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

December 12, 2016 Project 130274

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

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

Dear Mr. Martella:

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

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

This status report describes groundwater monitoring activities conducted at the site by CB&I. This report includes results of groundwater sampling and analysis conducted in June, July, August, September, October and November of 2016.

## FIELD ACTIVITIES

### Limited VOC Sampling Activities June, July, August, September and October 2016

Limited groundwater gauging and sampling was conducted on June 10, July 7, August 1, September 13, and October 4, 2016. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for the gauging of these wells are included in **Table 2**.

## Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on June 10, July 7, August 1, September 13, and October 4, 2016. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

### Groundwater Sampling Activities November 2016

The monitoring wells that comprise the groundwater monitoring program were monitored for field parameters and sampled for analysis on November 1 and November 2, 2016.

## Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on November 1 and 2, 2016. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and LNAPL thickness measurements were also collected. Elevation and field parameter results are presented in **Table 1**.

## Groundwater Sampling

On November 1 and 2, 2016 groundwater samples were collected for analysis for VOCs (EPA Method 8260C) from 22 monitoring wells within and around the treatment area, including the compliance wells. One duplicate sample was collected from MW-101S (MW-101S DUP) for VOC analysis. One duplicate sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015 C) from monitoring well CW-6. Samples were also collected for lead analysis (EPA Method 6020A-B) from monitoring wells MW-109D and GZA-3. One duplicate sample was also collected from MW-109D (MW-109D DUP) for lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

## SUMMARY OF ANALYTICAL DATA

A summary of the analytical data associated with the groundwater sampling conducted on June 10, July 7, August 1, September 13, October 4, and November 1 and 2, 2016 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. Measured PCE concentrations were below the treatment goal of 7,700 µg/L in all wells sampled during these sampling events except for two wells. On November 1, 2016 both the primary and duplicate samples collected from MW-101S had PCE concentrations of 24,000 µg/L and MW-201D had a concentration of 8,800 µg/L. During this reporting period the reported PCE concentrations in well MW-112 were: 1,400D µg/L on June 10, 2,000 µg/L on July 7, 2016, 2,900 µg/L on August 1, 2016, 670 µg/L on September 13, 2016, 500 µg/L on October 4, 2016 and 420 µg/L on November 1, 2016.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedances of the compliance standard occurred for the Adelaide Avenue well MW-112 for PCE on June 10, July 7, August 1, September 13, October 4, and November 1, 2016 and MW-209D on November 1, 2016. (Note that due to sample dilution by the laboratory, the analytical reporting limits for vinyl chloride for wells MW-112 and MW-209D were above the compound specific compliance standard for all of the sampling results collected.)

**FUTURE ACTIVITIES**

Future limited sampling will be conducted in December 2016, January, February, March, and April 2017 and the full sampling event will be conducted in May 2017.

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

Sincerely,

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

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

Enclosures:

Table 1 – Summary Field Parameters
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Analytical Results Detected Compounds – June 2016 – November 2016
Table 4 – Groundwater Analytical Results in Compliance Wells – June 2016 – November 2016

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

Attachment A - Laboratory Analytical Reports

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

**CERTIFICATIONS**

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

I, Brian J. Cote, as an authorized representative of CB&I Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated June 14, 2016, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Brian J. Cote
Senior Project Manager

12/13/16
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

12/9/16
Date:

# TABLES

**Table 1**
**Summary Field Parameters**
**June 2016 - November 2016**

**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 | 11/1/2016 | 5.73 | 13.75 | 0.622 | 0.33 | -10.1 |
| MW-101S | 11/1/2016 | 5.72 | 15.19 | 0.685 | 0.63 | 68.2 |
| MW-112 | 11/1/2016 | 5.62 | 13.6 | 1.405 | 5.41 | 167.2 |
| MW-116D | 11/2/2016 | 5.52 | 13.95 | 0.359 | 3.23 | 153.8 |
| MW-116S | 11/2/2016 | 5.56 | 14.11 | 0.176 | 6.04 | 139.3 |
| MW-201D | 11/1/2016 | 5.82 | 14.25 | 0.708 | 0.3 | 139.5 |
| MW-202D | 11/1/2016 | 5.66 | 14.8 | 0.371 | 0.77 | 144.2 |
| MW-202S | 11/1/2016 | 5.44 | 15.38 | 0.596 | 0.32 | 150.9 |
| MW-207D | 11/1/2016 | 5.68 | 15.27 | 0.06 | 2.58 | 135 |
| MW-207S | 11/1/2016 | 5.73 | 15.55 | 0.781 | 1.5 | 136.9 |
| MW-209D | 11/1/2016 | 5.81 | 13.83 | 0.572 | 0.25 | 87.8 |
| MW-216D | 11/2/2016 | 5.75 | 14.71 | 0.505 | 2.47 | -7.1 |
| MW-216S | 11/2/2016 | 5.76 | 15.9 | 0.879 | 0.95 | -50.8 |
| MW-217D | 11/2/2016 | 5.68 | 14.59 | 1.205 | 0.6 | 25.6 |
| MW-217S | 11/2/2016 | 5.72 | 15.41 | 3.129 | 0.89 | -38 |
| MW-218D | 11/1/2016 | 5.64 | 13.92 | 0.772 | 0.23 | 179.6 |
| MW-218S | 11/1/2016 | 5.64 | 14.73 | 1.297 | 0.59 | 173.2 |

**Notes:**

Notes:

C° = degrees Celsius

mS/cm = millisiemens per centimeter

mg/L = milligrams per liter

mV = milli volts

**TABLE 2**
**GROUNDWATER ELEVATION DATA**
**(06/10/16 - 11/02/16)**

*12/07/16*

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

| Location | Date | Reference Elevation (Feet) | Depth to Water (Feet) | Depth to LNAPL (Feet) | LNAPL Thickness (Feet) | Groundwater Elevation (Feet) | Notes |
|---|---|---|---|---|---|---|---|
| CW-01 | 11/01/16 | 99.52 | 26.77 | -- | -- | 72.75 | DTB = 54.30' |
| CW-02 | 11/01/16 | 98.86 | 25.96 | -- | -- | 72.90 | DTB = 54.40' |
| CW-06 | 11/01/16 | 99.52 | 25.37 | -- | -- | 74.15 | DTB = 33.24' |
| GZA-3 | 11/01/16 | NA | 17.63 | -- | -- | NA | DTB - 21.93' |
| MW-101D | 11/01/16 | 98.91 | 26.11 | -- | -- | 72.80 | DTB = 46.03' |
| MW-101S | 11/01/16 | 98.90 | 26.14 | -- | -- | 72.76 | DTB = 28.28' |
| MW-109D | 11/01/16 | NA | 19.61 | -- | -- | NA | DTB = 74.60' |
| MW-112 | 06/10/16 | 100.63 | 26.78 | -- | -- | 73.85 | DTB = 34.75' |
| MW-112 | 07/07/16 | 100.63 | 27.15 | -- | -- | 73.48 | DTB = 34.76' |
| MW-112 | 08/01/16 | 100.63 | 27.23 | -- | -- | 73.40 | DTB = 35.10' |
| MW-112 | 09/13/16 | 100.63 | 27.80 | -- | -- | 72.83 | DTB = 35.07' |
| MW-112 | 10/04/16 | 100.63 | 25.83 | -- | -- | 74.80 | DTB = 35.50' |
| MW-112 | 11/01/16 | 100.63 | 27.86 | -- | -- | 72.77 | DTB = 31.44' |
| MW-116D | 06/10/16 | 98.92 | 24.97 | -- | -- | 73.95 | DTB = 44.42' |
| MW-116D | 07/07/16 | 98.92 | 25.35 | -- | -- | 73.57 | DTB = 44.45' |
| MW-116D | 08/01/16 | 98.92 | 25.57 | -- | -- | 73.35 | DTB = 44.40 |
| MW-116D | 09/13/16 | 98.92 | 26.10 | -- | -- | 72.82 | DTB = 44.35' |
| MW-116D | 10/04/16 | 98.92 | 25.18 | -- | -- | 73.74 | DTB = 45.80' |
| MW-116D | 11/02/16 | 98.92 | 26.15 | -- | -- | 72.77 | DTB = 44.23' |
| MW-116S | 06/10/16 | 99.40 | 25.32 | -- | -- | 74.08 | DTB = 26.71' |
| MW-116S | 07/07/16 | 99.40 | 25.85 | -- | -- | 73.55 | DTB = 28.76' |
| MW-116S | 08/01/16 | 99.40 | 25.94 | -- | -- | 73.46 | DTB = 28.40' |
| MW-116S | 09/13/16 | 99.40 | 26.45 | -- | -- | 72.95 | DTB = 28.38' |
| MW-116S | 10/04/16 | 99.40 | 25.58 | -- | -- | 73.82 | DTB = 29.30' |
| MW-116S | 11/02/16 | 99.40 | 26.60 | -- | -- | 72.80 | DTB = 28.51' |
| MW-201D | 11/01/16 | 98.80 | 25.99 | -- | -- | 72.81 | DTB = 47.33' |
| MW-202D | 11/01/16 | 98.17 | 25.40 | -- | -- | 72.77 | DTB = 47.38' |
| MW-202S | 11/01/16 | 98.06 | 25.25 | -- | -- | 72.81 | DTB = 38.04' |
| MW-207D | 11/01/16 | 98.18 | 25.41 | -- | -- | 72.77 | DTB = 50.90' |
| MW-207S | 11/01/16 | 98.28 | 25.47 | -- | -- | 72.81 | DTB = 37.55' |
| MW-209D | 11/01/16 | 99.90 | 27.62 | -- | -- | 72.28 | DTB = 62.23' |
| MW-216D | 11/02/16 | 98.69 | 26.60 | -- | -- | 72.09 | DTB = 39.30' |
| MW-216S | 11/02/16 | 99.58 | 26.60 | -- | <0.01 | 72.98 | DTB = 29.62' |
| MW-217D | 11/02/16 | 98.65 | 25.78 | -- | -- | 72.87 | DTB = 46.76' |
| MW-217S | 11/02/16 | 98.71 | 25.80 | -- | -- | 72.91 | DTB = 26.23' |
| MW-218D | 11/01/16 | 99.67 | 26.89 | -- | -- | 72.78 | DTB = 46.69' |
| MW-218S | 11/01/16 | 99.61 | 26.83 | -- | -- | 72.78 | DTB = 29.50' |
| MW-220S | 11/01/16 | 99.41 | 26.48 | -- | -- | 72.93 | |

