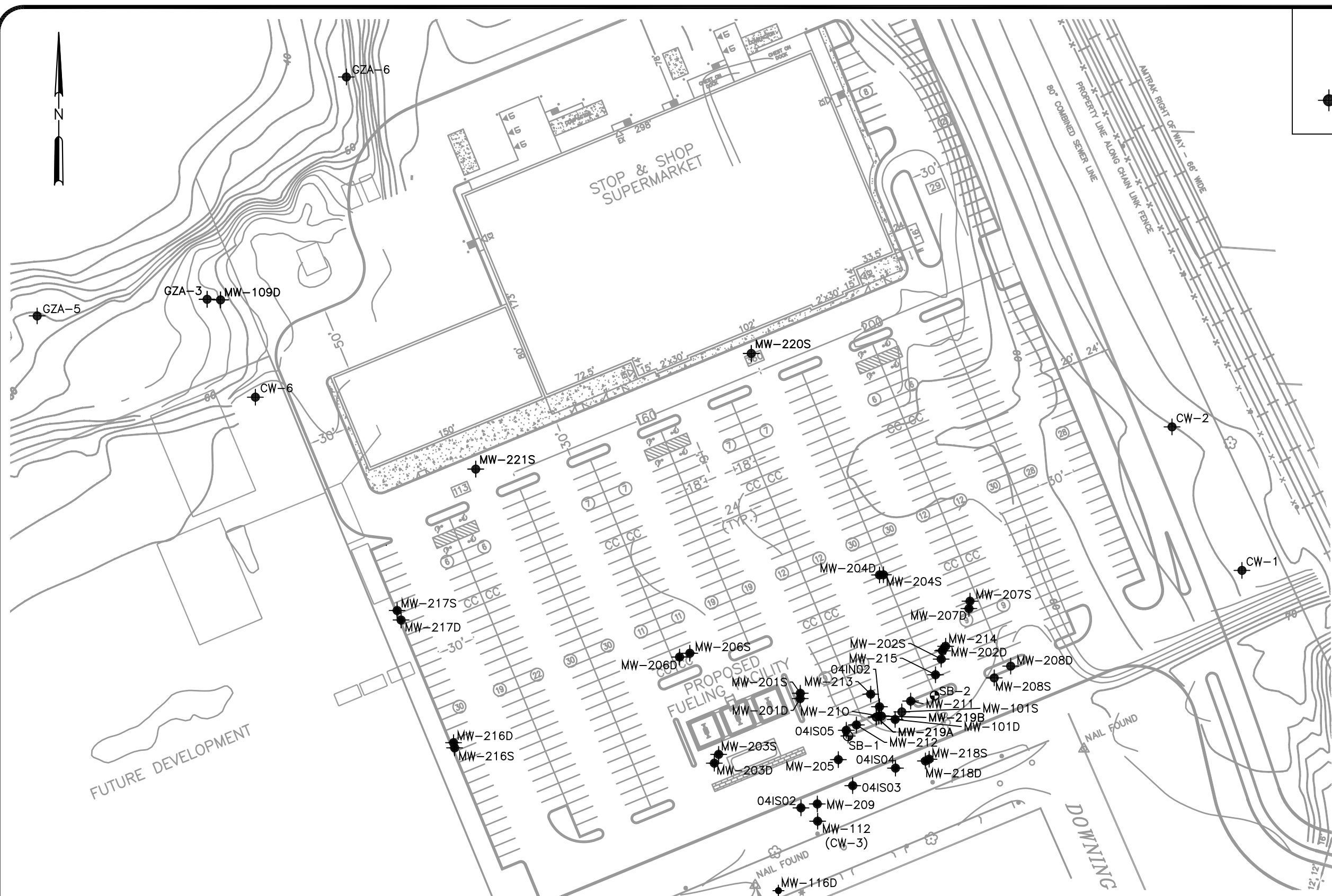
Adelaide Avenue Wells								
Sample ID	MW-112	MW-112	MW-112	MW-112	MW-209D	MW-218D	MW-218S	Compliance
Date Collected	12/7/2013	1/14/2014	2/15/2014	3/6/2014	2/15/2014	2/15/2014	2/15/2014	Standard ³
CONSTITUENT								
VOCs (ug/L)								
1,1-Dichloroethane	<100D	<25D	<100D	<1.0	<10D	<2.0D	<1.0	2,400
1,1-Dichloroethene	<100D	<25D	<100D	<1.0	<10JD	<2.0D	<1.0	7
cis-1,2-Dichloroethene	<100D	<25D	<100D	<1.0J	11D	3.2D	<1.0J	1,900
Methyl tert-butyl ether	<100D	<25D	<100D	<1.0	<10D	<2.0D	<1.0	5,000
Tetrachloroethene	2100D	1800D	3200D	1200D	600D	370D	2.7	150
Trichloroethene	<100D	<25JD	<100JD	3.9	190D	19D	<1.0J	540
Vinyl chloride	<200D	<50D	<200D	<2.0	<20D	<4.0D	<2.0J	2

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

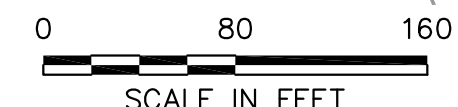
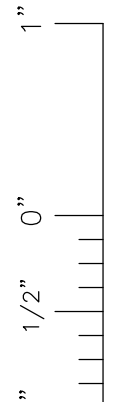
FIGURES



LEGEND
 ● MW-101S MONITORING WELL



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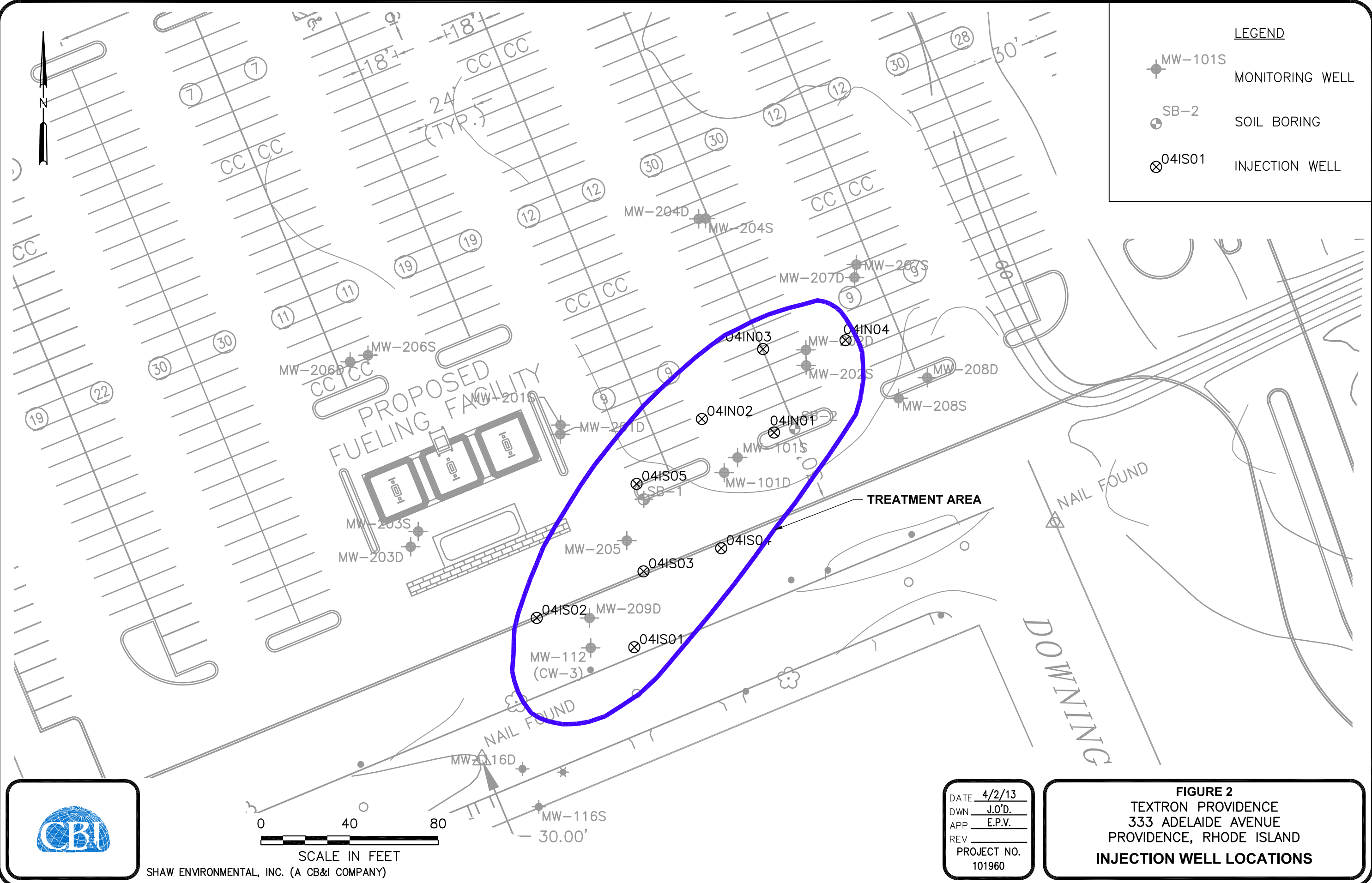
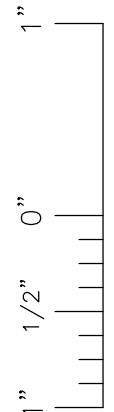


SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

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

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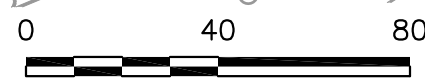


LEGEND

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



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

ATTACHMENT A

LABORATORY REPORTS

December 18, 2013

Edward Van Doren
Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 13L0468

Enclosed are results of analyses for samples received by the laboratory on December 11, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 12/18/2013

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13L0468

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

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	13L0468-01	Ground Water		SW-846 8260C	
MW-116D	13L0468-02	Ground Water		SW-846 8260C	
MW-116S	13L0468-03	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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:

trans-1,4-Dichloro-2-butene

13L0468-01[MW-112], 13L0468-02[MW-116D], 13L0468-03[MW-116S], B087034-BLK1, B087034-BS1, B087034-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane, 2-Hexanone (MBK)

B087034-BS1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13L0468-01[MW-112]

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, Dichlorodifluoromethane (Freon 12), trans-1,4-Dichloro-2-butene

13L0468-01[MW-112], 13L0468-02[MW-116D], 13L0468-03[MW-116S], B087034-BLK1, B087034-BS1, B087034-BSD1

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, tert-Butyl Alcohol (TBA)

13L0468-01[MW-112], 13L0468-02[MW-116D], 13L0468-03[MW-116S], B087034-BLK1, B087034-BS1, B087034-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane, Methylene Chloride

B087034-BS1, B087034-BSD1

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

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



Daren J. Damboragian
Laboratory Manager

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Field Sample #: MW-112

Sampled: 12/7/2013 09:15

Sample ID: 13L0468-01

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	5000	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Benzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Bromoform	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Bromomethane	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100	V-16	SW-846 8260C	12/13/13	12/14/13 2:26	EEH
n-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Chloroethane	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Chloroform	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Chloromethane	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100	L-04, V-05	SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100	V-05	SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Field Sample #: MW-112

Sampled: 12/7/2013 09:15

Sample ID: 13L0468-01

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	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,4-Dioxane	ND	5000	µg/L	100	V-05, V-16	SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Hexachlorobutadiene	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Naphthalene	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Styrene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Tetrachloroethylene	2100	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Toluene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Trichloroethylene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH
o-Xylene	ND	100	µg/L	100		SW-846 8260C	12/13/13	12/14/13 2:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.2	70-130	12/14/13 2:26
Toluene-d8	101	70-130	12/14/13 2:26
4-Bromofluorobenzene	99.7	70-130	12/14/13 2:26

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Field Sample #: MW-116D

Sampled: 12/7/2013 10:00

Sample ID: 13L0468-02

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	12/13/13	12/13/13 22:02	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	12/13/13	12/13/13 22:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Sampled: 12/7/2013 10:00

Field Sample #: MW-116D

Sample ID: 13L0468-02

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	12/13/13	12/13/13 22:02	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.5	70-130	12/13/13 22:02
Toluene-d8	102	70-130	12/13/13 22:02
4-Bromofluorobenzene	102	70-130	12/13/13 22:02

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Field Sample #: MW-116S

Sampled: 12/7/2013 10:30

Sample ID: 13L0468-03

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	12/13/13	12/13/13 22:29	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	12/13/13	12/13/13 22:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13L0468

Date Received: 12/11/2013

Field Sample #: MW-116S

Sampled: 12/7/2013 10:30

Sample ID: 13L0468-03

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	12/13/13	12/13/13 22:29	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/13	12/13/13 22:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.1	70-130	12/13/13 22:29
Toluene-d8	104	70-130	12/13/13 22:29
4-Bromofluorobenzene	101	70-130	12/13/13 22:29

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L0468-01 [MW-112]	B087034	0.05	5.00	12/13/13
13L0468-02 [MW-116D]	B087034	5	5.00	12/13/13
13L0468-03 [MW-116S]	B087034	5	5.00	12/13/13

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B087034 - SW-846 5030B

Blank (B087034-BLK1)

Prepared & Analyzed: 12/13/13

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							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							
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							L-04, V-05
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							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	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 tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B087034 - SW-846 5030B

Blank (B087034-BLK1)

Prepared & Analyzed: 12/13/13

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	23.2		µg/L	25.0		92.6	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

LCS (B087034-BS1)

Prepared & Analyzed: 12/13/13

Acetone	38.3	50	µg/L	50.0		76.6	70-160			†
Acrylonitrile	3.82	5.0	µg/L	5.00		76.4	70-130			
tert-Amyl Methyl Ether (TAME)	3.57	0.50	µg/L	5.00		71.4	70-130			
Benzene	4.13	1.0	µg/L	5.00		82.6	70-130			
Bromobenzene	4.59	1.0	µg/L	5.00		91.8	70-130			
Bromochloromethane	4.36	1.0	µg/L	5.00		87.2	70-130			
Bromodichloromethane	4.68	0.50	µg/L	5.00		93.6	70-130			
Bromoform	4.44	1.0	µg/L	5.00		88.8	70-130			
Bromomethane	4.93	2.0	µg/L	5.00		98.6	40-160		V-20	†
2-Butanone (MEK)	35.3	20	µg/L	50.0		70.7	40-160			†
tert-Butyl Alcohol (TBA)	37.9	20	µg/L	50.0		75.8	40-160		V-16	†
n-Butylbenzene	4.60	1.0	µg/L	5.00		92.0	70-130			
sec-Butylbenzene	4.33	1.0	µg/L	5.00		86.6	70-130			
tert-Butylbenzene	4.32	1.0	µg/L	5.00		86.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	3.64	0.50	µg/L	5.00		72.8	70-130			
Carbon Disulfide	5.58	4.0	µg/L	5.00		112	70-130			
Carbon Tetrachloride	4.41	5.0	µg/L	5.00		88.2	70-130			
Chlorobenzene	4.75	1.0	µg/L	5.00		95.0	70-130			
Chlorodibromomethane	4.58	0.50	µg/L	5.00		91.6	70-130			
Chloroethane	5.31	2.0	µg/L	5.00		106	70-130			
Chloroform	3.58	2.0	µg/L	5.00		71.6	70-130			
Chloromethane	4.91	2.0	µg/L	5.00		98.2	40-160			†
2-Chlorotoluene	4.52	1.0	µg/L	5.00		90.4	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B087034 - SW-846 5030B										
LCS (B087034-BS1)										
Prepared & Analyzed: 12/13/13										
4-Chlorotoluene	4.67	1.0	µg/L	5.00		93.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	3.50	5.0	µg/L	5.00		70.0	70-130			
1,2-Dibromoethane (EDB)	4.50	0.50	µg/L	5.00		90.0	70-130			
Dibromomethane	4.58	1.0	µg/L	5.00		91.6	70-130			
1,2-Dichlorobenzene	4.46	1.0	µg/L	5.00		89.2	70-130			
1,3-Dichlorobenzene	4.49	1.0	µg/L	5.00		89.8	70-130			
1,4-Dichlorobenzene	4.62	1.0	µg/L	5.00		92.4	70-130			
trans-1,4-Dichloro-2-butene	2.46	2.0	µg/L	5.00		49.2 *	70-130			L-04, V-05
Dichlorodifluoromethane (Freon 12)	2.66	2.0	µg/L	5.00		53.2	40-160			V-05 †
1,1-Dichloroethane	4.83	1.0	µg/L	5.00		96.6	70-130			
1,2-Dichloroethane	3.50	1.0	µg/L	5.00		70.0	70-130			
1,1-Dichloroethylene	4.16	1.0	µg/L	5.00		83.2	70-130			
cis-1,2-Dichloroethylene	4.63	1.0	µg/L	5.00		92.6	70-130			
trans-1,2-Dichloroethylene	4.57	1.0	µg/L	5.00		91.4	70-130			
1,2-Dichloropropane	4.41	1.0	µg/L	5.00		88.2	70-130			
1,3-Dichloropropane	4.52	0.50	µg/L	5.00		90.4	70-130			
2,2-Dichloropropane	4.14	1.0	µg/L	5.00		82.8	40-130			†
1,1-Dichloropropene	4.45	2.0	µg/L	5.00		89.0	70-130			
cis-1,3-Dichloropropene	4.33	0.50	µg/L	5.00		86.6	70-130			
trans-1,3-Dichloropropene	4.50	0.50	µg/L	5.00		90.0	70-130			
Diethyl Ether	3.68	2.0	µg/L	5.00		73.6	70-130			
Diisopropyl Ether (DIPE)	4.25	0.50	µg/L	5.00		85.0	70-130			
1,4-Dioxane	14.9	50	µg/L	50.0		29.9 *	40-130			L-07, V-05, V-16 †
Ethylbenzene	4.52	1.0	µg/L	5.00		90.4	70-130			
Hexachlorobutadiene	4.62	0.50	µg/L	5.00		92.4	70-130			
2-Hexanone (MBK)	34.4	10	µg/L	50.0		68.8 *	70-160			L-07 †
Isopropylbenzene (Cumene)	4.48	1.0	µg/L	5.00		89.6	70-130			
p-Isopropyltoluene (p-Cymene)	4.44	1.0	µg/L	5.00		88.8	70-130			
Methyl tert-Butyl Ether (MTBE)	4.01	1.0	µg/L	5.00		80.2	70-130			
Methylene Chloride	5.29	5.0	µg/L	5.00		106	70-130			V-20
4-Methyl-2-pentanone (MIBK)	35.4	10	µg/L	50.0		70.9	70-160			†
Naphthalene	3.72	2.0	µg/L	5.00		74.4	40-130			†
n-Propylbenzene	4.52	1.0	µg/L	5.00		90.4	70-130			
Styrene	4.82	1.0	µg/L	5.00		96.4	70-130			
1,1,1,2-Tetrachloroethane	4.82	1.0	µg/L	5.00		96.4	70-130			
1,1,2,2-Tetrachloroethane	4.49	0.50	µg/L	5.00		89.8	70-130			
Tetrachloroethylene	4.55	1.0	µg/L	5.00		91.0	70-130			
Tetrahydrofuran	3.80	10	µg/L	5.00		76.0	70-130			
Toluene	4.41	1.0	µg/L	5.00		88.2	70-130			
1,2,3-Trichlorobenzene	3.89	5.0	µg/L	5.00		77.8	70-130			
1,2,4-Trichlorobenzene	4.38	1.0	µg/L	5.00		87.6	70-130			
1,3,5-Trichlorobenzene	4.27	1.0	µg/L	5.00		85.4	70-130			
1,1,1-Trichloroethane	4.26	1.0	µg/L	5.00		85.2	70-130			
1,1,2-Trichloroethane	4.45	1.0	µg/L	5.00		89.0	70-130			
Trichloroethylene	4.24	1.0	µg/L	5.00		84.8	70-130			
Trichlorofluoromethane (Freon 11)	4.25	2.0	µg/L	5.00		85.0	70-130			
1,2,3-Trichloropropane	4.29	2.0	µg/L	5.00		85.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.26	1.0	µg/L	5.00		85.2	70-130			
1,2,4-Trimethylbenzene	4.33	1.0	µg/L	5.00		86.6	70-130			
1,3,5-Trimethylbenzene	4.45	1.0	µg/L	5.00		89.0	70-130			
Vinyl Chloride	3.30	2.0	µg/L	5.00		66.0	40-160			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B087034 - SW-846 5030B