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

**TABLE 3**
**Groundwater Analytical Results Detected Compounds**
**June 2016 - November 2016**

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

| CONSTITUENT | CW-01 11/1/2016 Primary | CW-02 11/1/2016 Primary | CW-06 11/2/2016 Primary | CW-06 11/2/2016 Duplicate 1 | GZA-3 11/2/2016 Primary | MW-101D 11/1/2016 Primary | MW-101S 11/1/2016 Primary | MW-101S 11/1/2016 Duplicate 1 | MW-109D 11/2/2016 Primary | MW-109D 11/2/2016 Duplicate 1 | MW-112 6/10/2016 Primary |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs (ug/L)** | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| 1,3,5-Trimethylbenzene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| 4-Isopropyltoluene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| Chloroform | <80 | <2.0 | --- | --- | <2.0 | <2.0J | <500 | <500 | <2.0 | --- | <8.0 |
| cis-1,2-Dichloroethene | 180 | <1.0 | --- | --- | 5.5 | 400D | <250 | <250 | <1.0 | --- | <4.0 |
| Ethylbenzene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| Naphthalene | <80 | <2.0 | --- | --- | <2.0 | <2.0 | <500 | <500 | <2.0 | --- | <8.0 |
| tert-AmylMethyl Ether | <20 | <0.50 | --- | --- | <0.50 | <0.50 | <120 | <120 | <0.50 | --- | <2.0 |
| Tetrachloroethene | <40 | <1.0 | --- | --- | <1.0 | 420D | 24000 | 24000 | <1.0 | --- | 1400D |
| Toluene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| trans-1,2-Dichloroethene | <40J | <1.0 | --- | --- | <1.0 | 1.1 | <250 | <250 | <1.0 | --- | <4.0 |
| Trichloroethene | 3900 | <1.0 | --- | --- | <1.0 | 26 | <250 | <250 | <1.0J | --- | 5.8 |
| Vinyl chloride | <80 | <2.0 | --- | --- | 17 | <2.0J | <500 | <500 | <2.0 | --- | <8.0 |
| m/p-xylene | <80 | <2.0 | --- | --- | <2.0 | <2.0 | <500 | <500 | <2.0 | --- | <8.0 |
| o-Xylene | <40 | <1.0 | --- | --- | <1.0 | <1.0 | <250 | <250 | <1.0 | --- | <4.0 |
| Xylene (total) | <80 | <2.0 | --- | --- | <2.0 | <2.0 | <500 | <500 | <2.0 | --- | <8.0 |
| **TPH (mg/L)** | | | | | | | | | | | |
| Fuel oil no. 2 | --- | --- | 4.7 | 5.1 | --- | --- | --- | --- | --- | --- | --- |
| **Lead (ug/L)** | | | | | | | | | | | |
| Dissolved Lead | --- | --- | --- | --- | <5.0J | --- | --- | --- | <5.0 | <5.0 | --- |

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
-- = Not analyzed for
D = Result reported from a diluted sample
J = Result is an estimated value

**TABLE 3**
**Groundwater Analytical Results Detected Compounds**
**June 2016 - November 2016**

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

| CONSTITUENT | MW-112 7/7/2016 Primary | MW-112 8/1/2016 Primary | MW-112 9/13/2016 Primary | MW-112 10/4/2016 Primary | MW-112 11/1/2016 Primary | MW-116D 6/10/2016 Primary | MW-116D 7/7/2016 Primary | MW-116D 8/1/2016 Primary | MW-116D 9/13/2016 Primary | MW-116D 10/4/2016 Primary | MW-116D 11/2/2016 Primary |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs (ug/L)** | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4-Isopropyltoluene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | <40 | <40 | <40 | <10 | <10 | <2.0 | <2.0 | <2.0J | <2.0 | <2.0J | <2.0 |
| cis-1,2-Dichloroethene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0J |
| Ethylbenzene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Naphthalene | <40 | <40 | <40 | <10 | <10 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| tert-AmylMethyl Ether | <10 | <10 | <10 | <2.5 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethene | 2000 | 2900 | 670 | 500 | 420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Toluene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichloroethene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | <20J | <20J | <20J | 7.4 | 9.2 | <1.0 | <1.0J | <1.0J | <1.0 | <1.0J | 2.5 |
| Vinyl chloride | <40 | <40 | <40 | <10 | <10 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| m/p-xylene | <40 | <40 | <40 | <10 | <10 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| o-Xylene | <20 | <20 | <20 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Xylene (total) | <40 | <40 | <40 | <10 | <10 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| **TPH (mg/L)** | | | | | | | | | | | |
| Fuel oil no. 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lead (ug/L)** | | | | | | | | | | | |
| Dissolved Lead | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
-- = Not analyzed for
D = Result reported from a diluted sample
J = Result is an estimated value

**TABLE 3**
**Groundwater Analytical Results Detected Compounds**
**June 2016 - November 2016**

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

| CONSTITUENT | MW-116S 6/10/2016 Primary | MW-116S 7/7/2016 Primary | MW-116S 8/1/2016 Primary | MW-116S 9/13/2016 Primary | MW-116S 10/4/2016 Primary | MW-116S 11/2/2016 Primary | MW-201D 11/1/2016 Primary | MW-202D 11/1/2016 Primary | MW-202S 11/1/2016 Primary | MW-207D 11/1/2016 Primary | MW-207S 11/1/2016 Primary |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs (ug/L)** | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 12 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.7 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4-Isopropyltoluene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <100 | <2.0 | <2.0 | <2.0 | <2.0 |
| cis-1,2-Dichloroethene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 150 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.2 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| Naphthalene | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 19 | <100 | <2.0 | <2.0 | <2.0 | <2.0 |
| tert-AmylMethyl Ether | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <25 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0J | 8800 | 6.8 | 23 | 1.8 | 7.8 |
| Toluene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichloroethene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0J | 260 | <1.0 | 2.7 | <1.0 | 2.6 |
| Vinyl chloride | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0J | <100 | <2.0 | <2.0 | <2.0 | <2.0 |
| m/p-xylene | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 4.6 | <100 | <2.0 | <2.0 | <2.0 | <2.0 |
| o-Xylene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 10 | <50 | <1.0 | <1.0 | <1.0 | <1.0 |
| Xylene (total) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 15 | <100 | <2.0 | <2.0 | <2.0 | <2.0 |
| **TPH (mg/L)** | | | | | | | | | | | |
| Fuel oil no. 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lead (ug/L)** | | | | | | | | | | | |
| Dissolved Lead | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
-- = Not analyzed for
D = Result reported from a diluted sample
J = Result is an estimated value

**TABLE 3**
**Groundwater Analytical Results Detected Compounds**
**June 2016 - November 2016**

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

| CONSTITUENT | MW-209D 11/1/2016 Primary | MW-216D 11/2/2016 Primary | MW-216S 11/2/2016 Primary | MW-217D 11/2/2016 Primary | MW-217S 11/2/2016 Primary | MW-218D 11/1/2016 Primary | MW-218S 11/1/2016 Primary |
|---|---|---|---|---|---|---|---|
| **VOCs (ug/L)** | | | | | | | |
| 1,2,4-Trimethylbenzene | <25 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | <25 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| 4-Isopropyltoluene | <25 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| Chloroform | <50 | <2.0 | <2.0 | <2.0 | <4.0 | 13 | <2.0 |
| cis-1,2-Dichloroethene | <25J | <1.0 | <1.0 | 41 | <2.0J | 1.6 | <1.0 |
| Ethylbenzene | <25 | <1.0 | <1.0 | <1.0 | <2.0J | <1.0 | <1.0 |
| Naphthalene | <50 | <2.0 | <2.0 | <2.0 | <4.0 | <2.0 | <2.0 |
| tert-AmylMethyl Ether | 21 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <0.50 |
| Tetrachloroethene | 2400 | <1.0 | <1.0 | <1.0 | <2.0J | 410D | 57 |
| Toluene | <25 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| trans-1,2-Dichloroethene | <25 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| Trichloroethene | 140 | <1.0J | <1.0 | 8.8 | <2.0J | 17 | <1.0J |
| Vinyl chloride | <50 | <2.0 | <2.0 | <2.0 | <4.0J | <2.0 | <2.0 |
| m/p-xylene | <50 | <2.0 | <2.0 | <2.0 | <4.0J | <2.0 | <2.0 |
| o-Xylene | <25 | <1.0 | <1.0 | <1.0 | <2.0J | <1.0 | <1.0 |
| Xylene (total) | <50 | <2.0 | <2.0 | <2.0 | <4.0J | <2.0 | <2.0 |
| **TPH (mg/L)** | | | | | | | |
| Fuel oil no. 2 | --- | --- | --- | --- | --- | --- | --- |
| **Lead (ug/L)** | | | | | | | |
| Dissolved Lead | --- | --- | --- | --- | --- | --- | --- |

Notes: < = Less than the laboratory reporting limit
µg/L = Micrograms per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
-- = Not analyzed for
D = Result reported from a diluted sample
J = Result is an estimated value

**TABLE 4**
**Groundwater Analytical Results**
**June 2016 - November 2016**

Former Gorham Manufacturing Facility
Providence, Rhode Island

| Mashapaug Pond Compliance Wells | | | |
|---|---|---|---|
| **Sample ID** | **MW-109D** | **MW-109D** | **Compliance** |
| **Date Collected** | **11/2/2016** | **11/2/2016** | **Standard[1]** |
| **CONSTITUENT** | **Primary** | **Duplicate 1** | |
| **Metals (mg/L)** | | | |
| Lead | <0.0050 | <0.0050 | 0.03 |
| **VOCs (µg/L)** | | | |
| 1,1-Dichloroethane | <1.0 | --- | 50,000 |
| 1,1-Dichloroethene | <1.0 | --- | 50,000 |
| cis-1,2-Dichloroethene | <1.0 | --- | 50,000 |
| Methyltert-butylether | <1.0 | --- | 50,000 |
| Tetrachloroethene | <1.0 | --- | 5,000 |
| Trichloroethene | <1.0J | --- | 20,000 |
| Vinyl chloride | <2.0 | --- | 1,200 |

| TPH Remediation Area Well | | | |
|---|---|---|---|
| **Sample ID** | **CW-06** | **CW-06** | **Compliance** |
| **Date Collected** | **11/2/2016** | **11/2/2016** | **Standard[1]** |
| **CONSTITUENT** | **Primary** | **Duplicate** | |
| **TPH (mg/L)** | | | |
| TPH | 4.7 | 5.1 | 20 |

| Sewer Interceptor Area Wells | | | |
|---|---|---|---|
| **Sample ID** | **CW-01** | **CW-02** | **Compliance** |
| **Date Collected** | **11/1/2016** | **11/1/2016** | **Standard[2]** |
| **CONSTITUENT** | **Primary** | **Primary** | |
| **VOCs (µg/L)** | | | |
| 1,1-Dichloroethane | <40 | <1.0 | 120,000 |
| 1,1-Dichloroethene | <40J | <1.0 | 23,000 |
| cis-1,2-Dichloroethene | 180 | <1.0 | 69,000 |
| trans-1,2-Dichloroethene | <40J | <1.0 | 79,000 |
| Tetrachloroethene | <40 | <1.0 | NS |
| Trichloroethene | 3900 | <1.0 | 87,000 |

| Adelaide Avenue Wells | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **MW-112** | **MW-112** | **MW-112** | **MW-112** | **MW-112** | **MW-112** | **MW-209D** | **MW-218S** | **Compliance** |
| **Date Collected** | **6/10/2016** | **7/7/2016** | **8/1/2016** | **9/13/2016** | **10/4/2016** | **11/1/2016** | **11/1/2016** | **11/1/2016** | **Standard[3]** |
| **CONSTITUENT** | **Primary** | **Primary** | **Primary** | **Primary** | **Primary** | **Primary** | **Primary** | **Primary** | |
| **VOCs (µg/L)** | | | | | | | | | |
| 1,1-Dichloroethane | <4.0 | <20 | <20 | <20 | <5.0 | <5.0 | <25 | <1.0 | 2,400 |
| 1,1-Dichloroethene | <4.0 | <20 | <20 | <20 | <5.0 | <5.0 | <25J | <1.0 | 7 |
| cis-1,2-Dichloroethene | <4.0 | <20 | <20 | <20 | <5.0 | <5.0 | <25J | <1.0 | 1,900 |
| Methyltert-butylether | <4.0 | <20 | <20 | <20 | <5.0 | <5.0 | <25 | <1.0 | 5,000 |
| Tetrachloroethene | 1400D | 2000 | 2900 | 670 | 500 | 420 | 2400 | 57 | 150 |
| Trichloroethene | 5.8 | <20J | <20J | <20J | 7.4 | 9.2 | 140 | <1.0J | 540 |
| Vinyl chloride | <8.0 | <40 | <40 | <40 | <10 | <10 | <50 | <2.0 | 2 |

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

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

# FIGURES

LEGEND

MW-101S MONITORING WELL

N

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

STOP & SHOP SUPERMARKET

PROPOSED FUELING FACILITY

FUTURE DEVELOPMENT

80' COMBINED SEWER LINE

PROPERTY LINE ALONG CHAIN LINK FENCE

AMTRAK RIGHT OF WAY - 66' WIDE

NAIL FOUND

NAIL FOUND

DOWNING

30.00'

0 80 160

SCALE IN FEET

1" 1/2" 0" 1"

File: N:\dwg\Gorham\cntgf-02.dwg Layout: SP User: James.ODonnell Apr 02, 2013 - 11:05am

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

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

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

LEGEND

MW-101S — MONITORING WELL

SB-2 — SOIL BORING

04IS01 — INJECTION WELL

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

0 40 80
SCALE IN FEET

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

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

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

1" 1/2" 0" 1"

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# ATTACHMENT A

# LABORATORY REPORTS

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

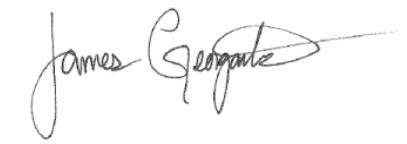
June 27, 2016

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

Project Location: Textron, Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16F0670

Enclosed are results of analyses for samples received by the laboratory on June 13, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

# Table of Contents

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

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

REPORT DATE: 6/27/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16F0670

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

PROJECT LOCATION: Textron, Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-112 | 16F0670-01 | Ground Water | | SW-846 8260C | |
| MW-116D | 16F0670-02 | Ground Water | | SW-846 8260C | |
| MW-116S | 16F0670-03 | Ground Water | | SW-846 8260C | |

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

**CASE NARRATIVE SUMMARY**

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

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

**SW-846 8260C**

**Qualifications:**

**B-05**

Data is not affected by elevated level in blank since sample(s) result is "Not Detected".

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

**Methylene Chloride**
B151603-BLK1

**L-02**

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

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

**Carbon Disulfide**
B152221-BS1, B152221-BSD1

**Cyclohexane**
B152221-BS1, B152221-BSD1

**Methyl Acetate**
B152221-BS1, B152221-BSD1

**Methylene Chloride**
B151603-BS1, B151603-BSD1, B152221-BS1, B152221-BSD1

**L-07**

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

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

**Carbon Disulfide**
B151603-BS1

**Cyclohexane**
B151603-BS1

**Methyl Acetate**
B151603-BS1

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16F0670-01[MW-112]

**V-05**

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

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

**1,4-Dioxane**
B152221-BLK1, B152221-BS1, B152221-BSD1

**Dichlorodifluoromethane (Freon 1**
16F0670-01[MW-112], 16F0670-02[MW-116D], 16F0670-03[MW-116S], B151603-BLK1, B151603-BS1, B151603-BSD1, B152221-BLK1, B152221-BS1, B152221-BSD1

**V-16**

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

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

**1,4-Dioxane**
B152221-BLK1, B152221-BS1, B152221-BSD1

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

**V-20**

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

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

**1,4-Dioxane**
B151603-BS1, B151603-BSD1

**2-Butanone (MEK)**
B151603-BS1, B151603-BSD1

**2-Hexanone (MBK)**
B151603-BS1, B151603-BSD1

**4-Methyl-2-pentanone (MIBK)**
B151603-BS1, B151603-BSD1, B152221-BS1, B152221-BSD1

**Acetone**
B151603-BS1, B151603-BSD1

**Bromochloromethane**
B151603-BS1, B151603-BSD1, B152221-BS1, B152221-BSD1

**Diisopropyl Ether (DIPE)**
B151603-BS1, B151603-BSD1

**Methyl Acetate**
B151603-BS1, B151603-BSD1, B152221-BS1, B152221-BSD1

**Methylene Chloride**
B152221-BS1, B152221-BSD1

**Tetrahydrofuran**
B151603-BS1, B151603-BSD1

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

Lisa A. Worthington
Project Manager

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-112** | Sampled: 6/10/2016 06:30

**Sample ID: 16F0670-01**

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 | 6/16/16 | 6/23/16 19:26 | LBD |
| Acrylonitrile | ND | 20 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| tert-Amyl Methyl Ether (TAME) | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Benzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Bromobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Bromochloromethane | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Bromodichloromethane | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Bromoform | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Bromomethane | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 2-Butanone (MEK) | ND | 80 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| tert-Butyl Alcohol (TBA) | ND | 80 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| n-Butylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| sec-Butylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| tert-Butylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| tert-Butyl Ethyl Ether (TBEE) | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Carbon Disulfide | ND | 16 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Carbon Tetrachloride | ND | 20 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Chlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Chlorodibromomethane | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Chloroethane | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Chloroform | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Chloromethane | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 2-Chlorotoluene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 4-Chlorotoluene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 20 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Dibromomethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2-Dichlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,3-Dichlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,4-Dichlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| trans-1,4-Dichloro-2-butene | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Dichlorodifluoromethane (Freon 12) | ND | 8.0 | µg/L | 4 | V-05 | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1-Dichloroethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2-Dichloroethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1-Dichloroethylene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| cis-1,2-Dichloroethylene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| trans-1,2-Dichloroethylene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2-Dichloropropane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,3-Dichloropropane | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 2,2-Dichloropropane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1-Dichloropropene | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| cis-1,3-Dichloropropene | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| trans-1,3-Dichloropropene | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Diethyl Ether | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-112** | Sampled: 6/10/2016 06:30

**Sample ID: 16F0670-01**

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 | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,4-Dioxane | ND | 200 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Ethylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Hexachlorobutadiene | ND | 2.4 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 2-Hexanone (MBK) | ND | 40 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Isopropylbenzene (Cumene) | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| p-Isopropyltoluene (p-Cymene) | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Methyl Acetate | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Methyl tert-Butyl Ether (MTBE) | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Methyl Cyclohexane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Methylene Chloride | ND | 20 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 4-Methyl-2-pentanone (MIBK) | ND | 40 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Naphthalene | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| n-Propylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Styrene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1,1,2-Tetrachloroethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Tetrachloroethylene | 1400 | 100 | µg/L | 100 | | SW-846 8260C | 6/24/16 | 6/24/16 16:43 | CMR |
| Tetrahydrofuran | ND | 40 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Toluene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2,3-Trichlorobenzene | ND | 20 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2,4-Trichlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,3,5-Trichlorobenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1,1-Trichloroethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1,2-Trichloroethane | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Trichloroethylene | 5.8 | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Trichlorofluoromethane (Freon 11) | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2,3-Trichloropropane | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,2,4-Trimethylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| 1,3,5-Trimethylbenzene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| Vinyl Chloride | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| m+p Xylene | ND | 8.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |
| o-Xylene | ND | 4.0 | µg/L | 4 | | SW-846 8260C | 6/16/16 | 6/23/16 19:26 | LBD |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | | 6/23/16 19:26 |
| 1,2-Dichloroethane-d4 | 118 | 70-130 | | 6/24/16 16:43 |
| Toluene-d8 | 94.4 | 70-130 | | 6/24/16 16:43 |
| Toluene-d8 | 92.0 | 70-130 | | 6/23/16 19:26 |
| 4-Bromofluorobenzene | 96.8 | 70-130 | | 6/23/16 19:26 |
| 4-Bromofluorobenzene | 86.9 | 70-130 | | 6/24/16 16:43 |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-116D** | Sampled: 6/10/2016 07:20

**Sample ID: 16F0670-02**

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 | 6/16/16 | 6/23/16 18:34 | LBD |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Bromochloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-116D** | Sampled: 6/10/2016 07:20

**Sample ID: 16F0670-02**

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 | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 18:34 | LBD |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | | 6/23/16 18:34 |
| Toluene-d8 | 94.5 | 70-130 | | 6/23/16 18:34 |
| 4-Bromofluorobenzene | 92.5 | 70-130 | | 6/23/16 18:34 |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-116S** | Sampled: 6/10/2016 08:15

**Sample ID: 16F0670-03**

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 | 6/16/16 | 6/23/16 19:00 | LBD |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Bromochloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |

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Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16F0670

Date Received: 6/13/2016

**Field Sample #: MW-116S** | Sampled: 6/10/2016 08:15

**Sample ID: 16F0670-03**

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 | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 6/16/16 | 6/23/16 19:00 | LBD |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 117 | 70-130 | | 6/23/16 19:00 |
| Toluene-d8 | 92.8 | 70-130 | | 6/23/16 19:00 |
| 4-Bromofluorobenzene | 92.2 | 70-130 | | 6/23/16 19:00 |