LCS (B087034-BS1)

Prepared & Analyzed: 12/13/13

m+p Xylene	9.02	2.0	µg/L	10.0		90.2	70-130			
o-Xylene	4.65	1.0	µg/L	5.00		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.1		µg/L	25.0		88.5	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.7	70-130			

LCS Dup (B087034-BSD1)

Prepared & Analyzed: 12/13/13

Acetone	43.5	50	µg/L	50.0		87.0	70-160	12.6	25	†
Acrylonitrile	4.10	5.0	µg/L	5.00		82.0	70-130	7.07	25	
tert-Amyl Methyl Ether (TAME)	3.67	0.50	µg/L	5.00		73.4	70-130	2.76	25	
Benzene	4.39	1.0	µg/L	5.00		87.8	70-130	6.10	25	
Bromobenzene	4.78	1.0	µg/L	5.00		95.6	70-130	4.06	25	
Bromochloromethane	4.48	1.0	µg/L	5.00		89.6	70-130	2.71	25	
Bromodichloromethane	4.69	0.50	µg/L	5.00		93.8	70-130	0.213	25	
Bromoform	4.91	1.0	µg/L	5.00		98.2	70-130	10.1	25	
Bromomethane	5.86	2.0	µg/L	5.00		117	40-160	17.2	25	V-20 †
2-Butanone (MEK)	39.9	20	µg/L	50.0		79.7	40-160	12.0	25	†
tert-Butyl Alcohol (TBA)	43.8	20	µg/L	50.0		87.6	40-160	14.5	25	V-16 †
n-Butylbenzene	4.83	1.0	µg/L	5.00		96.6	70-130	4.88	25	
sec-Butylbenzene	4.57	1.0	µg/L	5.00		91.4	70-130	5.39	25	
tert-Butylbenzene	4.42	1.0	µg/L	5.00		88.4	70-130	2.29	25	
tert-Butyl Ethyl Ether (TBEE)	3.83	0.50	µg/L	5.00		76.6	70-130	5.09	25	
Carbon Disulfide	5.43	4.0	µg/L	5.00		109	70-130	2.72	25	
Carbon Tetrachloride	4.41	5.0	µg/L	5.00		88.2	70-130	0.00	25	
Chlorobenzene	4.72	1.0	µg/L	5.00		94.4	70-130	0.634	25	
Chlorodibromomethane	5.03	0.50	µg/L	5.00		101	70-130	9.37	25	
Chloroethane	5.74	2.0	µg/L	5.00		115	70-130	7.78	25	
Chloroform	3.80	2.0	µg/L	5.00		76.0	70-130	5.96	25	
Chloromethane	5.24	2.0	µg/L	5.00		105	40-160	6.50	25	†
2-Chlorotoluene	4.70	1.0	µg/L	5.00		94.0	70-130	3.90	25	
4-Chlorotoluene	4.93	1.0	µg/L	5.00		98.6	70-130	5.42	25	
1,2-Dibromo-3-chloropropane (DBCP)	3.89	5.0	µg/L	5.00		77.8	70-130	10.6	25	
1,2-Dibromoethane (EDB)	4.74	0.50	µg/L	5.00		94.8	70-130	5.19	25	
Dibromomethane	4.91	1.0	µg/L	5.00		98.2	70-130	6.95	25	
1,2-Dichlorobenzene	4.68	1.0	µg/L	5.00		93.6	70-130	4.81	25	
1,3-Dichlorobenzene	4.71	1.0	µg/L	5.00		94.2	70-130	4.78	25	
1,4-Dichlorobenzene	4.88	1.0	µg/L	5.00		97.6	70-130	5.47	25	
trans-1,4-Dichloro-2-butene	2.78	2.0	µg/L	5.00		55.6 *	70-130	12.2	25	L-04, V-05
Dichlorodifluoromethane (Freon 12)	2.84	2.0	µg/L	5.00		56.8	40-160	6.55	25	V-05 †
1,1-Dichloroethane	4.85	1.0	µg/L	5.00		97.0	70-130	0.413	25	
1,2-Dichloroethane	3.75	1.0	µg/L	5.00		75.0	70-130	6.90	25	
1,1-Dichloroethylene	4.42	1.0	µg/L	5.00		88.4	70-130	6.06	25	
cis-1,2-Dichloroethylene	4.82	1.0	µg/L	5.00		96.4	70-130	4.02	25	
trans-1,2-Dichloroethylene	4.56	1.0	µg/L	5.00		91.2	70-130	0.219	25	
1,2-Dichloropropane	4.55	1.0	µg/L	5.00		91.0	70-130	3.13	25	
1,3-Dichloropropane	4.84	0.50	µg/L	5.00		96.8	70-130	6.84	25	
2,2-Dichloropropane	4.31	1.0	µg/L	5.00		86.2	40-130	4.02	25	†
1,1-Dichloropropene	4.70	2.0	µg/L	5.00		94.0	70-130	5.46	25	
cis-1,3-Dichloropropene	4.55	0.50	µg/L	5.00		91.0	70-130	4.95	25	
trans-1,3-Dichloropropene	4.78	0.50	µg/L	5.00		95.6	70-130	6.03	25	
Diethyl Ether	4.04	2.0	µg/L	5.00		80.8	70-130	9.33	25	
Diisopropyl Ether (DIPE)	4.54	0.50	µg/L	5.00		90.8	70-130	6.60	25	

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 B087034 - SW-846 5030B										
LCS Dup (B087034-BSD1)										
Prepared & Analyzed: 12/13/13										
1,4-Dioxane	21.9	50	µg/L	50.0		43.9	40-130	38.0	50	V-05, V-16 † ‡
Ethylbenzene	4.65	1.0	µg/L	5.00		93.0	70-130	2.84	25	
Hexachlorobutadiene	4.30	0.50	µg/L	5.00		86.0	70-130	7.17	25	
2-Hexanone (MBK)	37.3	10	µg/L	50.0		74.5	70-160	8.01	25	†
Isopropylbenzene (Cumene)	4.71	1.0	µg/L	5.00		94.2	70-130	5.01	25	
p-Isopropyltoluene (p-Cymene)	4.50	1.0	µg/L	5.00		90.0	70-130	1.34	25	
Methyl tert-Butyl Ether (MTBE)	4.25	1.0	µg/L	5.00		85.0	70-130	5.81	25	
Methylene Chloride	5.15	5.0	µg/L	5.00		103	70-130	2.68	25	V-20
4-Methyl-2-pentanone (MIBK)	39.9	10	µg/L	50.0		79.8	70-160	11.8	25	†
Naphthalene	3.88	2.0	µg/L	5.00		77.6	40-130	4.21	25	†
n-Propylbenzene	4.81	1.0	µg/L	5.00		96.2	70-130	6.22	25	
Styrene	4.76	1.0	µg/L	5.00		95.2	70-130	1.25	25	
1,1,1,2-Tetrachloroethane	4.92	1.0	µg/L	5.00		98.4	70-130	2.05	25	
1,1,2,2-Tetrachloroethane	4.66	0.50	µg/L	5.00		93.2	70-130	3.72	25	
Tetrachloroethylene	4.89	1.0	µg/L	5.00		97.8	70-130	7.20	25	
Tetrahydrofuran	4.12	10	µg/L	5.00		82.4	70-130	8.08	25	
Toluene	4.66	1.0	µg/L	5.00		93.2	70-130	5.51	25	
1,2,3-Trichlorobenzene	4.00	5.0	µg/L	5.00		80.0	70-130	2.79	25	
1,2,4-Trichlorobenzene	4.43	1.0	µg/L	5.00		88.6	70-130	1.14	25	
1,3,5-Trichlorobenzene	4.36	1.0	µg/L	5.00		87.2	70-130	2.09	25	
1,1,1-Trichloroethane	4.60	1.0	µg/L	5.00		92.0	70-130	7.67	25	
1,1,2-Trichloroethane	4.76	1.0	µg/L	5.00		95.2	70-130	6.73	25	
Trichloroethylene	4.40	1.0	µg/L	5.00		88.0	70-130	3.70	25	
Trichlorofluoromethane (Freon 11)	4.49	2.0	µg/L	5.00		89.8	70-130	5.49	25	
1,2,3-Trichloropropane	4.56	2.0	µg/L	5.00		91.2	70-130	6.10	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.66	1.0	µg/L	5.00		93.2	70-130	8.97	25	
1,2,4-Trimethylbenzene	4.44	1.0	µg/L	5.00		88.8	70-130	2.51	25	
1,3,5-Trimethylbenzene	4.71	1.0	µg/L	5.00		94.2	70-130	5.68	25	
Vinyl Chloride	3.56	2.0	µg/L	5.00		71.2	40-160	7.58	25	†
m+p Xylene	9.51	2.0	µg/L	10.0		95.1	70-130	5.29	25	
o-Xylene	4.70	1.0	µg/L	5.00		94.0	70-130	1.07	25	
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.0	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		101	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- 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.
 - 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.
 - 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.

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
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	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



CON-test
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Rev 04.05.12
13605108

Page 1 of 1

Company Name: A CB&I Company
Shaw Environmental, Inc.

Telephone: 617-589-4030

Address: 150 Royall Street
Canton, MA 02021

Project # 130274
Client PO# 835493

Attention: Ed Vandoren

Project Location: Providence, RI

Sampled By: Daniel Leahy

Project Proposal Provided? (for billing purposes)
 yes no proposal date: _____

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Fax # _____

Email: Edward.Vandoren@CBI.com

Format: PDF EXCEL OGIS

EDD - OTHER GISKEY Format

Collection: "Enhanced Data Package"

Cor-Test Lab ID (Laboratory use only)

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Conc. Code

VOCs (EPA 8260B)

01 MW-112
02 MW-116D
03 MW-116S

12/11/09
12/11/09
12/11/09

12/11/09
12/11/09
12/11/09

GW G

3 3 3

Comments:

Please use the following codes to let Cor-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature) _____ Date/Time: 12/11/09

Received by (signature) _____ Date/Time: 12/11/09

Relinquished by (signature) _____ Date/Time: 12/11/09

Received by (signature) _____ Date/Time: 12/11/09

Received by (signature) _____ Date/Time: 12/11/09

Turnaround ^{††}

7-Day

10-Day

Other _____

124-Hr 148-Hr

172-Hr 14-Day

Require lab approval

Detection Limit Requirements

Massachusetts: _____

Connecticut: _____

Other: _____

Is your project MCP or RCP?

MCP Form Required

RCP Form Required

MA State DW Form Required PWSID # _____

NEIAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certified

# of Containers	3
** Preservation	H
*** Container Code	V
Dissoved Meta	
<input type="checkbox"/> Field Filtered	
<input type="checkbox"/> Lab to Filter	

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

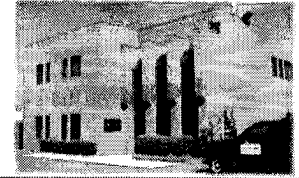
**Preservation
I=iced
H=HCL
M=Methanol
N=Nitric Acid
S=Sulfuric Acid
B=Sodium bisulfate
X=Na hydroxide
T=Na thiosulfate
O=Other

*Matrix Code:
GW=groundwater
WW=wastewater
DW=drinking water
A=air
S=soil/solid
Sl=sludge
O=other

† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



Sample Receipt Checklist

CLIENT NAME: Shaw RECEIVED BY: KOB DATE: 12-11-13

- 1) Was the chain(s) of custody relinquished and signed? **Yes** No No CoC Included
- 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°

- 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: 19
 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 No **N/A**

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

Laboratory Comments: _____

40 mL vials: # HCl 9 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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)		Comment
	T/F/NA		
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 requested 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		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013 Who notified of False statements?
 Log-In Technician Initials: KOB

Date/Time:
 Date/Time: 12-11-13
 1640

January 31, 2014

Edward Van Doren
Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: 130274 - Providence, RI - CO#501
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 14A0535

Enclosed are results of analyses for samples received by the laboratory on January 17, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 1/31/2014

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14A0535

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

PROJECT LOCATION: 130274 - Providence, RI - CO#501

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	14A0535-01	Ground Water		SW-846 8260C	
MW-116D	14A0535-02	Ground Water		SW-846 8260C	
MW-116S	14A0535-03	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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:**Methylene Chloride**B089081-BS1, B089081-BSD1

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:**trans-1,4-Dichloro-2-butene**14A0535-01[MW-112], 14A0535-02[MW-116D], 14A0535-03[MW-116S], B089081-BLK1, B089081-BS1, B089081-BSD1

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

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**B089081-BS1

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

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene, Naphthalene**14A0535-01[MW-112], 14A0535-02[MW-116D], 14A0535-03[MW-116S], B089081-BLK1, B089081-BS1, B089081-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:14A0535-01[MW-112]

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, Naphthalene, trans-1,4-Dichloro-2-butene**14A0535-01[MW-112], 14A0535-02[MW-116D], 14A0535-03[MW-116S], B089081-BLK1, B089081-BS1, B089081-BSD1

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, tert-Butyl Alcohol (TBA)**14A0535-01[MW-112], 14A0535-02[MW-116D], 14A0535-03[MW-116S], B089081-BLK1, B089081-BS1, B089081-BSD1

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

Analyte & Samples(s) Qualified:**Bromomethane, Chloromethane, Methylene Chloride**B089081-BS1, B089081-BSD1

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

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

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-112

Sampled: 1/14/2014 09:30

Sample ID: 14A0535-01

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	1200	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Acrylonitrile	ND	120	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Benzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Bromobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Bromochloromethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Bromodichloromethane	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Bromoform	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Bromomethane	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
2-Butanone (MEK)	ND	500	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
tert-Butyl Alcohol (TBA)	ND	500	µg/L	25	V-16	SW-846 8260C	1/21/14	1/22/14 3:17	EEH
n-Butylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
sec-Butylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
tert-Butylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Carbon Disulfide	ND	100	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Carbon Tetrachloride	ND	120	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Chlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Chlorodibromomethane	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Chloroethane	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Chloroform	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Chloromethane	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
2-Chlorotoluene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
4-Chlorotoluene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2-Dibromoethane (EDB)	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Dibromomethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,3-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,4-Dichlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
trans-1,4-Dichloro-2-butene	ND	50	µg/L	25	L-04, V-05	SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1-Dichloroethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2-Dichloroethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
cis-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
trans-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,3-Dichloropropane	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
2,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1-Dichloropropene	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
cis-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
trans-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Diethyl Ether	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-112

Sampled: 1/14/2014 09:30

Sample ID: 14A0535-01

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	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,4-Dioxane	ND	1200	µg/L	25	V-16	SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Ethylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Hexachlorobutadiene	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
2-Hexanone (MBK)	ND	250	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Isopropylbenzene (Cumene)	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Methylene Chloride	ND	120	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	250	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Naphthalene	ND	50	µg/L	25	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 3:17	EEH
n-Propylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Styrene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1,1,2-Tetrachloroethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1,2,2-Tetrachloroethane	ND	12	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Tetrachloroethylene	1800	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Tetrahydrofuran	ND	250	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Toluene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2,3-Trichlorobenzene	ND	120	µg/L	25	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2,4-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,3,5-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1,1-Trichloroethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1,2-Trichloroethane	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Trichloroethylene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Trichlorofluoromethane (Freon 11)	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2,3-Trichloropropane	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,2,4-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
1,3,5-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
Vinyl Chloride	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
m+p Xylene	ND	50	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH
o-Xylene	ND	25	µg/L	25		SW-846 8260C	1/21/14	1/22/14 3:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	87.2	70-130	1/22/14 3:17
Toluene-d8	104	70-130	1/22/14 3:17
4-Bromofluorobenzene	101	70-130	1/22/14 3:17

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-116D

Sampled: 1/14/2014 10:30

Sample ID: 14A0535-02

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	1/21/14	1/22/14 2:24	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	1/21/14	1/22/14 2:24	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-116D

Sampled: 1/14/2014 10:30

Sample ID: 14A0535-02

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	1/21/14	1/22/14 2:24	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Naphthalene	ND	2.0	µg/L	1	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 2:24	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.5	70-130	1/22/14 2:24
Toluene-d8	102	70-130	1/22/14 2:24
4-Bromofluorobenzene	98.2	70-130	1/22/14 2:24

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-116S

Sampled: 1/14/2014 12:00

Sample ID: 14A0535-03

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	1/21/14	1/22/14 2:50	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	1/21/14	1/22/14 2:50	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-04, V-05	SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14A0535

Date Received: 1/17/2014

Field Sample #: MW-116S

Sampled: 1/14/2014 12:00

Sample ID: 14A0535-03

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	1/21/14	1/22/14 2:50	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Naphthalene	ND	2.0	µg/L	1	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 2:50	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	R-05, V-05	SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/21/14	1/22/14 2:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.8	70-130	1/22/14 2:50
Toluene-d8	104	70-130	1/22/14 2:50
4-Bromofluorobenzene	99.5	70-130	1/22/14 2:50

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14A0535-01 [MW-112]	B089081	0.2	5.00	01/21/14
14A0535-02 [MW-116D]	B089081	5	5.00	01/21/14
14A0535-03 [MW-116S]	B089081	5	5.00	01/21/14

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B089081 - SW-846 5030B

Blank (B089081-BLK1)