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## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16F0670-01 [MW-112] | B151603 | 1.25 | 5.00 | 06/16/16 |
| 16F0670-02 [MW-116D] | B151603 | 5 | 5.00 | 06/16/16 |
| 16F0670-03 [MW-116S] | B151603 | 5 | 5.00 | 06/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16F0670-01RE1 [MW-112] | B152221 | 0.05 | 5.00 | 06/24/16 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B151603 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B151603-BLK1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 2.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| Cyclohexane | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | V-05 |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B151603 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B151603-BLK1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | | B-05 | |
| 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 | *27.6* | | µg/L | 25.0 | | 110 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *23.4* | | µg/L | 25.0 | | 93.5 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *23.4* | | µg/L | 25.0 | | 93.4 | | 70-130 | | | | |
| **LCS (B151603-BS1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | | |
| Acetone | 125 | 50 | µg/L | 100 | | 125 | | 70-160 | | | V-20 | † |
| Acrylonitrile | 12.1 | 5.0 | µg/L | 10.0 | | 121 | | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 9.87 | 0.50 | µg/L | 10.0 | | 98.7 | | 70-130 | | | | |
| Benzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| Bromobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Bromochloromethane | 13.0 | 2.0 | µg/L | 10.0 | | 130 | | 70-130 | | | V-20 | |
| Bromodichloromethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Bromoform | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Bromomethane | 6.55 | 2.0 | µg/L | 10.0 | | 65.5 | | 40-160 | | | | † |
| 2-Butanone (MEK) | 130 | 20 | µg/L | 100 | | 130 | | 40-160 | | | V-20 | † |
| tert-Butyl Alcohol (TBA) | 100 | 20 | µg/L | 100 | | 100 | | 40-160 | | | | † |
| n-Butylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| sec-Butylbenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| tert-Butylbenzene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.4 | 0.50 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| **Carbon Disulfide** | 14.2 | 4.0 | µg/L | 10.0 | | **142** | * | 70-130 | | | L-07 | |
| Carbon Tetrachloride | 11.0 | 5.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Chlorobenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| Chlorodibromomethane | 10.4 | 0.50 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| Chloroethane | 11.7 | 2.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B151603 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B151603-BS1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | | |
| Chloroform | 10.7 | 2.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| Chloromethane | 9.04 | 2.0 | µg/L | 10.0 | | 90.4 | | 40-160 | | | | † |
| 2-Chlorotoluene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 4-Chlorotoluene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| **Cyclohexane** | 14.0 | 5.0 | µg/L | 10.0 | | **140** | * | 70-130 | | | L-07 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 9.94 | 5.0 | µg/L | 10.0 | | 99.4 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 10.1 | 0.50 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| Dibromomethane | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 11.3 | 2.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 6.09 | 2.0 | µg/L | 10.0 | | 60.9 | | 40-160 | | | V-05 | † |
| 1,1-Dichloroethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,2-Dichloroethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| 1,2-Dichloropropane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,3-Dichloropropane | 9.75 | 0.50 | µg/L | 10.0 | | 97.5 | | 70-130 | | | | |
| 2,2-Dichloropropane | 9.67 | 1.0 | µg/L | 10.0 | | 96.7 | | 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 | 9.75 | 0.50 | µg/L | 10.0 | | 97.5 | | 70-130 | | | | |
| Diethyl Ether | 10.8 | 2.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 12.7 | 0.50 | µg/L | 10.0 | | 127 | | 70-130 | | | V-20 | |
| 1,4-Dioxane | 129 | 50 | µg/L | 100 | | 129 | | 40-130 | | | V-20 | † |
| Ethylbenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| Hexachlorobutadiene | 10.9 | 0.60 | µg/L | 10.0 | | 109 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 127 | 10 | µg/L | 100 | | 127 | | 70-160 | | | V-20 | † |
| Isopropylbenzene (Cumene) | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| **Methyl Acetate** | 14.1 | 1.0 | µg/L | 10.0 | | **141** | * | 70-130 | | | L-07, V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 9.89 | 1.0 | µg/L | 10.0 | | 98.9 | | 70-130 | | | | |
| Methyl Cyclohexane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| **Methylene Chloride** | 13.5 | 5.0 | µg/L | 10.0 | | **135** | * | 70-130 | | | L-02 | |
| 4-Methyl-2-pentanone (MIBK) | 132 | 10 | µg/L | 100 | | 132 | | 70-160 | | | V-20 | † |
| Naphthalene | 8.74 | 2.0 | µg/L | 10.0 | | 87.4 | | 40-130 | | | | † |
| n-Propylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| Styrene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 9.68 | 0.50 | µg/L | 10.0 | | 96.8 | | 70-130 | | | | |
| Tetrachloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Tetrahydrofuran | 11.5 | 10 | µg/L | 10.0 | | 115 | | 70-130 | | | V-20 | |
| Toluene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 9.67 | 5.0 | µg/L | 10.0 | | 96.7 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Trichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 9.77 | 2.0 | µg/L | 10.0 | | 97.7 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B151603 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B151603-BS1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | |
| 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) | 12.2 | 1.0 | µg/L | 10.0 | | 122 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Vinyl Chloride | 8.86 | 2.0 | µg/L | 10.0 | | 88.6 | 40-160 | | | | † |
| m+p Xylene | 20.1 | 2.0 | µg/L | 20.0 | | 100 | 70-130 | | | | |
| o-Xylene | 9.98 | 1.0 | µg/L | 10.0 | | 99.8 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.9* | | µg/L | 25.0 | | 104 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.2* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.3* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| **LCS Dup (B151603-BSD1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | |
| Acetone | 133 | 50 | µg/L | 100 | | 133 | 70-160 | 5.50 | 25 | V-20 | † |
| Acrylonitrile | 11.4 | 5.0 | µg/L | 10.0 | | 114 | 70-130 | 6.47 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 10.1 | 0.50 | µg/L | 10.0 | | 101 | 70-130 | 2.40 | 25 | | |
| Benzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 2.08 | 25 | | |
| Bromobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 5.61 | 25 | | |
| Bromochloromethane | 12.4 | 2.0 | µg/L | 10.0 | | 124 | 70-130 | 4.33 | 25 | V-20 | |
| Bromodichloromethane | 11.0 | 0.50 | µg/L | 10.0 | | 110 | 70-130 | 1.92 | 25 | | |
| Bromoform | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 1.70 | 25 | | |
| Bromomethane | 6.90 | 2.0 | µg/L | 10.0 | | 69.0 | 40-160 | 5.20 | 25 | | † |
| 2-Butanone (MEK) | 126 | 20 | µg/L | 100 | | 126 | 40-160 | 2.92 | 25 | V-20 | † |
| tert-Butyl Alcohol (TBA) | 102 | 20 | µg/L | 100 | | 102 | 40-160 | 1.93 | 25 | | † |
| n-Butylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 0.388 | 25 | | |
| sec-Butylbenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 1.81 | 25 | | |
| tert-Butylbenzene | 9.82 | 1.0 | µg/L | 10.0 | | 98.2 | 70-130 | 1.92 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | 70-130 | 0.707 | 25 | | |
| Carbon Disulfide | 12.6 | 4.0 | µg/L | 10.0 | | 126 | 70-130 | 11.9 | 25 | | |
| Carbon Tetrachloride | 10.8 | 5.0 | µg/L | 10.0 | | 108 | 70-130 | 1.84 | 25 | | |
| Chlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 1.45 | 25 | | |
| Chlorodibromomethane | 10.6 | 0.50 | µg/L | 10.0 | | 106 | 70-130 | 1.81 | 25 | | |
| Chloroethane | 10.1 | 2.0 | µg/L | 10.0 | | 101 | 70-130 | 15.2 | 25 | | |
| Chloroform | 10.5 | 2.0 | µg/L | 10.0 | | 105 | 70-130 | 1.79 | 25 | | |
| Chloromethane | 8.52 | 2.0 | µg/L | 10.0 | | 85.2 | 40-160 | 5.92 | 25 | | † |
| 2-Chlorotoluene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 2.42 | 25 | | |
| 4-Chlorotoluene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.43 | 25 | | |
| Cyclohexane | 12.0 | 5.0 | µg/L | 10.0 | | 120 | 70-130 | 15.6 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 8.97 | 5.0 | µg/L | 10.0 | | 89.7 | 70-130 | 10.3 | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.1 | 0.50 | µg/L | 10.0 | | 111 | 70-130 | 9.56 | 25 | | |
| Dibromomethane | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | 16.1 | 25 | | |
| 1,2-Dichlorobenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 2.73 | 25 | | |
| 1,3-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 2.57 | 25 | | |
| 1,4-Dichlorobenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 1.60 | 25 | | |
| trans-1,4-Dichloro-2-butene | 11.8 | 2.0 | µg/L | 10.0 | | 118 | 70-130 | 4.58 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 6.34 | 2.0 | µg/L | 10.0 | | 63.4 | 40-160 | 4.02 | 25 | V-05 | † |
| 1,1-Dichloroethane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | 3.65 | 25 | | |
| 1,2-Dichloroethane | 12.3 | 1.0 | µg/L | 10.0 | | 123 | 70-130 | 2.81 | 25 | | |
| 1,1-Dichloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 0.351 | 25 | | |
| cis-1,2-Dichloroethylene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 2.10 | 25 | | |
| trans-1,2-Dichloroethylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 6.78 | 25 | | |
| 1,2-Dichloropropane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 1.16 | 25 | | |
| 1,3-Dichloropropane | 10.4 | 0.50 | µg/L | 10.0 | | 104 | 70-130 | 6.07 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B151603 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B151603-BSD1)** | | | | Prepared: 06/16/16 Analyzed: 06/23/16 | | | | | | | | |
| 2,2-Dichloropropane | 9.09 | 1.0 | µg/L | 10.0 | | 90.9 | | 40-130 | 6.18 | 25 | | † |
| 1,1-Dichloropropene | 10.4 | 2.0 | µg/L | 10.0 | | 104 | | 70-130 | 0.952 | 25 | | |
| cis-1,3-Dichloropropene | 9.31 | 0.50 | µg/L | 10.0 | | 93.1 | | 70-130 | 7.23 | 25 | | |
| trans-1,3-Dichloropropene | 9.48 | 0.50 | µg/L | 10.0 | | 94.8 | | 70-130 | 2.81 | 25 | | |
| Diethyl Ether | 11.0 | 2.0 | µg/L | 10.0 | | 110 | | 70-130 | 1.83 | 25 | | |
| Diisopropyl Ether (DIPE) | 12.8 | 0.50 | µg/L | 10.0 | | 128 | | 70-130 | 0.471 | 25 | V-20 | |
| 1,4-Dioxane | 96.4 | 50 | µg/L | 100 | | 96.4 | | 40-130 | 28.6 | 50 | V-20 | † ‡ |
| Ethylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 1.88 | 25 | | |
| Hexachlorobutadiene | 11.1 | 0.60 | µg/L | 10.0 | | 111 | | 70-130 | 2.09 | 25 | | |
| 2-Hexanone (MBK) | 129 | 10 | µg/L | 100 | | 129 | | 70-160 | 1.90 | 25 | V-20 | † |
| Isopropylbenzene (Cumene) | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | 2.07 | 25 | | |
| p-Isopropyltoluene (p-Cymene) | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 1.61 | 25 | | |
| Methyl Acetate | 12.1 | 1.0 | µg/L | 10.0 | | 121 | | 70-130 | 15.5 | 25 | V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | 2.79 | 25 | | |
| Methyl Cyclohexane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 1.06 | 25 | | |
| **Methylene Chloride** | 14.1 | 5.0 | µg/L | 10.0 | | **141** | * | 70-130 | 4.06 | 25 | L-02 | |
| 4-Methyl-2-pentanone (MIBK) | 134 | 10 | µg/L | 100 | | 134 | | 70-160 | 1.76 | 25 | V-20 | † |
| Naphthalene | 8.90 | 2.0 | µg/L | 10.0 | | 89.0 | | 40-130 | 1.81 | 25 | | † |
| n-Propylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 0.286 | 25 | | |
| Styrene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 3.62 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 6.02 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 9.78 | 0.50 | µg/L | 10.0 | | 97.8 | | 70-130 | 1.03 | 25 | | |
| Tetrachloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 4.44 | 25 | | |
| Tetrahydrofuran | 11.4 | 10 | µg/L | 10.0 | | 114 | | 70-130 | 0.871 | 25 | V-20 | |
| Toluene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 1.13 | 25 | | |
| 1,2,3-Trichlorobenzene | 10.4 | 5.0 | µg/L | 10.0 | | 104 | | 70-130 | 6.89 | 25 | | |
| 1,2,4-Trichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 0.849 | 25 | | |
| 1,3,5-Trichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 2.73 | 25 | | |
| 1,1,1-Trichloroethane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 3.46 | 25 | | |
| 1,1,2-Trichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 3.62 | 25 | | |
| Trichloroethylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 2.29 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 9.30 | 2.0 | µg/L | 10.0 | | 93.0 | | 70-130 | 4.93 | 25 | | |
| 1,2,3-Trichloropropane | 10.3 | 2.0 | µg/L | 10.0 | | 103 | | 70-130 | 1.37 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 12.6 | 1.0 | µg/L | 10.0 | | 126 | | 70-130 | 3.14 | 25 | | |
| 1,2,4-Trimethylbenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 1.29 | 25 | | |
| 1,3,5-Trimethylbenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 0.276 | 25 | | |
| Vinyl Chloride | 8.20 | 2.0 | µg/L | 10.0 | | 82.0 | | 40-160 | 7.74 | 25 | | † |
| m+p Xylene | 20.3 | 2.0 | µg/L | 20.0 | | 102 | | 70-130 | 1.29 | 25 | | |
| o-Xylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 7.98 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.4* | | µg/L | 25.0 | | 105 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.5* | | µg/L | 25.0 | | 98.2 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.4* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B152221 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B152221-BLK1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Benzene | 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 | | | | | | | |
| 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 | | | | | | | |
| Cyclohexane | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 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 | | | | | | | |
| 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 | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | V-05, V-16 |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | 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 | | | | | | | |
| 1,1,1-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B152221 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B152221-BLK1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *28.7* | | µg/L | 25.0 | | 115 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.1* | | µg/L | 25.0 | | 96.4 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *22.6* | | µg/L | 25.0 | | 90.3 | | 70-130 | | | | |
| **LCS (B152221-BS1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | | | |
| Acetone | 121 | 50 | µg/L | 100 | | 121 | | 70-160 | | | | † |
| Benzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| **Bromochloromethane** | 16.1 | 1.0 | µg/L | 10.0 | | **161** | * | 70-130 | | | V-20 | |
| Bromodichloromethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Bromoform | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Bromomethane | 6.29 | 2.0 | µg/L | 10.0 | | 62.9 | | 40-160 | | | | † |
| 2-Butanone (MEK) | 124 | 20 | µg/L | 100 | | 124 | | 40-160 | | | | † |
| **Carbon Disulfide** | 14.2 | 4.0 | µg/L | 10.0 | | **142** | * | 70-130 | | | L-02 | |
| Carbon Tetrachloride | 10.8 | 5.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Chlorobenzene | 9.72 | 1.0 | µg/L | 10.0 | | 97.2 | | 70-130 | | | | |
| Chlorodibromomethane | 11.1 | 0.50 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Chloroethane | 12.0 | 2.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| Chloroform | 10.3 | 2.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| Chloromethane | 8.89 | 2.0 | µg/L | 10.0 | | 88.9 | | 40-160 | | | | † |
| **Cyclohexane** | 13.8 | 5.0 | µg/L | 10.0 | | **138** | * | 70-130 | | | L-02 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 7.93 | 5.0 | µg/L | 10.0 | | 79.3 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 9.37 | 0.50 | µg/L | 10.0 | | 93.7 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 9.66 | 1.0 | µg/L | 10.0 | | 96.6 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 5.38 | 2.0 | µg/L | 10.0 | | 53.8 | | 40-160 | | | V-05 | † |
| 1,1-Dichloroethane | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | | | | |
| 1,2-Dichloroethane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| 1,2-Dichloropropane | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 9.14 | 0.50 | µg/L | 10.0 | | 91.4 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 9.78 | 0.50 | µg/L | 10.0 | | 97.8 | | 70-130 | | | | |
| 1,4-Dioxane | 95.1 | 50 | µg/L | 100 | | 95.1 | | 40-130 | | | V-05, V-16 | † |
| Ethylbenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 133 | 10 | µg/L | 100 | | 133 | | 70-160 | | | | † |
| Isopropylbenzene (Cumene) | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| **Methyl Acetate** | 14.3 | 1.0 | µg/L | 10.0 | | **143** | * | 70-130 | | | L-02, V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 9.08 | 1.0 | µg/L | 10.0 | | 90.8 | | 70-130 | | | | |
| Methyl Cyclohexane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| **Methylene Chloride** | 14.7 | 5.0 | µg/L | 10.0 | | **147** | * | 70-130 | | | L-02, V-20 | |
| 4-Methyl-2-pentanone (MIBK) | 137 | 10 | µg/L | 100 | | 137 | | 70-160 | | | V-20 | † |
| Styrene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 8.80 | 0.50 | µg/L | 10.0 | | 88.0 | | 70-130 | | | | |
| Tetrachloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| Toluene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 9.26 | 5.0 | µg/L | 10.0 | | 92.6 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 9.64 | 1.0 | µg/L | 10.0 | | 96.4 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 9.92 | 1.0 | µg/L | 10.0 | | 99.2 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |

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

**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B152221 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B152221-BS1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | | | |
| Trichloroethylene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Vinyl Chloride | 8.57 | 2.0 | µg/L | 10.0 | | 85.7 | | 40-160 | | | | † |
| m+p Xylene | 19.9 | 2.0 | µg/L | 20.0 | | 99.4 | | 70-130 | | | | |
| o-Xylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.3* | | µg/L | 25.0 | | 105 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.7* | | µg/L | 25.0 | | 98.8 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.1* | | µg/L | 25.0 | | 96.4 | | 70-130 | | | | |
| **LCS Dup (B152221-BSD1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | | | |
| Acetone | 117 | 50 | µg/L | 100 | | 117 | | 70-160 | 3.40 | 25 | | † |
| Benzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | 0.470 | 25 | | |
| **Bromochloromethane** | 14.0 | 1.0 | µg/L | 10.0 | | **140** | * | 70-130 | 14.0 | 25 | V-20 | |
| Bromodichloromethane | 11.2 | 0.50 | µg/L | 10.0 | | 112 | | 70-130 | 3.36 | 25 | | |
| Bromoform | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 3.26 | 25 | | |
| Bromomethane | 7.02 | 2.0 | µg/L | 10.0 | | 70.2 | | 40-160 | 11.0 | 25 | | † |
| 2-Butanone (MEK) | 125 | 20 | µg/L | 100 | | 125 | | 40-160 | 0.442 | 25 | | † |
| **Carbon Disulfide** | 13.8 | 4.0 | µg/L | 10.0 | | **138** | * | 70-130 | 2.79 | 25 | L-02 | |
| Carbon Tetrachloride | 10.7 | 5.0 | µg/L | 10.0 | | 107 | | 70-130 | 0.373 | 25 | | |
| Chlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 8.57 | 25 | | |
| Chlorodibromomethane | 11.3 | 0.50 | µg/L | 10.0 | | 113 | | 70-130 | 1.34 | 25 | | |
| Chloroethane | 11.8 | 2.0 | µg/L | 10.0 | | 118 | | 70-130 | 1.18 | 25 | | |
| Chloroform | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | 5.47 | 25 | | |
| Chloromethane | 9.82 | 2.0 | µg/L | 10.0 | | 98.2 | | 40-160 | 9.94 | 25 | | † |
| **Cyclohexane** | 15.5 | 5.0 | µg/L | 10.0 | | **155** | * | 70-130 | 11.8 | 25 | L-02 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 9.69 | 5.0 | µg/L | 10.0 | | 96.9 | | 70-130 | 20.0 | 25 | | |
| 1,2-Dibromoethane (EDB) | 9.77 | 0.50 | µg/L | 10.0 | | 97.7 | | 70-130 | 4.18 | 25 | | |
| 1,2-Dichlorobenzene | 9.90 | 1.0 | µg/L | 10.0 | | 99.0 | | 70-130 | 2.45 | 25 | | |
| 1,3-Dichlorobenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 3.59 | 25 | | |
| 1,4-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | 0.0962 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 5.00 | 2.0 | µg/L | 10.0 | | 50.0 | | 40-160 | 7.32 | 25 | V-05 | † |
| 1,1-Dichloroethane | 12.1 | 1.0 | µg/L | 10.0 | | 121 | | 70-130 | 4.64 | 25 | | |
| 1,2-Dichloroethane | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | 3.69 | 25 | | |
| 1,1-Dichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | 1.65 | 25 | | |
| cis-1,2-Dichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 0.521 | 25 | | |
| trans-1,2-Dichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 0.871 | 25 | | |
| 1,2-Dichloropropane | 13.0 | 1.0 | µg/L | 10.0 | | 130 | | 70-130 | 11.9 | 25 | | |
| cis-1,3-Dichloropropene | 9.45 | 0.50 | µg/L | 10.0 | | 94.5 | | 70-130 | 3.34 | 25 | | |
| trans-1,3-Dichloropropene | 10.2 | 0.50 | µg/L | 10.0 | | 102 | | 70-130 | 3.91 | 25 | | |
| 1,4-Dioxane | 88.9 | 50 | µg/L | 100 | | 88.9 | | 40-130 | 6.75 | 50 | V-05, V-16 | † ‡ |
| Ethylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 7.27 | 25 | | |
| 2-Hexanone (MBK) | 138 | 10 | µg/L | 100 | | 138 | | 70-160 | 3.80 | 25 | | † |
| Isopropylbenzene (Cumene) | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 5.73 | 25 | | |
| **Methyl Acetate** | 13.9 | 1.0 | µg/L | 10.0 | | **139** | * | 70-130 | 2.83 | 25 | L-02, V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 9.41 | 1.0 | µg/L | 10.0 | | 94.1 | | 70-130 | 3.57 | 25 | | |
| Methyl Cyclohexane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 6.08 | 25 | | |
| **Methylene Chloride** | 15.0 | 5.0 | µg/L | 10.0 | | **150** | * | 70-130 | 2.08 | 25 | L-02, V-20 | |
| 4-Methyl-2-pentanone (MIBK) | 140 | 10 | µg/L | 100 | | 140 | | 70-160 | 2.61 | 25 | V-20 | † |
| Styrene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 4.33 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 9.08 | 0.50 | µg/L | 10.0 | | 90.8 | | 70-130 | 3.13 | 25 | | |
| Tetrachloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 3.57 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B152221 - SW-846 5030B** | | | | | | | | | | |
| **LCS Dup (B152221-BSD1)** | | | | Prepared & Analyzed: 06/24/16 | | | | | | |
| Toluene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 5.07 | 25 | |
| 1,2,3-Trichlorobenzene | 9.13 | 5.0 | µg/L | 10.0 | | 91.3 | 70-130 | 1.41 | 25 | |
| 1,2,4-Trichlorobenzene | 9.82 | 1.0 | µg/L | 10.0 | | 98.2 | 70-130 | 1.85 | 25 | |
| 1,1,1-Trichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 6.44 | 25 | |
| 1,1,2-Trichloroethane | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 2.65 | 25 | |
| Trichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 4.59 | 25 | |
| Trichlorofluoromethane (Freon 11) | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | 0.276 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 1.83 | 25 | |
| Vinyl Chloride | 9.55 | 2.0 | µg/L | 10.0 | | 95.5 | 40-160 | 10.8 | 25 | † |
| m+p Xylene | 21.0 | 2.0 | µg/L | 20.0 | | 105 | 70-130 | 5.48 | 25 | |
| o-Xylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 4.26 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.3* | | µg/L | 25.0 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.7* | | µg/L | 25.0 | | 103 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.6* | | µg/L | 25.0 | | 98.2 | 70-130 | | | |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| B-05 | Data is not affected by elevated level in blank since sample(s) result is "Not Detected". |
| L-02 | Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. |
| L-07 | Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria. |
| RL-11 | Elevated reporting limit due to high concentration of target compounds. |
| V-05 | Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. |
| V-16 | Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. |
| V-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Water*** | |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |

# CHAIN OF CUSTODY RECORD

16F0670
Rev 04.05.12

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



Company Name: CB&I Environmental
Telephone: 617-589-6175
Address: 150 Royall Street
Project # 130274
Canton, MA 02021
Client PO# 835493
Attention: Brian Cote
Project Location: Textron, Providence, RI
Sampled By: DANIEL C. LEARY

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: Brian.Cote@cbi.com
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER GISKey format
○ "Enhanced Data Package"

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | ***Container Code | ANALYSIS REQUESTED: EPA 8260B (VOCs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-112 | 0630 | 6/10/16 | | ✓ | GW | U | 3 | H | V | |
| 02 | MW-116D | 0720 | 6/10/16 | | ✓ | ↓ | ↓ | 3 | H | V | |
| 03 | MW-116S | 0815 | 6/10/16 | | ✓ | ↓ | ↓ | 3 | H | V | |
| | | | | | | ↓ | ↓ | | | | |
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*Dissolved Metals*
○ 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 = soil/solid
SL= sludge
O = other _____

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

Comments:

| | | |
|---|---|---|
| Relinquished by: (signature) | | Date/Time: 6/10/16 1400 |
| Received by: (signature) | | Date/Time: 6/13/16 9:50 |
| Relinquished by: (signature) | | Date/Time: 6/13/16 4:25 |
| Received by: (signature) | | Date/Time: 6/13/16 1625 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



Table of Contents

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

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** CB&I Environmental **RECEIVED BY:** CMK **DATE:** 6/13/16

1) **Was the chain(s) of custody relinquished and signed?** **Yes** ✓ **No** ____ **No COC Incl.**
2) **Does the chain agree with the samples?** **Yes** ✓ **No** ____
If not, explain:
3) **Are all the samples in good condition?** **Yes** ✓ **No** ____
If not, explain:
4) **How were the samples received:**

On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.6°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:** logn

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

8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** ✓
9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** ✓
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** ✓

## Containers received at Con-Test

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

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

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | 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 | 5.6°C |
| 6) COC is filled out in ink and legible. | T | |
| 7) COC is filled out with all pertinent information. | T | |
| 8) Field Sampler's name present on COC. | T | |
| 9) There are no discrepancies between the sample IDs on the container and the COC. | T | |
| 10) Samples are received within Holding Time. | T | |
| 11) Sample containers have legible labels. | T | |
| 12) Containers are not broken or leaking. | T | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | T | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | NA | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | T | |
| 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:** CMC **Date/Time:** ~~6/1/16~~ CMC 6/13/16 1625

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

July 19, 2016

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

Project Location: Textron, Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16G0267

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

Sincerely,

James M. Georgantas
Project Manager

# Table of Contents

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

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

REPORT DATE: 7/19/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16G0267

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

PROJECT LOCATION: Textron, Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-112 | 16G0267-01 | Ground Water | | SW-846 8260C | |
| MW-116D | 16G0267-02 | Ground Water | | SW-846 8260C | |
| MW-116S | 16G0267-03 | Ground Water | | SW-846 8260C | |

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**CASE NARRATIVE SUMMARY**

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

**SW-846 8260C**

**Qualifications:**

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16G0267-01[MW-112]

**V-05**

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

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

**1,2,3-Trichlorobenzene**
16G0267-01[MW-112], 16G0267-02[MW-116D], 16G0267-03[MW-116S], B153849-BLK1, B153849-BS1, B153849-BSD1

**1,2-Dibromo-3-chloropropane (DB**
16G0267-01[MW-112], 16G0267-02[MW-116D], 16G0267-03[MW-116S], B153849-BLK1, B153849-BS1, B153849-BSD1

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

Lisa A. Worthington
Project Manager

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-112** | Sampled: 7/7/2016 07:00

**Sample ID: 16G0267-01**

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 | 1000 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Acrylonitrile | ND | 100 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Benzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Bromobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Bromochloromethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Bromodichloromethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Bromoform | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Bromomethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 2-Butanone (MEK) | ND | 400 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 400 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| n-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| sec-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| tert-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Carbon Disulfide | ND | 80 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Carbon Tetrachloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Chlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Chlorodibromomethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Chloroethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Chloroform | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Chloromethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 2-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 4-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 100 | µg/L | 20 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Dibromomethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,3-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,4-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| cis-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| trans-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2-Dichloropropane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,3-Dichloropropane | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 2,2-Dichloropropane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1-Dichloropropene | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| cis-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| trans-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Diethyl Ether | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-112** | Sampled: 7/7/2016 07:00

**Sample ID: 16G0267-01**

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 | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,4-Dioxane | ND | 1000 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Ethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Hexachlorobutadiene | ND | 12 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 2-Hexanone (MBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Isopropylbenzene (Cumene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Methyl Acetate | ND | 100 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Methyl Cyclohexane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Methylene Chloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Naphthalene | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| n-Propylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Styrene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Tetrachloroethylene | 2000 | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Tetrahydrofuran | ND | 200 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Toluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2,3-Trichlorobenzene | ND | 100 | µg/L | 20 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2,4-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,3,5-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1,1-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1,2-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Trichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2,3-Trichloropropane | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,2,4-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| 1,3,5-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| Vinyl Chloride | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| m+p Xylene | ND | 40 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |
| o-Xylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 7/18/16 | 7/18/16 18:16 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 91.2 | 70-130 | | 7/18/16 18:16 |
| Toluene-d8 | 98.3 | 70-130 | | 7/18/16 18:16 |
| 4-Bromofluorobenzene | 104 | 70-130 | | 7/18/16 18:16 |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-116D** | Sampled: 7/7/2016 08:00

**Sample ID: 16G0267-02**

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 | 7/18/16 | 7/18/16 17:20 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Bromoform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-116D** | Sampled: 7/7/2016 08:00

**Sample ID: 16G0267-02**

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 | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:20 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90.2 | 70-130 | | | 7/18/16 17:20 |
| Toluene-d8 | 97.6 | 70-130 | | | 7/18/16 17:20 |
| 4-Bromofluorobenzene | 102 | 70-130 | | | 7/18/16 17:20 |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-116S** | Sampled: 7/7/2016 08:45

**Sample ID: 16G0267-03**

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 | 7/18/16 | 7/18/16 17:48 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Bromoform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |

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

Project Location: Textron, Providence, RI | Sample Description: | Work Order: 16G0267

Date Received: 7/8/2016

**Field Sample #: MW-116S** | Sampled: 7/7/2016 08:45

**Sample ID: 16G0267-03**

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 | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | V-05 | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 7/18/16 | 7/18/16 17:48 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90.2 | 70-130 | | | 7/18/16 17:48 |
| Toluene-d8 | 98.4 | 70-130 | | | 7/18/16 17:48 |
| 4-Bromofluorobenzene | 101 | 70-130 | | | 7/18/16 17:48 |