Prepared: 01/21/14 Analyzed: 01/22/14

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							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							
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							L-04, V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	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 tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089081 - SW-846 5030B										
Blank (B089081-BLK1)										
Prepared: 01/21/14 Analyzed: 01/22/14										
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							R-05, 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							R-05, V-05
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	22.1		µg/L	25.0		88.3	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			
LCS (B089081-BS1)										
Prepared & Analyzed: 01/21/14										
Acetone	78.8	50	µg/L	100		78.8	70-160			†
Acrylonitrile	8.14	5.0	µg/L	10.0		81.4	70-130			
tert-Amyl Methyl Ether (TAME)	8.06	0.50	µg/L	10.0		80.6	70-130			
Benzene	9.54	1.0	µg/L	10.0		95.4	70-130			
Bromobenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Bromochloromethane	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130			
Bromoform	9.78	1.0	µg/L	10.0		97.8	70-130			
Bromomethane	9.33	2.0	µg/L	10.0		93.3	40-160			V-20 †
2-Butanone (MEK)	84.8	20	µg/L	100		84.8	40-160			†
tert-Butyl Alcohol (TBA)	79.8	20	µg/L	100		79.8	40-160			V-16 †
n-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
sec-Butylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
tert-Butylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.71	0.50	µg/L	10.0		87.1	70-130			
Carbon Disulfide	10.9	4.0	µg/L	10.0		109	70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130			
Chlorobenzene	9.94	1.0	µg/L	10.0		99.4	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	11.1	2.0	µg/L	10.0		111	70-130			
Chloroform	10.3	2.0	µg/L	10.0		103	70-130			
Chloromethane	9.02	2.0	µg/L	10.0		90.2	40-160			V-20 †
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B089081 - SW-846 5030B										
LCS (B089081-BS1)										
Prepared & Analyzed: 01/21/14										
4-Chlorotoluene	9.73	1.0	µg/L	10.0		97.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.10	5.0	µg/L	10.0		71.0	70-130			
1,2-Dibromoethane (EDB)	9.65	0.50	µg/L	10.0		96.5	70-130			
Dibromomethane	9.82	1.0	µg/L	10.0		98.2	70-130			
1,2-Dichlorobenzene	9.33	1.0	µg/L	10.0		93.3	70-130			
1,3-Dichlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
1,4-Dichlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130			
trans-1,4-Dichloro-2-butene	5.72	2.0	µg/L	10.0		57.2 *	70-130			L-04, V-05
Dichlorodifluoromethane (Freon 12)	4.75	2.0	µg/L	10.0		47.5	40-160			†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloroethane	9.45	1.0	µg/L	10.0		94.5	70-130			
1,1-Dichloroethylene	9.63	1.0	µg/L	10.0		96.3	70-130			
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
trans-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130			
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130			
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
2,2-Dichloropropane	9.13	1.0	µg/L	10.0		91.3	40-130			†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130			
cis-1,3-Dichloropropene	9.59	0.50	µg/L	10.0		95.9	70-130			
trans-1,3-Dichloropropene	9.94	0.50	µg/L	10.0		99.4	70-130			
Diethyl Ether	8.03	2.0	µg/L	10.0		80.3	70-130			
Diisopropyl Ether (DIPE)	9.96	0.50	µg/L	10.0		99.6	70-130			
1,4-Dioxane	54.4	50	µg/L	100		54.4	40-130			V-16 †
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Hexachlorobutadiene	9.41	0.50	µg/L	10.0		94.1	70-130			
2-Hexanone (MBK)	75.6	10	µg/L	100		75.6	70-160			†
Isopropylbenzene (Cumene)	9.89	1.0	µg/L	10.0		98.9	70-130			
p-Isopropyltoluene (p-Cymene)	9.63	1.0	µg/L	10.0		96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	8.77	1.0	µg/L	10.0		87.7	70-130			
Methylene Chloride	17.8	5.0	µg/L	10.0		178 *	70-130			L-02, V-20
4-Methyl-2-pentanone (MIBK)	81.9	10	µg/L	100		81.9	70-160			†
Naphthalene	5.58	2.0	µg/L	10.0		55.8	40-130			R-05, V-05 †
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	9.20	0.50	µg/L	10.0		92.0	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Tetrahydrofuran	9.19	10	µg/L	10.0		91.9	70-130			
Toluene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,2,3-Trichlorobenzene	5.67	5.0	µg/L	10.0		56.7 *	70-130			L-07A, R-05, V-05
1,2,4-Trichlorobenzene	7.29	1.0	µg/L	10.0		72.9	70-130			
1,3,5-Trichlorobenzene	8.33	1.0	µg/L	10.0		83.3	70-130			
1,1,1-Trichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130			
1,1,2-Trichloroethane	9.66	1.0	µg/L	10.0		96.6	70-130			
Trichloroethylene	9.66	1.0	µg/L	10.0		96.6	70-130			
Trichlorofluoromethane (Freon 11)	9.14	2.0	µg/L	10.0		91.4	70-130			
1,2,3-Trichloropropane	8.63	2.0	µg/L	10.0		86.3	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	1.0	µg/L	10.0		97.7	70-130			
1,2,4-Trimethylbenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
1,3,5-Trimethylbenzene	9.60	1.0	µg/L	10.0		96.0	70-130			
Vinyl Chloride	6.84	2.0	µg/L	10.0		68.4	40-160			†

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 B089081 - SW-846 5030B										
LCS (B089081-BS1)										
Prepared & Analyzed: 01/21/14										
m+p Xylene	19.3	2.0	µg/L	20.0		96.4	70-130			
o-Xylene	9.90	1.0	µg/L	10.0		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.4	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		98.0	70-130			
LCS Dup (B089081-BSD1)										
Prepared & Analyzed: 01/21/14										
Acetone	84.6	50	µg/L	100		84.6	70-160	7.20	25	†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130	22.2	25	
tert-Amyl Methyl Ether (TAME)	8.79	0.50	µg/L	10.0		87.9	70-130	8.66	25	
Benzene	9.79	1.0	µg/L	10.0		97.9	70-130	2.59	25	
Bromobenzene	9.53	1.0	µg/L	10.0		95.3	70-130	2.69	25	
Bromochloromethane	9.73	1.0	µg/L	10.0		97.3	70-130	0.717	25	
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130	1.16	25	
Bromoform	10.2	1.0	µg/L	10.0		102	70-130	4.50	25	
Bromomethane	10.0	2.0	µg/L	10.0		100	40-160	6.93	25	V-20 †
2-Butanone (MEK)	97.1	20	µg/L	100		97.1	40-160	13.6	25	†
tert-Butyl Alcohol (TBA)	102	20	µg/L	100		102	40-160	24.4	25	V-16 †
n-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	1.91	25	
sec-Butylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	1.52	25	
tert-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	4.67	25	
tert-Butyl Ethyl Ether (TBEE)	9.03	0.50	µg/L	10.0		90.3	70-130	3.61	25	
Carbon Disulfide	10.5	4.0	µg/L	10.0		105	70-130	4.20	25	
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130	2.23	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.29	25	
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130	2.80	25	
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130	6.03	25	
Chloroform	10.6	2.0	µg/L	10.0		106	70-130	3.26	25	
Chloromethane	8.36	2.0	µg/L	10.0		83.6	40-160	7.59	25	V-20 †
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	1.98	25	
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	4.72	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.68	5.0	µg/L	10.0		86.8	70-130	20.0	25	
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	3.86	25	
Dibromomethane	10.0	1.0	µg/L	10.0		100	70-130	2.22	25	
1,2-Dichlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130	1.70	25	
1,3-Dichlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130	0.517	25	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.60	25	
trans-1,4-Dichloro-2-butene	6.19	2.0	µg/L	10.0		61.9 *	70-130	7.89	25	L-04, V-05
Dichlorodifluoromethane (Freon 12)	4.93	2.0	µg/L	10.0		49.3	40-160	3.72	25	†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130	1.54	25	
1,2-Dichloroethane	9.95	1.0	µg/L	10.0		99.5	70-130	5.15	25	
1,1-Dichloroethylene	9.68	1.0	µg/L	10.0		96.8	70-130	0.518	25	
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.876	25	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	1.70	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	1.38	25	
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130	6.66	25	
2,2-Dichloropropane	9.33	1.0	µg/L	10.0		93.3	40-130	2.17	25	†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130	4.51	25	
cis-1,3-Dichloropropene	9.88	0.50	µg/L	10.0		98.8	70-130	2.98	25	
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130	7.08	25	
Diethyl Ether	8.14	2.0	µg/L	10.0		81.4	70-130	1.36	25	
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.0		101	70-130	1.79	25	

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 B089081 - SW-846 5030B										
LCS Dup (B089081-BSD1)										
					Prepared & Analyzed: 01/21/14					
1,4-Dioxane	84.6	50	µg/L	100		84.6	40-130	43.5	50	V-16 † ‡
Ethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	2.57	25	
Hexachlorobutadiene	10.2	0.50	µg/L	10.0		102	70-130	7.76	25	
2-Hexanone (MBK)	92.2	10	µg/L	100		92.2	70-160	19.7	25	†
Isopropylbenzene (Cumene)	9.96	1.0	µg/L	10.0		99.6	70-130	0.705	25	
p-Isopropyltoluene (p-Cymene)	9.95	1.0	µg/L	10.0		99.5	70-130	3.27	25	
Methyl tert-Butyl Ether (MTBE)	9.53	1.0	µg/L	10.0		95.3	70-130	8.31	25	
Methylene Chloride	17.5	5.0	µg/L	10.0		175 *	70-130	1.75	25	L-02, V-20
4-Methyl-2-pentanone (MIBK)	95.2	10	µg/L	100		95.2	70-160	15.0	25	†
Naphthalene	7.85	2.0	µg/L	10.0		78.5	40-130	33.8 *	25	R-05, V-05 †
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	2.43	25	
Styrene	10.3	1.0	µg/L	10.0		103	70-130	1.56	25	
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.283	25	
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130	12.1	25	
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.294	25	
Tetrahydrofuran	9.97	10	µg/L	10.0		99.7	70-130	8.14	25	
Toluene	9.86	1.0	µg/L	10.0		98.6	70-130	1.22	25	
1,2,3-Trichlorobenzene	7.98	5.0	µg/L	10.0		79.8	70-130	33.8 *	25	R-05, V-05
1,2,4-Trichlorobenzene	8.62	1.0	µg/L	10.0		86.2	70-130	16.7	25	
1,3,5-Trichlorobenzene	8.90	1.0	µg/L	10.0		89.0	70-130	6.62	25	
1,1,1-Trichloroethane	9.94	1.0	µg/L	10.0		99.4	70-130	1.01	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	6.70	25	
Trichloroethylene	9.81	1.0	µg/L	10.0		98.1	70-130	1.54	25	
Trichlorofluoromethane (Freon 11)	9.11	2.0	µg/L	10.0		91.1	70-130	0.329	25	
1,2,3-Trichloropropane	9.85	2.0	µg/L	10.0		98.5	70-130	13.2	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.74	1.0	µg/L	10.0		97.4	70-130	0.308	25	
1,2,4-Trimethylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130	1.13	25	
1,3,5-Trimethylbenzene	9.93	1.0	µg/L	10.0		99.3	70-130	3.38	25	
Vinyl Chloride	6.56	2.0	µg/L	10.0		65.6	40-160	4.18	25	†
m+p Xylene	20.0	2.0	µg/L	20.0		99.8	70-130	3.42	25	
o-Xylene	9.87	1.0	µg/L	10.0		98.7	70-130	0.303	25	
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0		91.7	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- 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-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-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.

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

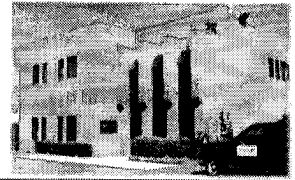
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
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	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

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



Sample Receipt Checklist

CLIENT NAME: Shaw RECEIVED BY: KOB DATE: 1-17-14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 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 6.0°C

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: R
 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 No N/A

Containers received at Con-Test

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

Laboratory Comments: _____

40 mL vials: # HCl <u>9</u> # Methanol _____	Time and Date Frozen:
Doc# 277 # Bisulfate _____ # DI Water _____	
Rev. 4 August 2013 # 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)		Comment
	T/F/NA		
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 requested 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.	NA		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?Log-In Technician Initials: *ICWJ***Date/Time:**Date/Time: *1-17-14 1425*

February 28, 2014

Edward Van Doren
Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 14B0423

Enclosed are results of analyses for samples received by the laboratory on February 17, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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

Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 2/28/2014

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14B0423

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

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW 207S	14B0423-01	Ground Water		SW-846 8260C	
MW 207D	14B0423-02	Ground Water		SW-846 8260C	
MW 202D	14B0423-03	Ground Water		SW-846 8260C	
MW 202S	14B0423-04	Ground Water		SW-846 8260C	
MW 101D	14B0423-05	Ground Water		SW-846 8260C	
MW 101S	14B0423-06	Ground Water		SW-846 8260C	
MW 216S	14B0423-07	Ground Water		SW-846 8260C	
MW 216D	14B0423-08	Ground Water		SW-846 8260C	
MW 217S	14B0423-09	Ground Water		SW-846 8260C	
MW 217D	14B0423-10	Ground Water		SW-846 8260C	
MW 101S Dup	14B0423-11	Ground Water		SW-846 8260C	
Trip Blank	14B0423-12	Trip Blank Water		SW-846 8260C	
CW-1	14B0423-13	Ground Water		SW-846 8260C	
CW-2	14B0423-14	Ground Water		SW-846 8260C	
MW 209D	14B0423-15	Ground Water		SW-846 8260C	
MW 112	14B0423-16	Ground Water		SW-846 8260C	
MW 218D	14B0423-17	Ground Water		SW-846 8260C	
MW 218S	14B0423-18	Ground Water		SW-846 8260C	
CW-6	14B0423-19	Ground Water		SW-846 8015C	
CW-6 Dup	14B0423-20	Ground Water		SW-846 8015C	
MW 116D	14B0423-21	Ground Water		SW-846 8260C	
MW 116S	14B0423-22	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8015C**Qualifications:**

Sample contamination does not match any reference standard. Majority of contamination falls within C12-C32 of the hydrocarbon range.

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

14B0423-19[CW-6], 14B0423-20[CW-6 Dup]

SW-846 8260C**Qualifications:**

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

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

B090519-BS1, B090519-BSD1, B090518-BS1, B090518-BSD1, B090570-BS1, B090570-BSD1

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

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP), Bromoform**

14B0423-08[MW 216D], 14B0423-09[MW 217S], 14B0423-10[MW 217D], 14B0423-11[MW 101S Dup], 14B0423-12[Trip Blank], 14B0423-13[CW-1], 14B0423-14[CW-2], 14B0423-15[MW 209D], 14B0423-16[MW 112], 14B0423-17[MW 218D], 14B0423-18[MW 218S], 14B0423-21[MW 116D], 14B0423-22[MW 116S], B090519-BLK1, B090519-BS1, B090519-BSD1

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:**Chloroethane**

B090518-BS1

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

Analyte & Samples(s) Qualified:**2-Butanone (MEK), 2-Hexanone (MBK), tert-Butyl Alcohol (TBA), Tetrachloroethylene**

14B0423-02[MW 207D], 14B0423-03[MW 202D], 14B0423-04[MW 202S], 14B0423-06[MW 101S], 14B0423-07[MW 216S], B090518-BLK1, B090518-BS1, B090518-BSD1, 14B0423-01[MW 207S], 14B0423-05[MW 101D], B090570-BLK1, B090570-BS1, B090570-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

14B0423-01[MW 207S], 14B0423-02[MW 207D], 14B0423-03[MW 202D], 14B0423-04[MW 202S], 14B0423-05[MW 101D], 14B0423-06[MW 101S], 14B0423-11[MW 101S Dup], 14B0423-13[CW-1], 14B0423-15[MW 209D], 14B0423-16[MW 112], 14B0423-17[MW 218D]

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-Dibromo-3-chloropropane (DBCP), Bromoform, Dichlorodifluoromethane (Freon 12), Naphthalene, tert-Butyl Alcohol (TBA), trans-1,4-Dichloro-2-butene**

14B0423-08[MW 216D], 14B0423-09[MW 217S], 14B0423-10[MW 217D], 14B0423-11[MW 101S Dup], 14B0423-12[Trip Blank], 14B0423-13[CW-1], 14B0423-14[CW-2], 14B0423-15[MW 209D], 14B0423-16[MW 112], 14B0423-17[MW 218D], 14B0423-18[MW 218S], 14B0423-21[MW 116D], 14B0423-22[MW 116S], B090519-BLK1, B090519-BS1, B090519-BSD1, 14B0423-01[MW 207S], 14B0423-05[MW 101D], B090570-BLK1, B090570-BS1, B090570-BSD1, 14B0423-02[MW 207D], 14B0423-03[MW 202D], 14B0423-04[MW 202S], 14B0423-06[MW 101S], 14B0423-07[MW 216S], B090518-BLK1, B090518-BS1, B090518-BSD1

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, tert-Butyl Alcohol (TBA)

14B0423-01[MW 207S], 14B0423-02[MW 207D], 14B0423-03[MW 202D], 14B0423-04[MW 202S], 14B0423-05[MW 101D], 14B0423-06[MW 101S], 14B0423-07[MW 216S], 14B0423-08[MW 216D], 14B0423-09[MW 217S], 14B0423-10[MW 217D], 14B0423-11[MW 101S Dup], 14B0423-12[Trip Blank], 14B0423-13[CW-1], 14B0423-14[CW-2], 14B0423-15[MW 209D], 14B0423-16[MW 112], 14B0423-17[MW 218D], 14B0423-18[MW 218S], 14B0423-21[MW 116D], 14B0423-22[MW 116S], B090518-BLK1, B090518-BS1, B090518-BSD1, B090519-BLK1, B090519-BS1, B090519-BSD1, B090570-BLK1, B090570-BS1, B090570-BSD1

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, Bromomethane, Chloromethane, Methylene Chloride

B090519-BS1, B090519-BSD1, B090518-BS1, B090518-BSD1, B090570-BS1, B090570-BSD1

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

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



Michael A. Erickson
Laboratory Director

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 207S

Sampled: 2/14/2014 07:00

Sample ID: 14B0423-01

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	200	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Acrylonitrile	ND	20	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Bromoform	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Bromomethane	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4	V-16	SW-846 8260C	2/19/14	2/19/14 12:33	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Carbon Disulfide	ND	16	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Chlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Chloromethane	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
2-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
4-Chlorotoluene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4	V-05	SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4	V-05	SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
cis-1,2-Dichloroethylene	16	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 207S

Sampled: 2/14/2014 07:00

Sample ID: 14B0423-01

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	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,4-Dioxane	ND	200	µg/L	4	V-16	SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Hexachlorobutadiene	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
2-Hexanone (MBK)	ND	40	µg/L	4	R-05	SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Naphthalene	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Tetrachloroethylene	250	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Toluene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Trichloroethylene	7.0	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH
o-Xylene	ND	4.0	µg/L	4		SW-846 8260C	2/19/14	2/19/14 12:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.2	70-130	2/19/14 12:33
Toluene-d8	92.3	70-130	2/19/14 12:33
4-Bromofluorobenzene	104	70-130	2/19/14 12:33

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 207D

Sampled: 2/14/2014 07:30

Sample ID: 14B0423-02

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	2/18/14	2/18/14 20:46	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
2-Butanone (MEK)	ND	40	µg/L	2	R-05	SW-846 8260C	2/18/14	2/18/14 20:46	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	R-05, V-16	SW-846 8260C	2/18/14	2/18/14 20:46	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2	V-05	SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
cis-1,2-Dichloroethylene	110	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 207D

Sampled: 2/14/2014 07:30

Sample ID: 14B0423-02

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	2/18/14	2/18/14 20:46	EEH
1,4-Dioxane	ND	100	µg/L	2	V-16	SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Hexachlorobutadiene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Tetrachloroethylene	83	2.0	µg/L	2	R-05	SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Trichloroethylene	9.8	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 20:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	91.6	70-130	2/18/14 20:46
Toluene-d8	126	70-130	2/18/14 20:46
4-Bromofluorobenzene	91.2	70-130	2/18/14 20:46

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 202D

Sampled: 2/14/2014 08:00

Sample ID: 14B0423-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Benzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Bromoform	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Bromomethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
2-Butanone (MEK)	ND	400	µg/L	20	R-05	SW-846 8260C	2/18/14	2/18/14 21:13	EEH
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	R-05, V-16	SW-846 8260C	2/18/14	2/18/14 21:13	EEH
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Chloroethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Chloroform	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Chloromethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20	V-05	SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 202D

Sampled: 2/14/2014 08:00

Sample ID: 14B0423-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,4-Dioxane	ND	1000	µg/L	20	V-16	SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Hexachlorobutadiene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Naphthalene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Styrene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Tetrachloroethylene	2900	20	µg/L	20	R-05	SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Toluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Trichloroethylene	32	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH
o-Xylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 21:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	91.5	70-130	2/18/14 21:13
Toluene-d8	102	70-130	2/18/14 21:13
4-Bromofluorobenzene	93.0	70-130	2/18/14 21:13

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 202S

Sampled: 2/14/2014 08:30

Sample ID: 14B0423-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
2-Butanone (MEK)	ND	200	µg/L	10	R-05	SW-846 8260C	2/18/14	2/18/14 21:40	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	R-05, V-16	SW-846 8260C	2/18/14	2/18/14 21:40	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10	V-05	SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
cis-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 202S

Sampled: 2/14/2014 08:30

Sample ID: 14B0423-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Styrene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Tetrachloroethylene	1200	10	µg/L	10	R-05	SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Trichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 21:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.0	70-130	2/18/14 21:40
Toluene-d8	101	70-130	2/18/14 21:40
4-Bromofluorobenzene	99.6	70-130	2/18/14 21:40

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101D

Sampled: 2/14/2014 09:30

Sample ID: 14B0423-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-16	SW-846 8260C	2/19/14	2/19/14 13:26	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Chloromethane	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10	V-05	SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10	V-05	SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
cis-1,2-Dichloroethylene	78	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101D

Sampled: 2/14/2014 09:30

Sample ID: 14B0423-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
2-Hexanone (MBK)	ND	100	µg/L	10	R-05	SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Styrene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Tetrachloroethylene	660	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Trichloroethylene	18	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	2/19/14	2/19/14 13:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.2	70-130	2/19/14 13:26
Toluene-d8	110	70-130	2/19/14 13:26
4-Bromofluorobenzene	84.6	70-130	2/19/14 13:26

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101S

Sampled: 2/14/2014 10:00

Sample ID: 14B0423-06

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	1000	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Benzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Bromoform	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Bromomethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
2-Butanone (MEK)	ND	400	µg/L	20	R-05	SW-846 8260C	2/18/14	2/18/14 22:07	EEH
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	R-05, V-16	SW-846 8260C	2/18/14	2/18/14 22:07	EEH
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Chloroethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Chloroform	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Chloromethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20	V-05	SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101S

Sampled: 2/14/2014 10:00

Sample ID: 14B0423-06

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	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,4-Dioxane	ND	1000	µg/L	20	V-16	SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Hexachlorobutadiene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Naphthalene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Styrene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Tetrachloroethylene	1700	20	µg/L	20	R-05	SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Toluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Trichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH
o-Xylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 22:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.6	70-130	2/18/14 22:07
Toluene-d8	102	70-130	2/18/14 22:07
4-Bromofluorobenzene	99.1	70-130	2/18/14 22:07

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 216S

Sampled: 2/14/2014 11:00

Sample ID: 14B0423-07

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	2/18/14	2/18/14 18:33	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
2-Butanone (MEK)	ND	20	µg/L	1	R-05	SW-846 8260C	2/18/14	2/18/14 18:33	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05, V-16	SW-846 8260C	2/18/14	2/18/14 18:33	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1-Dichloroethane	1.1	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
cis-1,2-Dichloroethylene	120	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 216S

Sampled: 2/14/2014 11:00

Sample ID: 14B0423-07

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	2/18/14	2/18/14 18:33	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Ethylbenzene	3.0	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
p-Isopropyltoluene (p-Cymene)	1.4	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Naphthalene	24	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Tetrachloroethylene	ND	1.0	µg/L	1	R-05	SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Toluene	2.1	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,2,4-Trimethylbenzene	12	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
1,3,5-Trimethylbenzene	7.7	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
m+p Xylene	6.4	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH
o-Xylene	8.8	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	84.0	70-130	2/18/14 18:33
Toluene-d8	98.3	70-130	2/18/14 18:33
4-Bromofluorobenzene	90.9	70-130	2/18/14 18:33

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 216D

Sampled: 2/14/2014 11:30

Sample ID: 14B0423-08

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	2/18/14	2/18/14 16:39	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 16:39	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 216D

Sampled: 2/14/2014 11:30

Sample ID: 14B0423-08

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	2/18/14	2/18/14 16:39	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 16:39	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Trichloroethylene	2.8	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 16:39	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.0	70-130	2/18/14 16:39
Toluene-d8	102	70-130	2/18/14 16:39
4-Bromofluorobenzene	100	70-130	2/18/14 16:39

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 217S

Sampled: 2/14/2014 12:30

Sample ID: 14B0423-09

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	2/18/14	2/18/14 22:19	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 22:19	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
cis-1,2-Dichloroethylene	4.6	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 217S

Sampled: 2/14/2014 12:30

Sample ID: 14B0423-09

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	2/18/14	2/18/14 22:19	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Naphthalene	2.6	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 22:19	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Tetrachloroethylene	2.4	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
Vinyl Chloride	3.9	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 22:19	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.0	70-130	2/18/14 22:19
Toluene-d8	103	70-130	2/18/14 22:19
4-Bromofluorobenzene	99.5	70-130	2/18/14 22:19

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 217D

Sampled: 2/14/2014 13:00

Sample ID: 14B0423-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 17:10	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
cis-1,2-Dichloroethylene	54	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 217D

Sampled: 2/14/2014 13:00

Sample ID: 14B0423-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Naphthalene	2.4	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 17:10	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Trichloroethylene	9.0	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:10	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.8	70-130	2/18/14 17:10
Toluene-d8	103	70-130	2/18/14 17:10
4-Bromofluorobenzene	99.0	70-130	2/18/14 17:10

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101S Dup

Sampled: 2/14/2014 10:00

Sample ID: 14B0423-11

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	1000	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Bromoform	ND	20	µg/L	20	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Bromomethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	V-05	SW-846 8260C	2/18/14	2/18/14 19:45	LBD
n-Butylbenzene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Chloromethane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 101S Dup

Sampled: 2/14/2014 10:00

Sample ID: 14B0423-11

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	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,4-Dioxane	ND	1000	µg/L	20	V-16	SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Hexachlorobutadiene	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Naphthalene	ND	40	µg/L	20	V-05	SW-846 8260C	2/18/14	2/18/14 19:45	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Tetrachloroethylene	1800	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Trichloroethylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C	2/18/14	2/18/14 19:45	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.8	70-130	2/18/14 19:45
Toluene-d8	103	70-130	2/18/14 19:45
4-Bromofluorobenzene	98.7	70-130	2/18/14 19:45

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: Trip Blank

Sampled: 2/14/2014 00:00

Sample ID: 14B0423-12

Sample Matrix: Trip Blank 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	2/18/14	2/18/14 13:34	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 13:34	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: Trip Blank

Sampled: 2/14/2014 00:00

Sample ID: 14B0423-12

Sample Matrix: Trip Blank 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	2/18/14	2/18/14 13:34	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 13:34	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 13:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.2	70-130	2/18/14 13:34
Toluene-d8	103	70-130	2/18/14 13:34
4-Bromofluorobenzene	98.9	70-130	2/18/14 13:34

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: CW-1

Sampled: 2/14/2014 14:30

Sample ID: 14B0423-13

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	2500	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Benzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Bromobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Bromoform	ND	50	µg/L	50	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Bromomethane	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50	V-05	SW-846 8260C	2/18/14	2/18/14 20:16	LBD
n-Butylbenzene	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Carbon Disulfide	ND	200	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Chlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Chloroethane	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Chloroform	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Chloromethane	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
2-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
4-Chlorotoluene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1-Dichloroethylene	94	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
cis-1,2-Dichloroethylene	230	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: CW-1

Sampled: 2/14/2014 14:30

Sample ID: 14B0423-13

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	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,4-Dioxane	ND	2500	µg/L	50	V-16	SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Ethylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Hexachlorobutadiene	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Naphthalene	ND	100	µg/L	50	V-05	SW-846 8260C	2/18/14	2/18/14 20:16	LBD
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Styrene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Tetrachloroethylene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Toluene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Trichloroethylene	5000	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
m+p Xylene	ND	100	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD
o-Xylene	ND	50	µg/L	50		SW-846 8260C	2/18/14	2/18/14 20:16	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.2	70-130	2/18/14 20:16
Toluene-d8	103	70-130	2/18/14 20:16
4-Bromofluorobenzene	99.6	70-130	2/18/14 20:16

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: CW-2

Sampled: 2/14/2014 14:00

Sample ID: 14B0423-14

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	2/18/14	2/18/14 17:41	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Bromoform	ND	1.0	µg/L	1	V-05, L-04	SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 17:41	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: CW-2

Sampled: 2/14/2014 14:00

Sample ID: 14B0423-14

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	2/18/14	2/18/14 17:41	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 17:41	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 17:41	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.1	70-130	2/18/14 17:41
Toluene-d8	102	70-130	2/18/14 17:41
4-Bromofluorobenzene	99.4	70-130	2/18/14 17:41

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 209D

Sampled: 2/15/2014 07:00

Sample ID: 14B0423-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Benzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Bromoform	ND	10	µg/L	10	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Bromomethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-05	SW-846 8260C	2/18/14	2/18/14 20:47	LBD
n-Butylbenzene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Chloroethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Chloroform	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Chloromethane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
cis-1,2-Dichloroethylene	11	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 209D

Sampled: 2/15/2014 07:00

Sample ID: 14B0423-15

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Naphthalene	ND	20	µg/L	10	V-05	SW-846 8260C	2/18/14	2/18/14 20:47	LBD
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Styrene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Tetrachloroethylene	600	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Toluene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Trichloroethylene	190	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD
o-Xylene	ND	10	µg/L	10		SW-846 8260C	2/18/14	2/18/14 20:47	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.8	70-130	2/18/14 20:47
Toluene-d8	103	70-130	2/18/14 20:47
4-Bromofluorobenzene	98.8	70-130	2/18/14 20:47

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 112

Sampled: 2/15/2014 08:00

Sample ID: 14B0423-16

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Bromodichloromethane	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Bromoform	ND	100	µg/L	100	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Bromomethane	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100	V-05	SW-846 8260C	2/18/14	2/18/14 21:18	LBD
n-Butylbenzene	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Chloromethane	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
cis-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 112

Sampled: 2/15/2014 08:00

Sample ID: 14B0423-16

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,4-Dioxane	ND	5000	µg/L	100	V-16	SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Hexachlorobutadiene	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Naphthalene	ND	200	µg/L	100	V-05	SW-846 8260C	2/18/14	2/18/14 21:18	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1,1,2-Tetrachloroethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Tetrachloroethylene	3200	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Trichloroethylene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C	2/18/14	2/18/14 21:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.7	70-130	2/18/14 21:18
Toluene-d8	103	70-130	2/18/14 21:18
4-Bromofluorobenzene	99.3	70-130	2/18/14 21:18

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 218D

Sampled: 2/15/2014 09:00

Sample ID: 14B0423-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Bromodichloromethane	1.1	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Bromoform	ND	2.0	µg/L	2	V-05, L-04	SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-05	SW-846 8260C	2/18/14	2/18/14 21:49	LBD
n-Butylbenzene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Chloroform	25	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
cis-1,2-Dichloroethylene	3.2	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 218D

Sampled: 2/15/2014 09:00

Sample ID: 14B0423-17

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,4-Dioxane	ND	100	µg/L	2	V-16	SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Hexachlorobutadiene	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Naphthalene	ND	4.0	µg/L	2	V-05	SW-846 8260C	2/18/14	2/18/14 21:49	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Tetrachloroethylene	370	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Trichloroethylene	19	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	2/18/14	2/18/14 21:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.4	70-130	2/18/14 21:49
Toluene-d8	103	70-130	2/18/14 21:49
4-Bromofluorobenzene	99.2	70-130	2/18/14 21:49

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 218S

Sampled: 2/15/2014 09:30

Sample ID: 14B0423-18

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	2/18/14	2/18/14 18:12	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 18:12	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 218S

Sampled: 2/15/2014 09:30

Sample ID: 14B0423-18

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	2/18/14	2/18/14 18:12	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 18:12	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Tetrachloroethylene	2.7	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:12	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.2	70-130	2/18/14 18:12
Toluene-d8	103	70-130	2/18/14 18:12
4-Bromofluorobenzene	99.2	70-130	2/18/14 18:12

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Sampled: 2/15/2014 10:30

Field Sample #: CW-6

Sample ID: 14B0423-19

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	5.2	0.20	mg/L	1	Z-01	SW-846 8015C	2/20/14	2/21/14 12:28	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	103		40-140				2/21/14 12:28		

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: CW-6 Dup

Sampled: 2/15/2014 10:30

Sample ID: 14B0423-20

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	5.5	0.20	mg/L	1	Z-01	SW-846 8015C	2/20/14	2/21/14 12:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl		108		40-140				2/21/14 12:46	

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 116D

Sampled: 2/15/2014 11:30

Sample ID: 14B0423-21

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	2/18/14	2/18/14 18:43	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 18:43	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 116D

Sampled: 2/15/2014 11:30

Sample ID: 14B0423-21

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	2/18/14	2/18/14 18:43	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 18:43	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 18:43	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.9	70-130	2/18/14 18:43
Toluene-d8	102	70-130	2/18/14 18:43
4-Bromofluorobenzene	101	70-130	2/18/14 18:43

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 116S

Sampled: 2/15/2014 12:00

Sample ID: 14B0423-22

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	2/18/14	2/18/14 19:14	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Bromoform	ND	1.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 19:14	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD

Project Location: Providence, RI

Sample Description:

Work Order: 14B0423

Date Received: 2/17/2014

Field Sample #: MW 116S

Sampled: 2/15/2014 12:00

Sample ID: 14B0423-22

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	2/18/14	2/18/14 19:14	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/18/14	2/18/14 19:14	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/18/14	2/18/14 19:14	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.7	70-130	2/18/14 19:14
Toluene-d8	103	70-130	2/18/14 19:14
4-Bromofluorobenzene	99.7	70-130	2/18/14 19:14

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0423-19 [CW-6]	B090652	1000	1.00	02/20/14
14B0423-20 [CW-6 Dup]	B090652	1000	1.00	02/20/14

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0423-02 [MW 207D]	B090518	2.5	5.00	02/18/14
14B0423-03 [MW 202D]	B090518	0.25	5.00	02/18/14
14B0423-04 [MW 202S]	B090518	0.5	5.00	02/18/14
14B0423-06 [MW 101S]	B090518	0.25	5.00	02/18/14
14B0423-07 [MW 216S]	B090518	5	5.00	02/18/14

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0423-08 [MW 216D]	B090519	5	5.00	02/18/14
14B0423-09 [MW 217S]	B090519	5	5.00	02/18/14
14B0423-10 [MW 217D]	B090519	5	5.00	02/18/14
14B0423-11 [MW 101S Dup]	B090519	0.25	5.00	02/18/14
14B0423-12 [Trip Blank]	B090519	5	5.00	02/18/14
14B0423-13 [CW-1]	B090519	0.1	5.00	02/18/14
14B0423-14 [CW-2]	B090519	5	5.00	02/18/14
14B0423-15 [MW 209D]	B090519	0.5	5.00	02/18/14
14B0423-16 [MW 112]	B090519	0.05	5.00	02/18/14
14B0423-17 [MW 218D]	B090519	2.5	5.00	02/18/14
14B0423-18 [MW 218S]	B090519	5	5.00	02/18/14
14B0423-21 [MW 116D]	B090519	5	5.00	02/18/14
14B0423-22 [MW 116S]	B090519	5	5.00	02/18/14

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14B0423-01 [MW 207S]	B090570	1.25	5.00	02/19/14
14B0423-05 [MW 101D]	B090570	0.5	5.00	02/19/14

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090518 - SW-846 5030B

Blank (B090518-BLK1)