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

## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16G0267-01 [MW-112] | B153849 | 0.25 | 5.00 | 07/18/16 |
| 16G0267-02 [MW-116D] | B153849 | 5 | 5.00 | 07/18/16 |
| 16G0267-03 [MW-116S] | B153849 | 5 | 5.00 | 07/18/16 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B153849 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B153849-BLK1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 2.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | 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 | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 5.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B153849 - SW-846 5030B** | | | | | | | | | | | |
| **Blank (B153849-BLK1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Tetrahydrofuran | ND | 10 | µg/L | | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | V-05 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *24.1* | | µg/L | 25.0 | | 96.4 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.8* | | µg/L | 25.0 | | 99.0 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.1* | | µg/L | 25.0 | | 100 | 70-130 | | | | |
| **LCS (B153849-BS1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| Acetone | 97.4 | 50 | µg/L | 100 | | 97.4 | 70-160 | | | | † |
| Acrylonitrile | 10.2 | 5.0 | µg/L | 10.0 | | 102 | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | 70-130 | | | | |
| Benzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Bromobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Bromochloromethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | | |
| Bromodichloromethane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| Bromoform | 9.62 | 2.0 | µg/L | 10.0 | | 96.2 | 70-130 | | | | |
| Bromomethane | 6.07 | 2.0 | µg/L | 10.0 | | 60.7 | 40-160 | | | | † |
| 2-Butanone (MEK) | 90.3 | 20 | µg/L | 100 | | 90.3 | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 94.1 | 20 | µg/L | 100 | | 94.1 | 40-160 | | | | † |
| n-Butylbenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| sec-Butylbenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| tert-Butylbenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.6 | 0.50 | µg/L | 10.0 | | 116 | 70-130 | | | | |
| Carbon Disulfide | 10.9 | 4.0 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| Carbon Tetrachloride | 10.8 | 5.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Chlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| Chlorodibromomethane | 11.4 | 0.50 | µg/L | 10.0 | | 114 | 70-130 | | | | |
| Chloroethane | 9.85 | 2.0 | µg/L | 10.0 | | 98.5 | 70-130 | | | | |
| Chloroform | 10.8 | 2.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B153849 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B153849-BS1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| Chloromethane | 6.86 | 2.0 | µg/L | 10.0 | | 68.6 | 40-160 | | | | † |
| 2-Chlorotoluene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| 4-Chlorotoluene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 8.01 | 5.0 | µg/L | 10.0 | | 80.1 | 70-130 | | | V-05 | |
| 1,2-Dibromoethane (EDB) | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Dibromomethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| 1,2-Dichlorobenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| 1,3-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 10.5 | 2.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 4.81 | 2.0 | µg/L | 10.0 | | 48.1 | 40-160 | | | | † |
| 1,1-Dichloroethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| 1,2-Dichloroethane | 9.99 | 1.0 | µg/L | 10.0 | | 99.9 | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| 1,2-Dichloropropane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| 1,3-Dichloropropane | 10.4 | 0.50 | µg/L | 10.0 | | 104 | 70-130 | | | | |
| 2,2-Dichloropropane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 40-130 | | | | † |
| 1,1-Dichloropropene | 10.5 | 2.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| cis-1,3-Dichloropropene | 10.5 | 0.50 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| trans-1,3-Dichloropropene | 11.0 | 0.50 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| Diethyl Ether | 11.4 | 2.0 | µg/L | 10.0 | | 114 | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 10.7 | 0.50 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| 1,4-Dioxane | 91.6 | 50 | µg/L | 100 | | 91.6 | 40-130 | | | | † |
| Ethylbenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| Hexachlorobutadiene | 12.2 | 0.60 | µg/L | 10.0 | | 122 | 70-130 | | | | |
| 2-Hexanone (MBK) | 87.8 | 10 | µg/L | 100 | | 87.8 | 70-160 | | | | † |
| Isopropylbenzene (Cumene) | 12.6 | 1.0 | µg/L | 10.0 | | 126 | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Methyl Acetate | 9.19 | 5.0 | µg/L | 10.0 | | 91.9 | 70-130 | | | | |
| Methyl tert-Butyl Ether (MTBE) | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Methyl Cyclohexane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | | |
| Methylene Chloride | 11.2 | 5.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 92.3 | 10 | µg/L | 100 | | 92.3 | 70-160 | | | | † |
| Naphthalene | 8.57 | 2.0 | µg/L | 10.0 | | 85.7 | 40-130 | | | | † |
| n-Propylbenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| Styrene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 10.3 | 0.50 | µg/L | 10.0 | | 103 | 70-130 | | | | |
| Tetrachloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| Tetrahydrofuran | 9.80 | 10 | µg/L | 10.0 | | 98.0 | 70-130 | | | | |
| Toluene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 8.28 | 5.0 | µg/L | 10.0 | | 82.8 | 70-130 | | | V-05 | |
| 1,2,4-Trichlorobenzene | 9.32 | 1.0 | µg/L | 10.0 | | 93.2 | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| 1,1,2-Trichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| Trichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| 1,2,3-Trichloropropane | 9.76 | 2.0 | µg/L | 10.0 | | 97.6 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B153849 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B153849-BS1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Vinyl Chloride | 9.43 | 2.0 | µg/L | 10.0 | | 94.3 | 40-160 | | | | † |
| m+p Xylene | 20.8 | 2.0 | µg/L | 20.0 | | 104 | 70-130 | | | | |
| o-Xylene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *24.1* | | µg/L | 25.0 | | 96.5 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.0* | | µg/L | 25.0 | | 100 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.6* | | µg/L | 25.0 | | 98.5 | 70-130 | | | | |
| **LCS Dup (B153849-BSD1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| Acetone | 100 | 50 | µg/L | 100 | | 100 | 70-160 | 2.96 | 25 | | † |
| Acrylonitrile | 10.8 | 5.0 | µg/L | 10.0 | | 108 | 70-130 | 5.64 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 11.4 | 0.50 | µg/L | 10.0 | | 114 | 70-130 | 0.529 | 25 | | |
| Benzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | 0.0950 | 25 | | |
| Bromobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 0.464 | 25 | | |
| Bromochloromethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 0.630 | 25 | | |
| Bromodichloromethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | 1.58 | 25 | | |
| Bromoform | 9.91 | 2.0 | µg/L | 10.0 | | 99.1 | 70-130 | 2.97 | 25 | | |
| Bromomethane | 7.19 | 2.0 | µg/L | 10.0 | | 71.9 | 40-160 | 16.9 | 25 | | † |
| 2-Butanone (MEK) | 94.8 | 20 | µg/L | 100 | | 94.8 | 40-160 | 4.79 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 91.2 | 20 | µg/L | 100 | | 91.2 | 40-160 | 3.14 | 25 | | † |
| n-Butylbenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 4.58 | 25 | | |
| sec-Butylbenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 3.03 | 25 | | |
| tert-Butylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 2.39 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.7 | 0.50 | µg/L | 10.0 | | 117 | 70-130 | 0.858 | 25 | | |
| Carbon Disulfide | 10.7 | 4.0 | µg/L | 10.0 | | 107 | 70-130 | 1.30 | 25 | | |
| Carbon Tetrachloride | 10.7 | 5.0 | µg/L | 10.0 | | 107 | 70-130 | 0.372 | 25 | | |
| Chlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 0.727 | 25 | | |
| Chlorodibromomethane | 11.0 | 0.50 | µg/L | 10.0 | | 110 | 70-130 | 3.47 | 25 | | |
| Chloroethane | 10.1 | 2.0 | µg/L | 10.0 | | 101 | 70-130 | 2.51 | 25 | | |
| Chloroform | 10.8 | 2.0 | µg/L | 10.0 | | 108 | 70-130 | 0.0929 | 25 | | |
| Chloromethane | 7.33 | 2.0 | µg/L | 10.0 | | 73.3 | 40-160 | 6.62 | 25 | | † |
| 2-Chlorotoluene | 9.94 | 1.0 | µg/L | 10.0 | | 99.4 | 70-130 | 5.67 | 25 | | |
| 4-Chlorotoluene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 0.469 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 7.75 | 5.0 | µg/L | 10.0 | | 77.5 | 70-130 | 3.30 | 25 | V-05 | |
| 1,2-Dibromoethane (EDB) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | 70-130 | 3.71 | 25 | | |
| Dibromomethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 1.09 | 25 | | |
| 1,2-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 0.651 | 25 | | |
| 1,3-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 1.93 | 25 | | |
| 1,4-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.289 | 25 | | |
| trans-1,4-Dichloro-2-butene | 10.3 | 2.0 | µg/L | 10.0 | | 103 | 70-130 | 1.54 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 4.56 | 2.0 | µg/L | 10.0 | | 45.6 | 40-160 | 5.34 | 25 | | † |
| 1,1-Dichloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.12 | 25 | | |
| 1,2-Dichloroethane | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 1.19 | 25 | | |
| 1,1-Dichloroethylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 0.494 | 25 | | |
| cis-1,2-Dichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.289 | 25 | | |
| trans-1,2-Dichloroethylene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 2.02 | 25 | | |
| 1,2-Dichloropropane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 1.89 | 25 | | |
| 1,3-Dichloropropane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | 70-130 | 2.55 | 25 | | |
| 2,2-Dichloropropane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 40-130 | 2.47 | 25 | | † |
| 1,1-Dichloropropene | 10.3 | 2.0 | µg/L | 10.0 | | 103 | 70-130 | 1.83 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B153849 - SW-846 5030B** | | | | | | | | | | | |
| **LCS Dup (B153849-BSD1)** | | | | Prepared & Analyzed: 07/18/16 | | | | | | | |
| cis-1,3-Dichloropropene | 10.3 | 0.50 | µg/L | 10.0 | | 103 | 70-130 | 2.03 | 25 | | |
| trans-1,3-Dichloropropene | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | 2.11 | 25 | | |
| Diethyl Ether | 12.2 | 2.0 | µg/L | 10.0 | | 122 | 70-130 | 6.36 | 25 | | |
| Diisopropyl Ether (DIPE) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | 4.02 | 25 | | |
| 1,4-Dioxane | 107 | 50 | µg/L | 100 | | 107 | 40-130 | 15.7 | 50 | | † ‡ |
| Ethylbenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.284 | 25 | | |
| Hexachlorobutadiene | 12.2 | 0.60 | µg/L | 10.0 | | 122 | 70-130 | 0.0821 | 25 | | |
| 2-Hexanone (MBK) | 88.3 | 10 | µg/L | 100 | | 88.3 | 70-160 | 0.556 | 25 | | † |
| Isopropylbenzene (Cumene) | 12.5 | 1.0 | µg/L | 10.0 | | 125 | 70-130 | 1.03 | 25 | | |
| p-Isopropyltoluene (p-Cymene) | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 2.12 | 25 | | |
| Methyl Acetate | 9.57 | 5.0 | µg/L | 10.0 | | 95.7 | 70-130 | 4.05 | 25 | | |
| Methyl tert-Butyl Ether (MTBE) | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | 0.382 | 25 | | |
| Methyl Cyclohexane | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 3.12 | 25 | | |
| Methylene Chloride | 11.4 | 5.0 | µg/L | 10.0 | | 114 | 70-130 | 0.885 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 94.0 | 10 | µg/L | 100 | | 94.0 | 70-160 | 1.79 | 25 | | † |
| Naphthalene | 8.35 | 2.0 | µg/L | 10.0 | | 83.5 | 40-130 | 2.60 | 25 | | † |
| n-Propylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 3.44 | 25 | | |
| Styrene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.567 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 0.551 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 10.3 | 0.50 | µg/L | 10.0 | | 103 | 70-130 | 0.292 | 25 | | |
| Tetrachloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 0.720 | 25 | | |
| Tetrahydrofuran | 9.30 | 10 | µg/L | 10.0 | | 93.0 | 70-130 | 5.24 | 25 | | |
| Toluene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.955 | 25 | | |
| 1,2,3-Trichlorobenzene | 9.00 | 5.0 | µg/L | 10.0 | | 90.0 | 70-130 | 8.33 | 25 | V-05 | |
| 1,2,4-Trichlorobenzene | 9.37 | 1.0 | µg/L | 10.0 | | 93.7 | 70-130 | 0.535 | 25 | | |
| 1,3,5-Trichlorobenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 0.842 | 25 | | |
| 1,1,1-Trichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 0.00 | 25 | | |
| 1,1,2-Trichloroethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 2.70 | 25 | | |
| Trichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.714 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 11.1 | 2.0 | µg/L | 10.0 | | 111 | 70-130 | 2.09 | 25 | | |
| 1,2,3-Trichloropropane | 10.1 | 2.0 | µg/L | 10.0 | | 101 | 70-130 | 3.32 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 0.694 | 25 | | |
| 1,2,4-Trimethylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 1.92 | 25 | | |
| 1,3,5-Trimethylbenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.858 | 25 | | |
| Vinyl Chloride | 8.86 | 2.0 | µg/L | 10.0 | | 88.6 | 40-160 | 6.23 | 25 | | † |
| m+p Xylene | 20.6 | 2.0 | µg/L | 20.0 | | 103 | 70-130 | 1.21 | 25 | | |
| o-Xylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 1.33 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *24.5* | | µg/L | 25.0 | | 98.0 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.0* | | µg/L | 25.0 | | 99.9 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.9* | | µg/L | 25.0 | | 99.6 | 70-130 | | | | |