Prepared & Analyzed: 02/18/14

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							R-05
tert-Butyl Alcohol (TBA)	ND	20	µg/L							R-05, 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							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
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	0.50	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 tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090518 - SW-846 5030B										
Blank (B090518-BLK1)										
Prepared & Analyzed: 02/18/14										
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							R-05
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	22.2		µg/L	25.0		89.0	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.8	70-130			
LCS (B090518-BS1)										
Prepared & Analyzed: 02/18/14										
Acetone	102	50	µg/L	100		102	70-160			†
Acrylonitrile	10.7	5.0	µg/L	10.0		107	70-130			
tert-Amyl Methyl Ether (TAME)	8.10	0.50	µg/L	10.0		81.0	70-130			
Benzene	8.54	1.0	µg/L	10.0		85.4	70-130			
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromochloromethane	9.40	1.0	µg/L	10.0		94.0	70-130			
Bromodichloromethane	11.0	0.50	µg/L	10.0		110	70-130			
Bromoform	10.8	1.0	µg/L	10.0		108	70-130			
Bromomethane	12.7	2.0	µg/L	10.0		127	40-160			V-20 †
2-Butanone (MEK)	90.4	20	µg/L	100		90.4	40-160			R-05 †
tert-Butyl Alcohol (TBA)	105	20	µg/L	100		105	40-160			R-05, V-16 †
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.24	0.50	µg/L	10.0		92.4	70-130			
Carbon Disulfide	11.2	4.0	µg/L	10.0		112	70-130			
Carbon Tetrachloride	9.31	5.0	µg/L	10.0		93.1	70-130			
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Chlorodibromomethane	12.6	0.50	µg/L	10.0		126	70-130			
Chloroethane	13.2	2.0	µg/L	10.0		132 *	70-130			L-07
Chloroform	9.24	2.0	µg/L	10.0		92.4	70-130			
Chloromethane	12.9	2.0	µg/L	10.0		129	40-160			V-20 †
2-Chlorotoluene	9.71	1.0	µg/L	10.0		97.1	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090518 - SW-846 5030B										
LCS (B090518-BS1)										
Prepared & Analyzed: 02/18/14										
4-Chlorotoluene	9.53	1.0	µg/L	10.0		95.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.43	5.0	µg/L	10.0		84.3	70-130			
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.0		117	70-130			
Dibromomethane	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130			
1,3-Dichlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,4-Dichlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130			
trans-1,4-Dichloro-2-butene	8.38	2.0	µg/L	10.0		83.8	70-130			V-05
Dichlorodifluoromethane (Freon 12)	5.86	2.0	µg/L	10.0		58.6	40-160			†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
cis-1,2-Dichloroethylene	9.35	1.0	µg/L	10.0		93.5	70-130			
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	9.49	1.0	µg/L	10.0		94.9	40-130			†
1,1-Dichloropropene	8.96	2.0	µg/L	10.0		89.6	70-130			
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
Diethyl Ether	10.3	2.0	µg/L	10.0		103	70-130			
Diisopropyl Ether (DIPE)	9.66	0.50	µg/L	10.0		96.6	70-130			
1,4-Dioxane	105	50	µg/L	100		105	40-130			V-16 †
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Hexachlorobutadiene	8.99	0.50	µg/L	10.0		89.9	70-130			
2-Hexanone (MBK)	105	10	µg/L	100		105	70-160			†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.0		107	70-130			
p-Isopropyltoluene (p-Cymene)	9.86	1.0	µg/L	10.0		98.6	70-130			
Methyl tert-Butyl Ether (MTBE)	9.40	1.0	µg/L	10.0		94.0	70-130			
Methylene Chloride	16.1	5.0	µg/L	10.0		161 *	70-130			L-02, V-20
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100		112	70-160			†
Naphthalene	7.50	2.0	µg/L	10.0		75.0	40-130			†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Tetrachloroethylene	12.7	1.0	µg/L	10.0		127	70-130			R-05
Tetrahydrofuran	11.5	10	µg/L	10.0		115	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	7.89	5.0	µg/L	10.0		78.9	70-130			
1,2,4-Trichlorobenzene	8.03	1.0	µg/L	10.0		80.3	70-130			
1,3,5-Trichlorobenzene	7.80	1.0	µg/L	10.0		78.0	70-130			
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
Trichloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
Trichlorofluoromethane (Freon 11)	11.5	2.0	µg/L	10.0		115	70-130			
1,2,3-Trichloropropane	9.86	2.0	µg/L	10.0		98.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130			
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Vinyl Chloride	8.74	2.0	µg/L	10.0		87.4	40-160			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090518 - SW-846 5030B

LCS (B090518-BS1)

Prepared & Analyzed: 02/18/14

m+p Xylene	20.3	2.0	µg/L	20.0		101	70-130			
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	21.7		µg/L	25.0		86.9	70-130			
Surrogate: Toluene-d8	27.9		µg/L	25.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	26.5		µg/L	25.0		106	70-130			

LCS Dup (B090518-BS1)

Prepared & Analyzed: 02/18/14

Acetone	114	50	µg/L	100		114	70-160	11.9	25	†
Acrylonitrile	11.9	5.0	µg/L	10.0		119	70-130	10.1	25	
tert-Amyl Methyl Ether (TAME)	9.10	0.50	µg/L	10.0		91.0	70-130	11.6	25	
Benzene	9.16	1.0	µg/L	10.0		91.6	70-130	7.01	25	
Bromobenzene	8.78	1.0	µg/L	10.0		87.8	70-130	13.7	25	
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130	7.77	25	
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130	9.12	25	
Bromoform	11.0	1.0	µg/L	10.0		110	70-130	1.01	25	
Bromomethane	13.9	2.0	µg/L	10.0		139	40-160	9.00	25	V-20 †
2-Butanone (MEK)	118	20	µg/L	100		118	40-160	26.3 *	25	R-05 †
tert-Butyl Alcohol (TBA)	146	20	µg/L	100		146	40-160	33.1 *	25	R-05, V-16 †
n-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	7.69	25	
sec-Butylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130	5.98	25	
tert-Butylbenzene	9.58	1.0	µg/L	10.0		95.8	70-130	5.19	25	
tert-Butyl Ethyl Ether (TBEE)	9.21	0.50	µg/L	10.0		92.1	70-130	0.325	25	
Carbon Disulfide	10.9	4.0	µg/L	10.0		109	70-130	2.44	25	
Carbon Tetrachloride	10.5	5.0	µg/L	10.0		105	70-130	11.9	25	
Chlorobenzene	9.51	1.0	µg/L	10.0		95.1	70-130	6.90	25	
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130	15.5	25	
Chloroethane	12.9	2.0	µg/L	10.0		129	70-130	2.14	25	
Chloroform	9.43	2.0	µg/L	10.0		94.3	70-130	2.04	25	
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160	10.4	25	V-20 †
2-Chlorotoluene	8.74	1.0	µg/L	10.0		87.4	70-130	10.5	25	
4-Chlorotoluene	8.86	1.0	µg/L	10.0		88.6	70-130	7.29	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.5	5.0	µg/L	10.0		105	70-130	22.0	25	
1,2-Dibromoethane (EDB)	9.38	0.50	µg/L	10.0		93.8	70-130	22.3	25	
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130	11.5	25	
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	5.06	25	
1,3-Dichlorobenzene	9.26	1.0	µg/L	10.0		92.6	70-130	7.48	25	
1,4-Dichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130	0.914	25	
trans-1,4-Dichloro-2-butene	7.09	2.0	µg/L	10.0		70.9	70-130	16.7	25	V-05
Dichlorodifluoromethane (Freon 12)	5.55	2.0	µg/L	10.0		55.5	40-160	5.43	25	†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130	3.86	25	
1,2-Dichloroethane	9.49	1.0	µg/L	10.0		94.9	70-130	13.7	25	
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130	2.10	25	
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	7.42	25	
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	4.57	25	
1,2-Dichloropropane	9.50	1.0	µg/L	10.0		95.0	70-130	19.2	25	
1,3-Dichloropropane	9.02	0.50	µg/L	10.0		90.2	70-130	18.3	25	
2,2-Dichloropropane	9.58	1.0	µg/L	10.0		95.8	40-130	0.944	25	†
1,1-Dichloropropene	9.87	2.0	µg/L	10.0		98.7	70-130	9.67	25	
cis-1,3-Dichloropropene	8.83	0.50	µg/L	10.0		88.3	70-130	24.5	25	
trans-1,3-Dichloropropene	9.21	0.50	µg/L	10.0		92.1	70-130	18.2	25	
Diethyl Ether	10.3	2.0	µg/L	10.0		103	70-130	0.194	25	
Diisopropyl Ether (DIPE)	10.9	0.50	µg/L	10.0		109	70-130	12.2	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090518 - SW-846 5030B

LCS Dup (B090518-BSD1)

Prepared & Analyzed: 02/18/14

1,4-Dioxane	102	50	µg/L	100		102	40-130	3.61	50	V-16 † ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.882	25	
Hexachlorobutadiene	9.29	0.50	µg/L	10.0		92.9	70-130	3.28	25	
2-Hexanone (MBK)	99.1	10	µg/L	100		99.1	70-160	5.75	25	†
Isopropylbenzene (Cumene)	8.99	1.0	µg/L	10.0		89.9	70-130	17.4	25	
p-Isopropyltoluene (p-Cymene)	9.60	1.0	µg/L	10.0		96.0	70-130	2.67	25	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130	9.62	25	
Methylene Chloride	16.0	5.0	µg/L	10.0		160 *	70-130	0.373	25	L-02, V-20
4-Methyl-2-pentanone (MIBK)	95.6	10	µg/L	100		95.6	70-160	16.1	25	†
Naphthalene	9.50	2.0	µg/L	10.0		95.0	40-130	23.5	25	†
n-Propylbenzene	9.38	1.0	µg/L	10.0		93.8	70-130	11.8	25	
Styrene	9.04	1.0	µg/L	10.0		90.4	70-130	11.8	25	
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111	70-130	4.32	25	
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130	3.33	25	
Tetrachloroethylene	9.47	1.0	µg/L	10.0		94.7	70-130	29.3 *	25	R-05
Tetrahydrofuran	11.6	10	µg/L	10.0		116	70-130	1.64	25	
Toluene	8.40	1.0	µg/L	10.0		84.0	70-130	22.5	25	
1,2,3-Trichlorobenzene	8.74	5.0	µg/L	10.0		87.4	70-130	10.2	25	
1,2,4-Trichlorobenzene	9.69	1.0	µg/L	10.0		96.9	70-130	18.7	25	
1,3,5-Trichlorobenzene	8.93	1.0	µg/L	10.0		89.3	70-130	13.5	25	
1,1,1-Trichloroethane	9.89	1.0	µg/L	10.0		98.9	70-130	1.21	25	
1,1,2-Trichloroethane	9.37	1.0	µg/L	10.0		93.7	70-130	20.3	25	
Trichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130	15.8	25	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	2.01	25	
1,2,3-Trichloropropane	9.47	2.0	µg/L	10.0		94.7	70-130	4.04	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130	0.00	25	
1,2,4-Trimethylbenzene	9.41	1.0	µg/L	10.0		94.1	70-130	4.97	25	
1,3,5-Trimethylbenzene	9.83	1.0	µg/L	10.0		98.3	70-130	16.2	25	
Vinyl Chloride	7.99	2.0	µg/L	10.0		79.9	40-160	8.97	25	†
m+p Xylene	19.1	2.0	µg/L	20.0		95.6	70-130	5.89	25	
o-Xylene	9.01	1.0	µg/L	10.0		90.1	70-130	11.9	25	
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.2	70-130			
Surrogate: Toluene-d8	22.9		µg/L	25.0		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	22.5		µg/L	25.0		90.1	70-130			

Batch B090519 - SW-846 5030B

Blank (B090519-BLK1)

Prepared & Analyzed: 02/18/14

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							L-04, V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090519 - SW-846 5030B

Blank (B090519-BLK1)

Prepared & Analyzed: 02/18/14

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							L-04, V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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	0.50	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 tert-Butyl Ether (MTBE)	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							

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 B090519 - SW-846 5030B										
Blank (B090519-BLK1)										
Prepared & Analyzed: 02/18/14										
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	22.1		µg/L	25.0		88.4	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.0	70-130			
LCS (B090519-BS1)										
Prepared & Analyzed: 02/18/14										
Acetone	83.8	50	µg/L	100		83.8	70-160			†
Acrylonitrile	9.17	5.0	µg/L	10.0		91.7	70-130			
tert-Amyl Methyl Ether (TAME)	8.72	0.50	µg/L	10.0		87.2	70-130			
Benzene	11.4	1.0	µg/L	10.0		114	70-130			
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130			
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130			
Bromodichloromethane	8.17	0.50	µg/L	10.0		81.7	70-130			
Bromoform	6.74	1.0	µg/L	10.0		67.4 *	70-130			L-04, V-05
Bromomethane	9.45	2.0	µg/L	10.0		94.5	40-160			V-20 †
2-Butanone (MEK)	93.8	20	µg/L	100		93.8	40-160			†
tert-Butyl Alcohol (TBA)	78.8	20	µg/L	100		78.8	40-160			V-05 †
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.55	0.50	µg/L	10.0		95.5	70-130			
Carbon Disulfide	8.25	4.0	µg/L	10.0		82.5	70-130			
Carbon Tetrachloride	8.07	5.0	µg/L	10.0		80.7	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	7.17	0.50	µg/L	10.0		71.7	70-130			
Chloroethane	9.89	2.0	µg/L	10.0		98.9	70-130			
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	7.13	2.0	µg/L	10.0		71.3	40-160			†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.18	5.0	µg/L	10.0		61.8 *	70-130			L-04, V-05
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	9.92	1.0	µg/L	10.0		99.2	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	8.62	2.0	µg/L	10.0		86.2	70-130			
Dichlorodifluoromethane (Freon 12)	5.86	2.0	µg/L	10.0		58.6	40-160			†
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dichloroethane	9.21	1.0	µg/L	10.0		92.1	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
trans-1,2-Dichloroethylene	9.47	1.0	µg/L	10.0		94.7	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090519 - SW-846 5030B										
LCS (B090519-BS1)										
Prepared & Analyzed: 02/18/14										
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
2,2-Dichloropropane	9.85	1.0	µg/L	10.0		98.5	40-130			†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	8.66	0.50	µg/L	10.0		86.6	70-130			
trans-1,3-Dichloropropene	7.83	0.50	µg/L	10.0		78.3	70-130			
Diethyl Ether	9.97	2.0	µg/L	10.0		99.7	70-130			
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106	70-130			
1,4-Dioxane	131	50	µg/L	100		131 *	40-130			L-02, V-16, V-20 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130			
2-Hexanone (MBK)	93.8	10	µg/L	100		93.8	70-160			†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112	70-130			
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.0		109	70-130			
Methyl tert-Butyl Ether (MTBE)	8.42	1.0	µg/L	10.0		84.2	70-130			
Methylene Chloride	9.52	5.0	µg/L	10.0		95.2	70-130			
4-Methyl-2-pentanone (MIBK)	93.8	10	µg/L	100		93.8	70-160			†
Naphthalene	8.18	2.0	µg/L	10.0		81.8	40-130			V-05 †
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Styrene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1,2-Tetrachloroethane	9.85	1.0	µg/L	10.0		98.5	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130			
Toluene	11.2	1.0	µg/L	10.0		112	70-130			
1,2,3-Trichlorobenzene	8.88	5.0	µg/L	10.0		88.8	70-130			
1,2,4-Trichlorobenzene	8.07	1.0	µg/L	10.0		80.7	70-130			
1,3,5-Trichlorobenzene	9.75	1.0	µg/L	10.0		97.5	70-130			
1,1,1-Trichloroethane	8.65	1.0	µg/L	10.0		86.5	70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	9.81	2.0	µg/L	10.0		98.1	70-130			
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Vinyl Chloride	8.26	2.0	µg/L	10.0		82.6	40-160			†
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	21.7		µg/L	25.0		86.9	70-130			
Surrogate: Toluene-d8	26.2		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	26.1		µg/L	25.0		104	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090519 - SW-846 5030B										
LCS Dup (B090519-BSD1)										
Prepared & Analyzed: 02/18/14										
Acetone	81.1	50	µg/L	100		81.1	70-160	3.29	25	†
Acrylonitrile	8.97	5.0	µg/L	10.0		89.7	70-130	2.21	25	
tert-Amyl Methyl Ether (TAME)	8.59	0.50	µg/L	10.0		85.9	70-130	1.50	25	
Benzene	11.1	1.0	µg/L	10.0		111	70-130	2.49	25	
Bromobenzene	9.93	1.0	µg/L	10.0		99.3	70-130	1.20	25	
Bromochloromethane	11.1	1.0	µg/L	10.0		111	70-130	0.809	25	
Bromodichloromethane	7.86	0.50	µg/L	10.0		78.6	70-130	3.87	25	
Bromoform	6.69	1.0	µg/L	10.0		66.9 *	70-130	0.745	25	L-04, V-05
Bromomethane	9.63	2.0	µg/L	10.0		96.3	40-160	1.89	25	V-20 †
2-Butanone (MEK)	96.1	20	µg/L	100		96.1	40-160	2.44	25	†
tert-Butyl Alcohol (TBA)	76.2	20	µg/L	100		76.2	40-160	3.24	25	V-05 †
n-Butylbenzene	9.88	1.0	µg/L	10.0		98.8	70-130	4.26	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	5.56	25	
tert-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	3.39	25	
tert-Butyl Ethyl Ether (TBEE)	9.15	0.50	µg/L	10.0		91.5	70-130	4.28	25	
Carbon Disulfide	7.29	4.0	µg/L	10.0		72.9	70-130	12.4	25	
Carbon Tetrachloride	8.03	5.0	µg/L	10.0		80.3	70-130	0.497	25	
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.46	25	
Chlorodibromomethane	7.08	0.50	µg/L	10.0		70.8	70-130	1.26	25	
Chloroethane	9.13	2.0	µg/L	10.0		91.3	70-130	7.99	25	
Chloroform	9.93	2.0	µg/L	10.0		99.3	70-130	2.49	25	
Chloromethane	6.44	2.0	µg/L	10.0		64.4	40-160	10.2	25	†
2-Chlorotoluene	9.96	1.0	µg/L	10.0		99.6	70-130	1.59	25	
4-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130	2.65	25	
1,2-Dibromo-3-chloropropane (DBCP)	6.22	5.0	µg/L	10.0		62.2 *	70-130	0.645	25	L-04, V-05
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130	4.78	25	
Dibromomethane	9.59	1.0	µg/L	10.0		95.9	70-130	3.38	25	
1,2-Dichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130	4.39	25	
1,3-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130	2.67	25	
1,4-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130	3.54	25	
trans-1,4-Dichloro-2-butene	8.91	2.0	µg/L	10.0		89.1	70-130	3.31	25	
Dichlorodifluoromethane (Freon 12)	5.55	2.0	µg/L	10.0		55.5	40-160	5.43	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	3.62	25	
1,2-Dichloroethane	9.14	1.0	µg/L	10.0		91.4	70-130	0.763	25	
1,1-Dichloroethylene	9.32	1.0	µg/L	10.0		93.2	70-130	9.21	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.878	25	
trans-1,2-Dichloroethylene	9.34	1.0	µg/L	10.0		93.4	70-130	1.38	25	
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130	1.54	25	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	2.72	25	
2,2-Dichloropropane	9.56	1.0	µg/L	10.0		95.6	40-130	2.99	25	†
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103	70-130	2.11	25	
cis-1,3-Dichloropropene	8.36	0.50	µg/L	10.0		83.6	70-130	3.53	25	
trans-1,3-Dichloropropene	7.67	0.50	µg/L	10.0		76.7	70-130	2.06	25	
Diethyl Ether	9.12	2.0	µg/L	10.0		91.2	70-130	8.91	25	
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103	70-130	2.78	25	
1,4-Dioxane	135	50	µg/L	100		135 *	40-130	3.28	50	V-20, L-02, V-16 † ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	3.80	25	
Hexachlorobutadiene	10.4	0.50	µg/L	10.0		104	70-130	4.34	25	
2-Hexanone (MBK)	93.6	10	µg/L	100		93.6	70-160	0.203	25	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130	3.91	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130	2.97	25	
Methyl tert-Butyl Ether (MTBE)	8.71	1.0	µg/L	10.0		87.1	70-130	3.39	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090519 - SW-846 5030B

LCS Dup (B090519-BSD1)

Prepared & Analyzed: 02/18/14

Methylene Chloride	8.70	5.0	µg/L	10.0		87.0	70-130	9.00	25	
4-Methyl-2-pentanone (MIBK)	94.6	10	µg/L	100		94.6	70-160	0.860	25	†
Naphthalene	8.40	2.0	µg/L	10.0		84.0	40-130	2.65	25	V-05 †
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	3.74	25	
Styrene	10.9	1.0	µg/L	10.0		109	70-130	2.45	25	
1,1,1,2-Tetrachloroethane	9.52	1.0	µg/L	10.0		95.2	70-130	3.41	25	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130	0.00	25	
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130	6.19	25	
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130	1.46	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	4.27	25	
1,2,3-Trichlorobenzene	9.14	5.0	µg/L	10.0		91.4	70-130	2.89	25	
1,2,4-Trichlorobenzene	8.18	1.0	µg/L	10.0		81.8	70-130	1.35	25	
1,3,5-Trichlorobenzene	9.46	1.0	µg/L	10.0		94.6	70-130	3.02	25	
1,1,1-Trichloroethane	8.21	1.0	µg/L	10.0		82.1	70-130	5.22	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	2.62	25	
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	3.13	25	
Trichlorofluoromethane (Freon 11)	8.92	2.0	µg/L	10.0		89.2	70-130	9.50	25	
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130	1.58	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.19	1.0	µg/L	10.0		91.9	70-130	8.94	25	
1,2,4-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	3.86	25	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	3.37	25	
Vinyl Chloride	7.56	2.0	µg/L	10.0		75.6	40-160	8.85	25	†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	3.66	25	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	3.12	25	
Surrogate: 1,2-Dichloroethane-d4	21.9		µg/L	25.0		87.7	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			

Batch B090570 - SW-846 5030B

Blank (B090570-BLK1)

Prepared & Analyzed: 02/19/14

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							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							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090570 - SW-846 5030B

Blank (B090570-BLK1)

Prepared & Analyzed: 02/19/14

Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							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							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							R-05
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	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							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090570 - SW-846 5030B

Blank (B090570-BLK1)

Prepared & Analyzed: 02/19/14

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	22.1		µg/L	25.0		88.5	70-130			
Surrogate: Toluene-d8	26.7		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8	70-130			

LCS (B090570-BS1)

Prepared & Analyzed: 02/19/14

Acetone	100	50	µg/L	100		100	70-160			†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130			
tert-Amyl Methyl Ether (TAME)	8.77	0.50	µg/L	10.0		87.7	70-130			
Benzene	8.85	1.0	µg/L	10.0		88.5	70-130			
Bromobenzene	9.89	1.0	µg/L	10.0		98.9	70-130			
Bromochloromethane	9.63	1.0	µg/L	10.0		96.3	70-130			
Bromodichloromethane	11.3	0.50	µg/L	10.0		113	70-130			
Bromoform	11.4	1.0	µg/L	10.0		114	70-130			
Bromomethane	11.7	2.0	µg/L	10.0		117	40-160		V-20	†
2-Butanone (MEK)	106	20	µg/L	100		106	40-160			†
tert-Butyl Alcohol (TBA)	114	20	µg/L	100		114	40-160		V-16	†
n-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
tert-Butylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.19	0.50	µg/L	10.0		91.9	70-130			
Carbon Disulfide	10.9	4.0	µg/L	10.0		109	70-130			
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130			
Chlorobenzene	9.58	1.0	µg/L	10.0		95.8	70-130			
Chlorodibromomethane	11.7	0.50	µg/L	10.0		117	70-130			
Chloroethane	12.8	2.0	µg/L	10.0		128	70-130			
Chloroform	10.0	2.0	µg/L	10.0		100	70-130			
Chloromethane	10.8	2.0	µg/L	10.0		108	40-160		V-20	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.72	5.0	µg/L	10.0		97.2	70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130			
Dibromomethane	9.95	1.0	µg/L	10.0		99.5	70-130			
1,2-Dichlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130			
1,3-Dichlorobenzene	9.41	1.0	µg/L	10.0		94.1	70-130			
1,4-Dichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130			
trans-1,4-Dichloro-2-butene	7.88	2.0	µg/L	10.0		78.8	70-130		V-05	
Dichlorodifluoromethane (Freon 12)	4.60	2.0	µg/L	10.0		46.0	40-160		V-05	†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
trans-1,2-Dichloroethylene	9.84	1.0	µg/L	10.0		98.4	70-130			
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130			†
1,1-Dichloropropene	9.53	2.0	µg/L	10.0		95.3	70-130			
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130			
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090570 - SW-846 5030B

LCS (B090570-BS1)

Prepared & Analyzed: 02/19/14

Diethyl Ether	9.01	2.0	µg/L	10.0		90.1	70-130			
Diisopropyl Ether (DIPE)	9.87	0.50	µg/L	10.0		98.7	70-130			
1,4-Dioxane	120	50	µg/L	100		120	40-130			V-16 †
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Hexachlorobutadiene	10.7	0.50	µg/L	10.0		107	70-130			
2-Hexanone (MBK)	113	10	µg/L	100		113	70-160			R-05 †
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	9.22	1.0	µg/L	10.0		92.2	70-130			
Methylene Chloride	14.6	5.0	µg/L	10.0		146 *	70-130			L-02, V-20
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113	70-160			†
Naphthalene	9.79	2.0	µg/L	10.0		97.9	40-130			†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Tetrahydrofuran	11.1	10	µg/L	10.0		111	70-130			
Toluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2,3-Trichlorobenzene	9.36	5.0	µg/L	10.0		93.6	70-130			
1,2,4-Trichlorobenzene	9.83	1.0	µg/L	10.0		98.3	70-130			
1,3,5-Trichlorobenzene	9.62	1.0	µg/L	10.0		96.2	70-130			
1,1,1-Trichloroethane	9.80	1.0	µg/L	10.0		98.0	70-130			
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110	70-130			
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102	70-130			
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	9.31	1.0	µg/L	10.0		93.1	70-130			
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
Vinyl Chloride	7.61	2.0	µg/L	10.0		76.1	40-160			†
m+p Xylene	19.6	2.0	µg/L	20.0		98.1	70-130			
o-Xylene	9.89	1.0	µg/L	10.0		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		µg/L	25.0		90.4	70-130			
Surrogate: Toluene-d8	26.8		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

LCS Dup (B090570-BSD1)

Prepared & Analyzed: 02/19/14

Acetone	101	50	µg/L	100		101	70-160	0.935	25	†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130	1.64	25	
tert-Amyl Methyl Ether (TAME)	8.54	0.50	µg/L	10.0		85.4	70-130	2.66	25	
Benzene	9.46	1.0	µg/L	10.0		94.6	70-130	6.66	25	
Bromobenzene	9.61	1.0	µg/L	10.0		96.1	70-130	2.87	25	
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130	9.21	25	
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130	10.4	25	
Bromoform	10.7	1.0	µg/L	10.0		107	70-130	5.61	25	
Bromomethane	13.9	2.0	µg/L	10.0		139	40-160	16.9	25	V-20 †
2-Butanone (MEK)	97.5	20	µg/L	100		97.5	40-160	8.18	25	†
tert-Butyl Alcohol (TBA)	113	20	µg/L	100		113	40-160	1.21	25	V-16 †
n-Butylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	11.6	25	
sec-Butylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130	1.40	25	
tert-Butylbenzene	9.47	1.0	µg/L	10.0		94.7	70-130	0.423	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090570 - SW-846 5030B

LCS Dup (B090570-BSD1)

Prepared & Analyzed: 02/19/14

tert-Butyl Ethyl Ether (TBEE)	9.06	0.50	µg/L	10.0		90.6	70-130	1.42	25	
Carbon Disulfide	10.7	4.0	µg/L	10.0		107	70-130	1.85	25	
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130	5.42	25	
Chlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	4.39	25	
Chlorodibromomethane	9.77	0.50	µg/L	10.0		97.7	70-130	17.7	25	
Chloroethane	12.9	2.0	µg/L	10.0		129	70-130	0.779	25	
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	2.37	25	
Chloromethane	11.5	2.0	µg/L	10.0		115	40-160	6.92	25	V-20 †
2-Chlorotoluene	9.61	1.0	µg/L	10.0		96.1	70-130	4.77	25	
4-Chlorotoluene	9.73	1.0	µg/L	10.0		97.3	70-130	3.63	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.63	5.0	µg/L	10.0		86.3	70-130	11.9	25	
1,2-Dibromoethane (EDB)	9.40	0.50	µg/L	10.0		94.0	70-130	16.1	25	
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130	4.61	25	
1,2-Dichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	8.91	25	
1,3-Dichlorobenzene	9.35	1.0	µg/L	10.0		93.5	70-130	0.640	25	
1,4-Dichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	0.304	25	
trans-1,4-Dichloro-2-butene	7.45	2.0	µg/L	10.0		74.5	70-130	5.61	25	V-05
Dichlorodifluoromethane (Freon 12)	4.56	2.0	µg/L	10.0		45.6	40-160	0.873	25	V-05 †
1,1-Dichloroethane	9.78	1.0	µg/L	10.0		97.8	70-130	4.30	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	2.65	25	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	3.24	25	
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	7.13	25	
trans-1,2-Dichloroethylene	9.59	1.0	µg/L	10.0		95.9	70-130	2.57	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	6.57	25	
1,3-Dichloropropane	9.82	0.50	µg/L	10.0		98.2	70-130	9.87	25	
2,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	40-130	3.55	25	†
1,1-Dichloropropene	10.9	2.0	µg/L	10.0		109	70-130	13.1	25	
cis-1,3-Dichloropropene	9.40	0.50	µg/L	10.0		94.0	70-130	8.07	25	
trans-1,3-Dichloropropene	9.91	0.50	µg/L	10.0		99.1	70-130	14.3	25	
Diethyl Ether	9.58	2.0	µg/L	10.0		95.8	70-130	6.13	25	
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130	6.09	25	
1,4-Dioxane	94.1	50	µg/L	100		94.1	40-130	24.3	50	V-16 † ‡
Ethylbenzene	9.75	1.0	µg/L	10.0		97.5	70-130	2.93	25	
Hexachlorobutadiene	9.73	0.50	µg/L	10.0		97.3	70-130	9.78	25	
2-Hexanone (MBK)	82.8	10	µg/L	100		82.8	70-160	30.8 *	25	R-05 †
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130	0.0969	25	
p-Isopropyltoluene (p-Cymene)	9.63	1.0	µg/L	10.0		96.3	70-130	11.3	25	
Methyl tert-Butyl Ether (MTBE)	8.89	1.0	µg/L	10.0		88.9	70-130	3.64	25	
Methylene Chloride	15.5	5.0	µg/L	10.0		155 *	70-130	6.58	25	L-02, V-20
4-Methyl-2-pentanone (MIBK)	98.0	10	µg/L	100		98.0	70-160	14.4	25	†
Naphthalene	8.17	2.0	µg/L	10.0		81.7	40-130	18.0	25	†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.31	25	
Styrene	9.66	1.0	µg/L	10.0		96.6	70-130	4.45	25	
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130	4.27	25	
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130	3.18	25	
Tetrachloroethylene	9.58	1.0	µg/L	10.0		95.8	70-130	13.8	25	
Tetrahydrofuran	10.7	10	µg/L	10.0		107	70-130	3.30	25	
Toluene	9.21	1.0	µg/L	10.0		92.1	70-130	9.61	25	
1,2,3-Trichlorobenzene	8.67	5.0	µg/L	10.0		86.7	70-130	7.65	25	
1,2,4-Trichlorobenzene	9.55	1.0	µg/L	10.0		95.5	70-130	2.89	25	
1,3,5-Trichlorobenzene	8.94	1.0	µg/L	10.0		89.4	70-130	7.33	25	
1,1,1-Trichloroethane	9.97	1.0	µg/L	10.0		99.7	70-130	1.72	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B090570 - SW-846 5030B

LCS Dup (B090570-BSD1)

Prepared & Analyzed: 02/19/14

1,1,2-Trichloroethane	9.70	1.0	µg/L	10.0		97.0	70-130	9.24	25	
Trichloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130	9.94	25	
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130	0.903	25	
1,2,3-Trichloropropane	9.57	2.0	µg/L	10.0		95.7	70-130	6.18	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130	2.04	25	
1,2,4-Trimethylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130	2.96	25	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	0.892	25	
Vinyl Chloride	8.19	2.0	µg/L	10.0		81.9	40-160	7.34	25	†
m+p Xylene	19.8	2.0	µg/L	20.0		99.2	70-130	1.17	25	
o-Xylene	9.59	1.0	µg/L	10.0		95.9	70-130	3.08	25	
Surrogate: 1,2-Dichloroethane-d4	22.2		µg/L	25.0		88.6	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B090652 - SW-846 3510C										
Blank (B090652-BLK1)										
					Prepared: 02/20/14 Analyzed: 02/21/14					
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	0.0896		mg/L	0.100		89.6	40-140			
LCS (B090652-BS1)										
					Prepared: 02/20/14 Analyzed: 02/21/14					
Fuel Oil #2	0.837	0.20	mg/L	1.00		83.7	40-140			
TPH (C9-C36)	0.837	0.20	mg/L	1.00		83.7	40-140			
Surrogate: o-Terphenyl	0.0906		mg/L	0.100		90.6	40-140			
LCS Dup (B090652-BSD1)										
					Prepared: 02/20/14 Analyzed: 02/21/14					
Fuel Oil #2	0.868	0.20	mg/L	1.00		86.8	40-140	3.62	25	
TPH (C9-C36)	0.868	0.20	mg/L	1.00		86.8	40-140	3.62	25	
Surrogate: o-Terphenyl	0.0915		mg/L	0.100		91.5	40-140			

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
- 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-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - RL-11 Elevated reporting limit due to high concentration of target compounds.
 - 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.
 - Z-01 Sample contamination does not match any reference standard. Majority of contamination falls within C12-C32 of the hydrocarbon range.

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
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	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



CONTEST
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Shaw EOL, CBI Telephone: 617-589-4030
Address: 150 Royal St, CBI Project # 130274
Center MA 02831 Client PO# 835493

Attention: Ed Vandover DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Location: Providence, RI Fax #
Sampled By: Paul Ladoux Email: Edward.Vandover@CBI.com

Project Proposal Provided? (for billing purposes)
 Yes No

Cor-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Ende	*Matrix Conc Ende	# of Containers	** Preservation	*** Container Code
		Beginning Date/Time	Ending Date/Time							
01	MW 207 S	2-14-14	0700		✓	GW		3		
02	MW 207 D	2-14-14	0730					3		
03	MW 208 D	2-14-14	0800					3		
04	MW 208 S	2-14-14	0830					3		
05	MW 101 D	2-14-14	0930					3		
06	MW 101 S	2-14-14	1000					3		
07	MW 216 S	2-14-14	1100					3		
08	MW 216 D	2-14-14	1130					3		
09	MW 217 S	2-14-14	1230					3		
10	MW 217 D	2-14-14	1300					3		

Comments: Dissolved Metals are field filtered
Please email: gkray@contest.com EDD RPT of Report to:
Catherine, Mainville @CBI.com + Edward.Vandover@CBI.com

Relinquished by: (signature) [Signature] Date/Time: 2/13/15
Relinquished by: (signature) [Signature] Date/Time: 2/17/14
Relinquished by: (signature) [Signature] Date/Time: 2/17/14
Relinquished by: (signature) [Signature] Date/Time: 2/17/14

Received by: (signature) [Signature] Date/Time: 2/17/14
Received by: (signature) [Signature] Date/Time: 2/17/14
Received by: (signature) [Signature] Date/Time: 2/17/14

Turnaround # 130274
 7-Day 10-Day Other
 24-Hr 48-Hr 72-Hr 14-Day
Require lab approval

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: _____

IS INCORRECT. TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.
PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

of Containers
** Preservation
*** Container Code
Dissolved Meta
 Field Filtered
 Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I=iced
H=HCL
M=Methanol
N=Nitric Acid
S=Sulfuric Acid
B=Sodium bisulfate
X=Na hydroxide
T=Na thiosulfate
O=Other

*Matrix Code:
GW=groundwater
WW=wastewater
DW=drinking water
A=air
S=sol/solid
SL=sludge
O=other

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required
PWSID # _____
NELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified





con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-8405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 3

Company Name: Shaw Env., CBI CO.
Address: 130 Royall St.
Attention: Ed Vondoren
Project Location: Auriverce, MA
Sampled By: Paul Lederer

Telephone: 617 589 4030
Project # 1302774
Client PO# 835493
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

ANALYSIS REQUESTED

of Containers
** Preservation
*** Container Code
Dissolved Meta
 Field Filtered
 Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=teflar bag
O=Other

Project Proposal Provided? (for billing purposes)
 Yes No
proposal date

Format
 PDF EXCEL OGIS
 OTHER GISKEY
 "Enhanced Data Package"

Con-Test Lab ID
(Laboratory use only)

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

*Matrix Code

Can Code

11 MWS 1019 DUF
12 TRIP Blanks

8-14-14

1000

✓

GW

3

EPA 8260 VOC

**Preservation
I = Ice
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: DeSSolved head Sampled on Field E:1st row.
Please Email GISKEY formatted EDD+PDF of report to:
Catherine.McIntire@CBI.com + Ed Vondoren@CBI.com

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature)

Date/Time: 1/3/08

Turnaround #

Detection Limit Requirements

Is your project MCP or RCP?

Received by (signature)

Date/Time: 2/17/14

7-Day
 10-Day
 Other

Massachusetts:

MCP Form Required
 RCP Form Required
 MA State DW Form Required

Relinquished by (signature)

Date/Time: 2/17/14

24-Hr 48-Hr
 72-Hr 14-Day

Connecticut:

MCP Form Required
 RCP Form Required
 MA State DW Form Required

Received by (signature)

Date/Time: 3-21-14

Require lab approval

Other:

MCP Form Required
 RCP Form Required
 MA State DW Form Required



NELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY FOR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



CON-TEST
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
Eastlongmeadow, MA 01028

Page 3 of 3

Company Name: Shas ENV. CBI co. Telephone: 617 587 4230
Address: 110 Loyall ST Project # 130874
Costok MA 02091 Client PO# 835493

Attention: Ed Van Doren DATA DELIVERY (check all that apply)
 FAX EMAIL OVERSITE

Project Location: Providence RI Project # 130874
Sampled By: P. Redaek Email: Edward.Vandoren@CBI.com
Project Proposal Provided? (for billing purposes) Yes No (proposal date) 1/17/14
Format: OTHER GISKEY

Rev 04.05.12
14B0423
Rev 04.05.12

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grid	Matrix Code	Cont. Code	Matrix Code	# of Containers	Preservation	Container Code	Dissolved Metal	Field Filtered	Lab to Filter
		Beginning Date/Time	Ending Date/Time											
13	CU-1	3.14.14	1430		✓	CU			3					
14	CU-2	3.14.14	1400						3					
15	MU 209D	3.15.14	0700						3					
16	MU 112	3.15.14	0800						3					
17	MU 218D	3.15.14	0900						3					
18	MU 218S	3.15.14	0930						3					
19	CU-6	3.15.14	1030											
20	CU-6 Dup	3.15.14	1030											
21	MU 116 D	3.15.14	1130						3					
22	MU 116 S	3.15.14	1200						3					

Comments: Described Lead samples and Field CITE for
Play & E-mail GISKEY formatted EDD + PDF of APPY To:
Catherine.Mainville@CBI.com + Ed.Vandoren@CBI.com
H. High; M. Medium; L. Low; C. Clean; U. Unknown

Received by: (signature) [Signature] Date/Time: 3/17/14 Turnaround 7-Day 10-Day Other _____

Received by: (signature) [Signature] Date/Time: 3/17/14 RUSH 24-Hr 48-Hr 72-Hr 4-Day Require lab approval

Received by: (signature) [Signature] Date/Time: 3/17/14 Other: _____

Received by: (signature) [Signature] Date/Time: 3/17/14 Turnaround 7-Day 10-Day Other _____

Received by: (signature) [Signature] Date/Time: 3/17/14 RUSH 24-Hr 48-Hr 72-Hr 4-Day Require lab approval

Received by: (signature) [Signature] Date/Time: 3/17/14 Other: _____

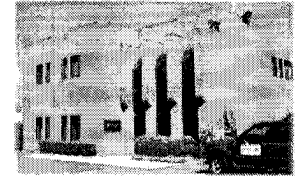
Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT.

NEIAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

MA State DW Form Required PWSID # _____

MA State DW Form Required PWSID # _____

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



Sample Receipt Checklist

CLIENT NAME: Shaw / CBI RECEIVED BY: RLF DATE: 2/17/14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 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 3.4°C

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: 19
 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 No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	63	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: Tap Blanks Received, not on COC

40 mL vials: # HCl 63 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

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)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
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 requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
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:

Date/Time:

RLT 2/17/14 1425

March 14, 2014

Edward Van Doren
CB&I Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: 130274 - Providence, RI - CO#501
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 14C0200

Enclosed are results of analyses for samples received by the laboratory on March 7, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager



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: Edward Van Doren

REPORT DATE: 3/14/2014

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14C0200

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

PROJECT LOCATION: 130274 - Providence, RI - CO#501

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-116D	14C0200-01	Ground Water		SW-846 8260C	
MW-116S	14C0200-02	Ground Water		SW-846 8260C	
MW-112	14C0200-03	Ground Water		SW-846 8260C	
GZA-3	14C0200-04	Ground Water		SW-846 6010C SW-846 8260C	
GZA-3 Dup	14C0200-05	Ground Water		SW-846 6010C	
MW-109D	14C0200-06	Ground Water		SW-846 6010C SW-846 8260C	

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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

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

B091565-BS1, B091565-BSD1

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

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP), Bromomethane, Carbon Disulfide**

14C0200-01[MW-116D], 14C0200-02[MW-116S], 14C0200-03[MW-112], B091565-BLK1, B091565-BS1, B091565-BSD1, 14C0200-04[GZA-3], 14C0200-06[MW-109D], B091652-BLK1, B091652-BS1, B091652-BSD1

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:**Acetone**

B091565-BS1

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:**tert-Butyl Alcohol (TBA)**

14C0200-04[GZA-3], 14C0200-06[MW-109D], B091652-BLK1, B091652-BS1, B091652-BSD1

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:**1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Chloroethane, Naphthalene, tert-Butyl Alcohol (TBA)**

14C0200-01[MW-116D], 14C0200-02[MW-116S], 14C0200-03[MW-112], B091565-BLK1, B091565-BS1, B091565-BSD1, 14C0200-04[GZA-3], 14C0200-06[MW-109D], B091652-BLK1, B091652-BS1, B091652-BSD1

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, tert-Butyl Alcohol (TBA), Tetrahydrofuran**

14C0200-01[MW-116D], 14C0200-02[MW-116S], 14C0200-03[MW-112], 14C0200-04[GZA-3], 14C0200-06[MW-109D], B091565-BLK1, B091565-BS1, B091565-BSD1, B091652-BLK1, B091652-BS1, B091652-BSD1

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**

B091565-BS1, B091565-BSD1

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

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



Daren J. Damboragian
Laboratory Manager

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-116D

Sampled: 3/6/2014 09:00

Sample ID: 14C0200-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Carbon Disulfide	ND	4.0	µg/L	1	L-04	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-116D

Sampled: 3/6/2014 09:00

Sample ID: 14C0200-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 16:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	76.2	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	106	70-130	

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-116S

Sampled: 3/6/2014 09:30

Sample ID: 14C0200-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Carbon Disulfide	ND	4.0	µg/L	1	L-04	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-116S

Sampled: 3/6/2014 09:30

Sample ID: 14C0200-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	76.2	70-130	3/10/14 17:03
Toluene-d8	103	70-130	3/10/14 17:03
4-Bromofluorobenzene	106	70-130	3/10/14 17:03

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-112

Sampled: 3/6/2014 10:00

Sample ID: 14C0200-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Carbon Disulfide	ND	4.0	µg/L	1	L-04	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-112

Sampled: 3/6/2014 10:00

Sample ID: 14C0200-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Tetrachloroethylene	1200	50	µg/L	50		SW-846 8260C	3/10/14	3/12/14 13:34	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Trichloroethylene	3.9	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/10/14	3/10/14 17:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	91.4	70-130	3/12/14 13:34
1,2-Dichloroethane-d4	76.5	70-130	3/10/14 17:34
Toluene-d8	103	70-130	3/10/14 17:34
Toluene-d8	99.4	70-130	3/12/14 13:34
4-Bromofluorobenzene	99.3	70-130	3/12/14 13:34
4-Bromofluorobenzene	106	70-130	3/10/14 17:34

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: GZA-3

Sampled: 3/6/2014 11:30

Sample ID: 14C0200-04

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	3/11/14	3/12/14 12:14	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	3/11/14	3/12/14 12:14	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05, V-05, V-16	SW-846 8260C	3/11/14	3/12/14 12:14	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1-Dichloroethane	1.4	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2-Dichloroethane	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
cis-1,2-Dichloroethylene	47	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: GZA-3

Sampled: 3/6/2014 11:30

Sample ID: 14C0200-04

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	3/11/14	3/12/14 12:14	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Methyl tert-Butyl Ether (MTBE)	3.0	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Tetrahydrofuran	ND	10	µg/L	1	V-16	SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Trichloroethylene	4.2	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
Vinyl Chloride	30	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.7	70-130	3/12/14 12:14
Toluene-d8	101	70-130	3/12/14 12:14
4-Bromofluorobenzene	100	70-130	3/12/14 12:14

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: GZA-3

Sampled: 3/6/2014 11:30

Sample ID: 14C0200-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	3/8/14	3/10/14 20:10	OP

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: GZA-3 Dup

Sampled: 3/6/2014 11:30

Sample ID: 14C0200-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	3/8/14	3/10/14 20:14	OP

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-109D

Sampled: 3/6/2014 12:30

Sample ID: 14C0200-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Bromomethane	ND	2.0	µg/L	1	L-04	SW-846 8260C	3/11/14	3/12/14 12:41	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	R-05, V-05, V-16	SW-846 8260C	3/11/14	3/12/14 12:41	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2-Dichloroethane	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH



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

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-109D

Sampled: 3/6/2014 12:30

Sample ID: 14C0200-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Tetrahydrofuran	ND	10	µg/L	1	V-16	SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/11/14	3/12/14 12:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	91.0	70-130	3/12/14 12:41
Toluene-d8	99.7	70-130	3/12/14 12:41
4-Bromofluorobenzene	101	70-130	3/12/14 12:41

Project Location: 130274 - Providence, RI - CO#50

Sample Description:

Work Order: 14C0200

Date Received: 3/7/2014

Field Sample #: MW-109D

Sampled: 3/6/2014 12:30

Sample ID: 14C0200-06

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	3/8/14	3/10/14 20:19	OP

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0200-04 [GZA-3]	B091537	50.0	50.0	03/08/14
14C0200-05 [GZA-3 Dup]	B091537	50.0	50.0	03/08/14
14C0200-06 [MW-109D]	B091537	50.0	50.0	03/08/14

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0200-01 [MW-116D]	B091565	5	5.00	03/10/14
14C0200-02 [MW-116S]	B091565	5	5.00	03/10/14
14C0200-03 [MW-112]	B091565	5	5.00	03/10/14

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14C0200-03RE1 [MW-112]	B091652	0.1	5.00	03/10/14
14C0200-04 [GZA-3]	B091652	5	5.00	03/11/14
14C0200-06 [MW-109D]	B091652	5	5.00	03/11/14

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B091565 - SW-846 5030B

Blank (B091565-BLK1)

Prepared & Analyzed: 03/10/14

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							V-05
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							L-04
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							V-05
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							L-04, V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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	0.50	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 tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091565 - SW-846 5030B										
Blank (B091565-BLK1)										
Prepared & Analyzed: 03/10/14										
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							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	19.3		µg/L	25.0		77.2	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		µg/L	25.0		106	70-130			
LCS (B091565-BS1)										
Prepared & Analyzed: 03/10/14										
Acetone	68.3	50	µg/L	100		68.3 *	70-160			L-07 †
Acrylonitrile	9.98	5.0	µg/L	10.0		99.8	70-130			
tert-Amyl Methyl Ether (TAME)	9.41	0.50	µg/L	10.0		94.1	70-130			
Benzene	12.4	1.0	µg/L	10.0		124	70-130			
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromochloromethane	12.8	1.0	µg/L	10.0		128	70-130			
Bromodichloromethane	8.93	0.50	µg/L	10.0		89.3	70-130			
Bromoform	7.73	1.0	µg/L	10.0		77.3	70-130			V-05
Bromomethane	8.33	2.0	µg/L	10.0		83.3	40-160			†
2-Butanone (MEK)	87.7	20	µg/L	100		87.7	40-160			†
tert-Butyl Alcohol (TBA)	74.7	20	µg/L	100		74.7	40-160			†
n-Butylbenzene	9.56	1.0	µg/L	10.0		95.6	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.85	0.50	µg/L	10.0		98.5	70-130			
Carbon Disulfide	6.74	4.0	µg/L	10.0		67.4 *	70-130			L-04
Carbon Tetrachloride	8.99	5.0	µg/L	10.0		89.9	70-130			
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Chlorodibromomethane	8.22	0.50	µg/L	10.0		82.2	70-130			
Chloroethane	8.93	2.0	µg/L	10.0		89.3	70-130			V-05
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			
Chloromethane	7.96	2.0	µg/L	10.0		79.6	40-160			†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091565 - SW-846 5030B										
LCS (B091565-BS1)										
Prepared & Analyzed: 03/10/14										
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	5.86	5.0	µg/L	10.0		58.6 *	70-130			L-04, V-05
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	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	10.0	1.0	µg/L	10.0		100	70-130			
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
trans-1,4-Dichloro-2-butene	8.25	2.0	µg/L	10.0		82.5	70-130			
Dichlorodifluoromethane (Freon 12)	8.64	2.0	µg/L	10.0		86.4	40-160			†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloroethane	8.99	1.0	µg/L	10.0		89.9	70-130			
1,1-Dichloroethylene	8.88	1.0	µg/L	10.0		88.8	70-130			
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	40-130			†
1,1-Dichloropropene	11.0	2.0	µg/L	10.0		110	70-130			
cis-1,3-Dichloropropene	9.53	0.50	µg/L	10.0		95.3	70-130			
trans-1,3-Dichloropropene	8.63	0.50	µg/L	10.0		86.3	70-130			
Diethyl Ether	8.39	2.0	µg/L	10.0		83.9	70-130			
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103	70-130			
1,4-Dioxane	138	50	µg/L	100		138 *	40-130			L-02, V-16, V-20 †
Ethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130			
2-Hexanone (MBK)	83.3	10	µg/L	100		83.3	70-160			†
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130			
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130			
Methyl tert-Butyl Ether (MTBE)	9.46	1.0	µg/L	10.0		94.6	70-130			
Methylene Chloride	9.53	5.0	µg/L	10.0		95.3	70-130			
4-Methyl-2-pentanone (MIBK)	83.9	10	µg/L	100		83.9	70-160			†
Naphthalene	6.78	2.0	µg/L	10.0		67.8	40-130			V-05 †
n-Propylbenzene	11.7	1.0	µg/L	10.0		117	70-130			
Styrene	11.6	1.0	µg/L	10.0		116	70-130			
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111	70-130			
Tetrachloroethylene	12.5	1.0	µg/L	10.0		125	70-130			
Tetrahydrofuran	9.14	10	µg/L	10.0		91.4	70-130			
Toluene	11.6	1.0	µg/L	10.0		116	70-130			
1,2,3-Trichlorobenzene	8.08	5.0	µg/L	10.0		80.8	70-130			
1,2,4-Trichlorobenzene	7.41	1.0	µg/L	10.0		74.1	70-130			V-05
1,3,5-Trichlorobenzene	9.66	1.0	µg/L	10.0		96.6	70-130			
1,1,1-Trichloroethane	9.39	1.0	µg/L	10.0		93.9	70-130			
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
Trichloroethylene	11.7	1.0	µg/L	10.0		117	70-130			
Trichlorofluoromethane (Freon 11)	9.09	2.0	µg/L	10.0		90.9	70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.81	1.0	µg/L	10.0		88.1	70-130			
1,2,4-Trimethylbenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Vinyl Chloride	8.53	2.0	µg/L	10.0		85.3	40-160			†

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 B091565 - SW-846 5030B										
LCS (B091565-BS1)										
Prepared & Analyzed: 03/10/14										
m+p Xylene	22.1	2.0	µg/L	20.0		111	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	18.8		µg/L	25.0		75.3	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	27.5		µg/L	25.0		110	70-130			
LCS Dup (B091565-BS1)										
Prepared & Analyzed: 03/10/14										
Acetone	71.6	50	µg/L	100		71.6	70-160	4.79	25	†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130	1.98	25	
tert-Amyl Methyl Ether (TAME)	9.27	0.50	µg/L	10.0		92.7	70-130	1.50	25	
Benzene	11.8	1.0	µg/L	10.0		118	70-130	4.86	25	
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130	0.584	25	
Bromochloromethane	12.7	1.0	µg/L	10.0		127	70-130	0.392	25	
Bromodichloromethane	8.61	0.50	µg/L	10.0		86.1	70-130	3.65	25	
Bromoform	7.66	1.0	µg/L	10.0		76.6	70-130	0.910	25	V-05
Bromomethane	8.22	2.0	µg/L	10.0		82.2	40-160	1.33	25	†
2-Butanone (MEK)	89.6	20	µg/L	100		89.6	40-160	2.20	25	†
tert-Butyl Alcohol (TBA)	75.3	20	µg/L	100		75.3	40-160	0.880	25	†
n-Butylbenzene	9.01	1.0	µg/L	10.0		90.1	70-130	5.92	25	
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130	5.44	25	
tert-Butylbenzene	9.33	1.0	µg/L	10.0		93.3	70-130	6.13	25	
tert-Butyl Ethyl Ether (TBEE)	9.83	0.50	µg/L	10.0		98.3	70-130	0.203	25	
Carbon Disulfide	6.48	4.0	µg/L	10.0		64.8 *	70-130	3.93	25	L-04
Carbon Tetrachloride	8.32	5.0	µg/L	10.0		83.2	70-130	7.74	25	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.99	25	
Chlorodibromomethane	7.92	0.50	µg/L	10.0		79.2	70-130	3.72	25	
Chloroethane	8.56	2.0	µg/L	10.0		85.6	70-130	4.23	25	V-05
Chloroform	10.7	2.0	µg/L	10.0		107	70-130	2.59	25	
Chloromethane	7.78	2.0	µg/L	10.0		77.8	40-160	2.29	25	†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	2.70	25	
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	1.14	25	
1,2-Dibromo-3-chloropropane (DBCP)	5.93	5.0	µg/L	10.0		59.3 *	70-130	1.19	25	L-04, V-05
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130	0.180	25	
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	1.61	25	
1,2-Dichlorobenzene	9.62	1.0	µg/L	10.0		96.2	70-130	3.77	25	
1,3-Dichlorobenzene	9.83	1.0	µg/L	10.0		98.3	70-130	2.21	25	
1,4-Dichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130	2.12	25	
trans-1,4-Dichloro-2-butene	8.42	2.0	µg/L	10.0		84.2	70-130	2.04	25	
Dichlorodifluoromethane (Freon 12)	8.23	2.0	µg/L	10.0		82.3	40-160	4.86	25	†
1,1-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130	2.23	25	
1,2-Dichloroethane	8.85	1.0	µg/L	10.0		88.5	70-130	1.57	25	
1,1-Dichloroethylene	8.79	1.0	µg/L	10.0		87.9	70-130	1.02	25	
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	2.00	25	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	2.76	25	
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130	0.729	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	2.71	25	
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	40-130	5.60	25	†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130	5.98	25	
cis-1,3-Dichloropropene	9.26	0.50	µg/L	10.0		92.6	70-130	2.87	25	
trans-1,3-Dichloropropene	8.34	0.50	µg/L	10.0		83.4	70-130	3.42	25	
Diethyl Ether	8.88	2.0	µg/L	10.0		88.8	70-130	5.67	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130	1.66	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B091565 - SW-846 5030B

LCS Dup (B091565-BSD1)

Prepared & Analyzed: 03/10/14

1,4-Dioxane	140	50	µg/L	100		140 *	40-130	0.842	50	L-02, V-16, V-20 † ‡
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.77	25	
Hexachlorobutadiene	10.2	0.50	µg/L	10.0		102	70-130	5.71	25	
2-Hexanone (MBK)	83.7	10	µg/L	100		83.7	70-160	0.551	25	†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130	3.71	25	
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130	4.86	25	
Methyl tert-Butyl Ether (MTBE)	9.51	1.0	µg/L	10.0		95.1	70-130	0.527	25	
Methylene Chloride	8.83	5.0	µg/L	10.0		88.3	70-130	7.63	25	
4-Methyl-2-pentanone (MIBK)	85.4	10	µg/L	100		85.4	70-160	1.80	25	†
Naphthalene	6.99	2.0	µg/L	10.0		69.9	40-130	3.05	25	V-05 †
n-Propylbenzene	11.3	1.0	µg/L	10.0		113	70-130	3.04	25	
Styrene	11.3	1.0	µg/L	10.0		113	70-130	2.27	25	
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.30	25	
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130	1.52	25	
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	6.10	25	
Tetrahydrofuran	9.81	10	µg/L	10.0		98.1	70-130	7.07	25	
Toluene	11.2	1.0	µg/L	10.0		112	70-130	3.50	25	
1,2,3-Trichlorobenzene	8.19	5.0	µg/L	10.0		81.9	70-130	1.35	25	
1,2,4-Trichlorobenzene	7.36	1.0	µg/L	10.0		73.6	70-130	0.677	25	V-05
1,3,5-Trichlorobenzene	9.16	1.0	µg/L	10.0		91.6	70-130	5.31	25	
1,1,1-Trichloroethane	8.88	1.0	µg/L	10.0		88.8	70-130	5.58	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	0.351	25	
Trichloroethylene	11.3	1.0	µg/L	10.0		113	70-130	4.09	25	
Trichlorofluoromethane (Freon 11)	8.72	2.0	µg/L	10.0		87.2	70-130	4.15	25	
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130	0.481	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.82	1.0	µg/L	10.0		88.2	70-130	0.113	25	
1,2,4-Trimethylbenzene	9.37	1.0	µg/L	10.0		93.7	70-130	3.87	25	
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.16	25	
Vinyl Chloride	8.10	2.0	µg/L	10.0		81.0	40-160	5.17	25	†
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130	3.96	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	1.92	25	
Surrogate: 1,2-Dichloroethane-d4	18.8		µg/L	25.0		75.3	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	27.7		µg/L	25.0		111	70-130			

Batch B091652 - SW-846 5030B

Blank (B091652-BLK1)

Prepared: 03/11/14 Analyzed: 03/12/14

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							L-04
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							R-05, V-05, V-16
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B091652 - SW-846 5030B

Blank (B091652-BLK1)

Prepared: 03/11/14 Analyzed: 03/12/14

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-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	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 tert-Butyl Ether (MTBE)	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							V-16
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							

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 B091652 - SW-846 5030B										
Blank (B091652-BLK1)										
Prepared: 03/11/14 Analyzed: 03/12/14										
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.7		µg/L	25.0		94.8	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.6	70-130			
LCS (B091652-BS1)										
Prepared: 03/11/14 Analyzed: 03/12/14										
Acetone	74.6	50	µg/L	100		74.6	70-160			†
Acrylonitrile	7.61	5.0	µg/L	10.0		76.1	70-130			
tert-Amyl Methyl Ether (TAME)	7.97	0.50	µg/L	10.0		79.7	70-130			
Benzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromobenzene	9.47	1.0	µg/L	10.0		94.7	70-130			
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130			
Bromodichloromethane	9.96	0.50	µg/L	10.0		99.6	70-130			
Bromoform	10.8	1.0	µg/L	10.0		108	70-130			
Bromomethane	3.42	2.0	µg/L	10.0		34.2 *	40-160			L-04 †
2-Butanone (MEK)	81.8	20	µg/L	100		81.8	40-160			†
tert-Butyl Alcohol (TBA)	52.3	20	µg/L	100		52.3	40-160			R-05, V-05, V-16 †
n-Butylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
sec-Butylbenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
tert-Butylbenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.89	0.50	µg/L	10.0		88.9	70-130			
Carbon Disulfide	9.65	4.0	µg/L	10.0		96.5	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	9.20	1.0	µg/L	10.0		92.0	70-130			
Chlorodibromomethane	9.49	0.50	µg/L	10.0		94.9	70-130			
Chloroethane	8.73	2.0	µg/L	10.0		87.3	70-130			
Chloroform	9.56	2.0	µg/L	10.0		95.6	70-130			
Chloromethane	6.01	2.0	µg/L	10.0		60.1	40-160			†
2-Chlorotoluene	8.85	1.0	µg/L	10.0		88.5	70-130			
4-Chlorotoluene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.17	5.0	µg/L	10.0		91.7	70-130			
1,2-Dibromoethane (EDB)	9.92	0.50	µg/L	10.0		99.2	70-130			
Dibromomethane	9.91	1.0	µg/L	10.0		99.1	70-130			
1,2-Dichlorobenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
1,3-Dichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130			
1,4-Dichlorobenzene	9.32	1.0	µg/L	10.0		93.2	70-130			
trans-1,4-Dichloro-2-butene	10.2	2.0	µg/L	10.0		102	70-130			
Dichlorodifluoromethane (Freon 12)	7.93	2.0	µg/L	10.0		79.3	40-160			†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1-Dichloroethylene	8.87	1.0	µg/L	10.0		88.7	70-130			
cis-1,2-Dichloroethylene	9.73	1.0	µg/L	10.0		97.3	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091652 - SW-846 5030B										
LCS (B091652-BS1)										
					Prepared: 03/11/14 Analyzed: 03/12/14					
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	9.89	0.50	µg/L	10.0		98.9	70-130			
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130			†
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130			
cis-1,3-Dichloropropene	9.76	0.50	µg/L	10.0		97.6	70-130			
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
Diethyl Ether	8.14	2.0	µg/L	10.0		81.4	70-130			
Diisopropyl Ether (DIPE)	9.76	0.50	µg/L	10.0		97.6	70-130			
1,4-Dioxane	113	50	µg/L	100		113	40-130			V-16 †
Ethylbenzene	9.78	1.0	µg/L	10.0		97.8	70-130			
Hexachlorobutadiene	10.3	0.50	µg/L	10.0		103	70-130			
2-Hexanone (MBK)	87.2	10	µg/L	100		87.2	70-160			†
Isopropylbenzene (Cumene)	9.32	1.0	µg/L	10.0		93.2	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl tert-Butyl Ether (MTBE)	8.96	1.0	µg/L	10.0		89.6	70-130			
Methylene Chloride	8.17	5.0	µg/L	10.0		81.7	70-130			
4-Methyl-2-pentanone (MIBK)	87.5	10	µg/L	100		87.5	70-160			†
Naphthalene	9.19	2.0	µg/L	10.0		91.9	40-130			†
n-Propylbenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
Styrene	9.68	1.0	µg/L	10.0		96.8	70-130			
1,1,1,2-Tetrachloroethane	9.72	1.0	µg/L	10.0		97.2	70-130			
1,1,2,2-Tetrachloroethane	9.41	0.50	µg/L	10.0		94.1	70-130			
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Tetrahydrofuran	10.0	10	µg/L	10.0		100	70-130			V-16
Toluene	10.1	1.0	µg/L	10.0		101	70-130			
1,2,3-Trichlorobenzene	9.33	5.0	µg/L	10.0		93.3	70-130			
1,2,4-Trichlorobenzene	9.40	1.0	µg/L	10.0		94.0	70-130			
1,3,5-Trichlorobenzene	9.35	1.0	µg/L	10.0		93.5	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Trichlorofluoromethane (Freon 11)	8.16	2.0	µg/L	10.0		81.6	70-130			
1,2,3-Trichloropropane	9.31	2.0	µg/L	10.0		93.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130			
1,2,4-Trimethylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130			
1,3,5-Trimethylbenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
Vinyl Chloride	6.94	2.0	µg/L	10.0		69.4	40-160			†
m+p Xylene	19.0	2.0	µg/L	20.0		95.2	70-130			
o-Xylene	9.35	1.0	µg/L	10.0		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.7		µg/L	25.0		94.6	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		97.8	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B091652 - SW-846 5030B

LCS Dup (B091652-BSD1)

Prepared: 03/11/14 Analyzed: 03/12/14

Acetone	75.4	50	µg/L	100		75.4	70-160	1.07	25	†
Acrylonitrile	8.25	5.0	µg/L	10.0		82.5	70-130	8.07	25	
tert-Amyl Methyl Ether (TAME)	8.38	0.50	µg/L	10.0		83.8	70-130	5.02	25	
Benzene	9.85	1.0	µg/L	10.0		98.5	70-130	3.69	25	
Bromobenzene	9.40	1.0	µg/L	10.0		94.0	70-130	0.742	25	
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	4.73	25	
Bromodichloromethane	9.43	0.50	µg/L	10.0		94.3	70-130	5.47	25	
Bromoform	11.1	1.0	µg/L	10.0		111	70-130	2.83	25	
Bromomethane	3.55	2.0	µg/L	10.0		35.5 *	40-160	3.73	25	L-04 †
2-Butanone (MEK)	93.7	20	µg/L	100		93.7	40-160	13.6	25	†
tert-Butyl Alcohol (TBA)	77.3	20	µg/L	100		77.3	40-160	38.7 *	25	V-16, R-05, V-05 †
n-Butylbenzene	9.71	1.0	µg/L	10.0		97.1	70-130	2.74	25	
sec-Butylbenzene	9.22	1.0	µg/L	10.0		92.2	70-130	4.56	25	
tert-Butylbenzene	9.33	1.0	µg/L	10.0		93.3	70-130	4.30	25	
tert-Butyl Ethyl Ether (TBEE)	9.14	0.50	µg/L	10.0		91.4	70-130	2.77	25	
Carbon Disulfide	8.74	4.0	µg/L	10.0		87.4	70-130	9.90	25	
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130	2.23	25	
Chlorobenzene	8.92	1.0	µg/L	10.0		89.2	70-130	3.09	25	
Chlorodibromomethane	9.11	0.50	µg/L	10.0		91.1	70-130	4.09	25	
Chloroethane	8.46	2.0	µg/L	10.0		84.6	70-130	3.14	25	
Chloroform	9.45	2.0	µg/L	10.0		94.5	70-130	1.16	25	
Chloromethane	5.33	2.0	µg/L	10.0		53.3	40-160	12.0	25	†
2-Chlorotoluene	8.46	1.0	µg/L	10.0		84.6	70-130	4.51	25	
4-Chlorotoluene	9.27	1.0	µg/L	10.0		92.7	70-130	2.24	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101	70-130	9.36	25	
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130	2.69	25	
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130	2.39	25	
1,2-Dichlorobenzene	8.98	1.0	µg/L	10.0		89.8	70-130	2.31	25	
1,3-Dichlorobenzene	8.86	1.0	µg/L	10.0		88.6	70-130	2.78	25	
1,4-Dichlorobenzene	9.23	1.0	µg/L	10.0		92.3	70-130	0.970	25	
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130	2.52	25	
Dichlorodifluoromethane (Freon 12)	7.66	2.0	µg/L	10.0		76.6	40-160	3.46	25	†
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.72	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.496	25	
1,1-Dichloroethylene	8.69	1.0	µg/L	10.0		86.9	70-130	2.05	25	
cis-1,2-Dichloroethylene	9.54	1.0	µg/L	10.0		95.4	70-130	1.97	25	
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	3.62	25	
1,2-Dichloropropane	9.87	1.0	µg/L	10.0		98.7	70-130	3.09	25	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	2.20	25	
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130	1.85	25	†
1,1-Dichloropropene	10.6	2.0	µg/L	10.0		106	70-130	1.96	25	
cis-1,3-Dichloropropene	9.61	0.50	µg/L	10.0		96.1	70-130	1.55	25	
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130	2.56	25	
Diethyl Ether	8.39	2.0	µg/L	10.0		83.9	70-130	3.02	25	
Diisopropyl Ether (DIPE)	9.45	0.50	µg/L	10.0		94.5	70-130	3.23	25	
1,4-Dioxane	126	50	µg/L	100		126	40-130	11.0	50	V-16 † ‡
Ethylbenzene	9.61	1.0	µg/L	10.0		96.1	70-130	1.75	25	
Hexachlorobutadiene	10.3	0.50	µg/L	10.0		103	70-130	0.389	25	
2-Hexanone (MBK)	99.5	10	µg/L	100		99.5	70-160	13.2	25	†
Isopropylbenzene (Cumene)	9.03	1.0	µg/L	10.0		90.3	70-130	3.16	25	
p-Isopropyltoluene (p-Cymene)	9.81	1.0	µg/L	10.0		98.1	70-130	3.80	25	
Methyl tert-Butyl Ether (MTBE)	9.51	1.0	µg/L	10.0		95.1	70-130	5.96	25	

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 B091652 - SW-846 5030B										
LCS Dup (B091652-BSD1)										
					Prepared: 03/11/14 Analyzed: 03/12/14					
Methylene Chloride	7.81	5.0	µg/L	10.0		78.1	70-130	4.51	25	
4-Methyl-2-pentanone (MIBK)	98.6	10	µg/L	100		98.6	70-160	11.9	25	†
Naphthalene	10.7	2.0	µg/L	10.0		107	40-130	15.4	25	†
n-Propylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	1.67	25	
Styrene	9.40	1.0	µg/L	10.0		94.0	70-130	2.94	25	
1,1,1,2-Tetrachloroethane	9.42	1.0	µg/L	10.0		94.2	70-130	3.13	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	6.97	25	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	3.61	25	
Tetrahydrofuran	11.3	10	µg/L	10.0		113	70-130	12.4	25	V-16
Toluene	9.76	1.0	µg/L	10.0		97.6	70-130	3.03	25	
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107	70-130	13.7	25	
1,2,4-Trichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130	6.09	25	
1,3,5-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130	0.107	25	
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	3.78	25	
1,1,2-Trichloroethane	9.85	1.0	µg/L	10.0		98.5	70-130	1.91	25	
Trichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	5.43	25	
Trichlorofluoromethane (Freon 11)	7.64	2.0	µg/L	10.0		76.4	70-130	6.58	25	
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130	8.14	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.35	1.0	µg/L	10.0		93.5	70-130	7.12	25	
1,2,4-Trimethylbenzene	9.70	1.0	µg/L	10.0		97.0	70-130	1.43	25	
1,3,5-Trimethylbenzene	9.31	1.0	µg/L	10.0		93.1	70-130	2.44	25	
Vinyl Chloride	6.17	2.0	µg/L	10.0		61.7	40-160	11.7	25	†
m+p Xylene	18.1	2.0	µg/L	20.0		90.4	70-130	5.06	25	
o-Xylene	9.14	1.0	µg/L	10.0		91.4	70-130	2.27	25	
Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		96.1	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.8	70-130			

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B091537 - SW-846 3005A Dissolved										
Blank (B091537-BLK1)				Prepared: 03/08/14 Analyzed: 03/10/14						
Lead	ND	0.010	mg/L							
LCS (B091537-BS1)				Prepared: 03/08/14 Analyzed: 03/10/14						
Lead	2.07	0.010	mg/L	2.00		103	80-120			
LCS Dup (B091537-BSD1)				Prepared: 03/08/14 Analyzed: 03/10/14						
Lead	2.08	0.010	mg/L	2.00		104	80-120	0.531	20	

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
- 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-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C in Water</i>	
Lead	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8260C in Water</i>	
Acetone	CT,NY,ME,NH,VA,NJ
Acrylonitrile	CT,NY,ME,NH,VA,NJ
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA,NJ
Benzene	CT,NY,ME,NH,VA,NJ
Bromochloromethane	NY,ME,NH,VA,NJ
Bromodichloromethane	CT,NY,ME,NH,VA,NJ
Bromoform	CT,NY,ME,NH,VA,NJ
Bromomethane	CT,NY,ME,NH,VA,NJ
2-Butanone (MEK)	CT,NY,ME,NH,VA,NJ
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA,NJ
n-Butylbenzene	NY,ME,VA,NJ
sec-Butylbenzene	NY,ME,VA,NJ
tert-Butylbenzene	NY,ME,VA,NJ
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA,NJ
Carbon Disulfide	CT,NY,ME,NH,VA,NJ
Carbon Tetrachloride	CT,NY,ME,NH,VA,NJ
Chlorobenzene	CT,NY,ME,NH,VA,NJ
Chlorodibromomethane	CT,NY,ME,NH,VA,NJ
Chloroethane	CT,NY,ME,NH,VA,NJ
Chloroform	CT,NY,ME,NH,VA,NJ
Chloromethane	CT,NY,ME,NH,VA,NJ
2-Chlorotoluene	NY,ME,NH,VA,NJ
4-Chlorotoluene	NY,ME,NH,VA,NJ
Dibromomethane	NY,ME,NH,VA,NJ
1,2-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,4-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA,NJ
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA,NJ
1,1-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,2-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,1-Dichloroethylene	CT,NY,ME,NH,VA,NJ
cis-1,2-Dichloroethylene	NY,ME,NJ
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA,NJ
1,2-Dichloropropane	CT,NY,ME,NH,VA,NJ
1,3-Dichloropropane	NY,ME,VA,NJ
2,2-Dichloropropane	NY,ME,NH,VA,NJ
1,1-Dichloropropene	NY,ME,NH,VA,NJ
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
Diisopropyl Ether (DIPE)	NY,ME,NH,VA,NJ
Ethylbenzene	CT,NY,ME,NH,VA,NJ
Hexachlorobutadiene	CT,NY,ME,NH,VA,NJ
2-Hexanone (MBK)	CT,NY,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Isopropylbenzene (Cumene)	NY,ME,VA,NJ
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA,NJ
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA,NJ
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ
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	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014



CON-test
ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Rev 04.05.12

Page ____ of ____

Company Name: CB&I Environmental

Telephone: 617-589-4030

Address: 150 Royall Street

Project # 130274

Canton, MA

Client PO# 835493

Attention: Edward Vandoren

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Project Location: Providence, RI

Fax #

Sampled By: Paul Ledoux

Email: Edward.Vandoren@CBI.com

Project Proposal Provided? (for billing purposes)
 Yes No

Format
 PDF EXCEL GIS
 OTHER GISKEY format
 "Enhanced Data Package"

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	*Container Code	EPA 8260B (VOCs)	Dissolved Lead	ANALYSIS REQUESTED	# of Containers	** Preservation	*** Container Code
		Beginning Date/Time	Ending Date/Time										
01	MW-116D	3.6.14	0900			GW		3					
02	MW-116S	3.6.14	0930			GW		3					
03	MW-112	3.6.14	1000			GW		3					
04	GZA-3	3.6.14	1130			GW		3					
05	GZA-3 Dup	3.6.14	1130			GW		1					
06	MW-109D	3.6.14	1230			GW		3					

Comments: Please email GISKEY formatted EDD & PDF to:
Catherine.Joe@CBI.com and Edward.Vandoren@CBI.com.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High, M - Medium, L - Low, C - Clean, U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 3.6.14 1330

Received by: (signature) [Signature] Date/Time: 3.7.14 1615

Relinquished by: (signature) [Signature] Date/Time: 3.7.14 1758

Received by: (signature) [Signature] Date/Time: 3.7.14 1450

Turnaround 7-Day 10-Day Other

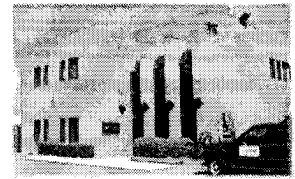
RUSH 12-Hr 14-Hr 172-Hr 14-Day

Detection Limit Requirements: Massachusetts: _____ Connecticut: _____ Other: _____

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID # _____
 NELAC & AIHA-LAP, LLC Accredited
 WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



Sample Receipt Checklist

CLIENT NAME: CB&I Environmental RECEIVED BY: CC DATE: 3-7-14

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 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°C

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: 19

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 No N/A

Containers received at Con-Test			
	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	3	Non-ConTest Container	
40 mL Vial - type listed below	15	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: _____

40 mL vials: # HCl <u>15</u> # Methanol _____	Time and Date Frozen:
Doc# 277 # Bisulfate _____ # DI Water _____	
Rev. 4 August 2013 # Thiosulfate _____ Unpreserved _____	

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

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	T/F/NA		
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 requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	T		
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		

Doc #277 Rev. 4 August 2013

Who notified of False statements?
 Log-In Technician Initials: CC

Date/Time:
 Date/Time: 3.7.14 14:50