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

**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| RL-11 | Elevated reporting limit due to high concentration of target compounds. |
| V-05 | Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Water*** | |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2017 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |

# CHAIN OF CUSTODY RECORD

16C0267

Rev 04.05.12

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



Company Name: CB&I Environmental
Telephone: 617-589-6175

Address: 150 Royall Street
Canton, MA 02021
Project # 130274
Client PO# 835493

Attention: Brian Cote

Project Location: Textron, Providence, RI

Sampled By: Daniel C. Leahy

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: Brian.Cote@cbi.com
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER GISKey format

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

○ "Enhanced Data Package"

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | EPA 8260B (VOCs) | # of Containers | ** Preservation | ***Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-112 | 7/7/16 | 0700 | | ✓ | GW | U | | 3 | H | V |
| 02 | MW-116D | 7/7/16 | 0800 | | ✓ | | | | 3 | H | V |
| 03 | MW-116S | 7/7/16 | 0845 | | ✓ | | | | 3 | H | V |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

ANALYSIS REQUESTED

*Dissolved Metals*
○ 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 = soil/solid
SL = sludge
O = other _____

Comments:

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: |
|---|---|
| Daniel Leahy | 7/8/16 0820 |
| Received by: (signature) | Date/Time: |
| | 7/8/16 1036 |
| Relinquished by: (signature) | Date/Time: |
| | 7/8/16 1800 |
| Received by: (signature) | Date/Time: |
| Margaret Garcia | 7/8/16 1800 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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

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 INCORRECT. TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

**PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT**



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

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

CLIENT NAME: CB&I RECEIVED BY: MG DATE: 7/8/16

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

2) **Does the chain agree with the samples?** Yes ✓ No ____

If not, explain:

3) **Are all the samples in good condition?** Yes ✓ No ____

If not, explain:

4) **How were the samples received:**

On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.7 ✓

5) **Are there Dissolved samples for the lab to filter?** Yes ____ No ✓

Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes ____ No ✓

Who was notified ____ Date ____ Time ____

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

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: ✓

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

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

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

## Containers received at Con-Test

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

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

# Bisulfate ____ # DI Water ____

# Thiosulfate ____ Unpreserved ____

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

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

**Who notified of False statements?** **Date/Time:** 7/8/16

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** MG **Date/Time:** 1800

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

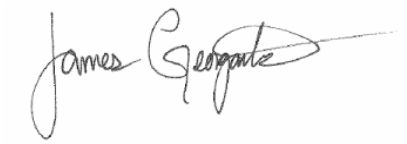
August 16, 2016

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

Project Location: Textron, Providence RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16H0119

Enclosed are results of analyses for samples received by the laboratory on August 3, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/16/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16H0119

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

PROJECT LOCATION: Textron, Providence RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-112 | 16H0119-01 | Ground Water | | SW-846 8260C | |
| MW-116D | 16H0119-02 | Ground Water | | SW-846 8260C | |
| MW-116S | 16H0119-03 | Ground Water | | SW-846 8260C | |

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

**CASE NARRATIVE SUMMARY**

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

**SW-846 8260C**

**Qualifications:**

**L-02**

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

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

**Methyl Acetate**
B155960-BS1, B155960-BSD1

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16H0119-01[MW-112]

**V-05**

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

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

**2,2-Dichloropropane**
16H0119-01[MW-112], 16H0119-02[MW-116D], 16H0119-03[MW-116S], B155960-BLK1, B155960-BS1, B155960-BSD1

**V-20**

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

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

**Acrylonitrile**
B155960-BS1, B155960-BSD1

**Bromomethane**
B155960-BS1, B155960-BSD1

**Methyl Acetate**
B155960-BS1, B155960-BSD1

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

Lisa A. Worthington
Project Manager

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-112** | Sampled: 8/1/2016 07:30

**Sample ID: 16H0119-01**

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 | 1000 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Acrylonitrile | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Benzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Bromobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Bromochloromethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Bromodichloromethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Bromoform | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Bromomethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 2-Butanone (MEK) | ND | 400 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 400 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| n-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| sec-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| tert-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Carbon Disulfide | ND | 80 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Carbon Tetrachloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Chlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Chlorodibromomethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Chloroethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Chloroform | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Chloromethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 2-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 4-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Dibromomethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,3-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,4-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| cis-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| trans-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2-Dichloropropane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,3-Dichloropropane | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 2,2-Dichloropropane | ND | 20 | µg/L | 20 | V-05 | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1-Dichloropropene | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| cis-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| trans-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Diethyl Ether | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-112** | Sampled: 8/1/2016 07:30

**Sample ID: 16H0119-01**

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 | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,4-Dioxane | ND | 1000 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Ethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Hexachlorobutadiene | ND | 12 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 2-Hexanone (MBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Isopropylbenzene (Cumene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Methyl Acetate | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Methyl Cyclohexane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Methylene Chloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Naphthalene | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| n-Propylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Styrene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Tetrachloroethylene | 2900 | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Tetrahydrofuran | ND | 200 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Toluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2,3-Trichlorobenzene | ND | 100 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2,4-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,3,5-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1,1-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1,2-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Trichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2,3-Trichloropropane | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,2,4-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| 1,3,5-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| Vinyl Chloride | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| m+p Xylene | ND | 40 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |
| o-Xylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 8/12/16 | 8/13/16 13:27 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98.6 | 70-130 | | 8/13/16 13:27 |
| Toluene-d8 | 99.9 | 70-130 | | 8/13/16 13:27 |
| 4-Bromofluorobenzene | 98.6 | 70-130 | | 8/13/16 13:27 |

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-116D** | Sampled: 8/1/2016 08:00

**Sample ID: 16H0119-02**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Bromoform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | V-05 | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-116D** | Sampled: 8/1/2016 08:00

**Sample ID: 16H0119-02**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 9:53 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99.7 | 70-130 | | | 8/13/16 9:53 |
| Toluene-d8 | 100 | 70-130 | | | 8/13/16 9:53 |
| 4-Bromofluorobenzene | 95.5 | 70-130 | | | 8/13/16 9:53 |

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-116S** | Sampled: 8/1/2016 08:30

**Sample ID: 16H0119-03**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Bromoform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | V-05 | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |

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

Project Location: Textron, Providence RI | Sample Description: | Work Order: 16H0119

Date Received: 8/3/2016

**Field Sample #: MW-116S** | Sampled: 8/1/2016 08:30

**Sample ID: 16H0119-03**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 8/12/16 | 8/13/16 10:19 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96.3 | 70-130 | | 8/13/16 10:19 |
| Toluene-d8 | 99.7 | 70-130 | | 8/13/16 10:19 |
| 4-Bromofluorobenzene | 96.6 | 70-130 | | 8/13/16 10:19 |

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## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16H0119-01 [MW-112] | B155960 | 0.25 | 5.00 | 08/12/16 |
| 16H0119-02 [MW-116D] | B155960 | 5 | 5.00 | 08/12/16 |
| 16H0119-03 [MW-116S] | B155960 | 5 | 5.00 | 08/12/16 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B155960 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B155960-BLK1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 2.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | V-05 |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 5.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B155960 - SW-846 5030B** | | | | | | | | | | | |
| **Blank (B155960-BLK1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Tetrahydrofuran | ND | 10 | µg/L | | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.0* | | µg/L | 25.0 | | 99.9 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 100 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.1* | | µg/L | 25.0 | | 96.4 | 70-130 | | | | |
| **LCS (B155960-BS1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | |
| Acetone | 91.4 | 50 | µg/L | 100 | | 91.4 | 70-160 | | | | † |
| Acrylonitrile | 12.8 | 5.0 | µg/L | 10.0 | | 128 | 70-130 | | | V-20 | |
| tert-Amyl Methyl Ether (TAME) | 9.81 | 0.50 | µg/L | 10.0 | | 98.1 | 70-130 | | | | |
| Benzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| Bromobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | | |
| Bromochloromethane | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | | | | |
| Bromodichloromethane | 9.86 | 0.50 | µg/L | 10.0 | | 98.6 | 70-130 | | | | |
| Bromoform | 7.92 | 2.0 | µg/L | 10.0 | | 79.2 | 70-130 | | | | |
| Bromomethane | 7.25 | 2.0 | µg/L | 10.0 | | 72.5 | 40-160 | | | V-20 | † |
| 2-Butanone (MEK) | 90.1 | 20 | µg/L | 100 | | 90.1 | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 112 | 20 | µg/L | 100 | | 112 | 40-160 | | | | † |
| n-Butylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| sec-Butylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | | |
| tert-Butylbenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 9.88 | 0.50 | µg/L | 10.0 | | 98.8 | 70-130 | | | | |
| Carbon Disulfide | 11.0 | 4.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| Carbon Tetrachloride | 9.01 | 5.0 | µg/L | 10.0 | | 90.1 | 70-130 | | | | |
| Chlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Chlorodibromomethane | 9.78 | 0.50 | µg/L | 10.0 | | 97.8 | 70-130 | | | | |
| Chloroethane | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |
| Chloroform | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B155960 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B155960-BS1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | | |
| Chloromethane | 7.09 | 2.0 | µg/L | 10.0 | | 70.9 | | 40-160 | | | | † |
| 2-Chlorotoluene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 4-Chlorotoluene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 8.34 | 5.0 | µg/L | 10.0 | | 83.4 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Dibromomethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 8.57 | 2.0 | µg/L | 10.0 | | 85.7 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 5.87 | 2.0 | µg/L | 10.0 | | 58.7 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,2-Dichloroethane | 9.98 | 1.0 | µg/L | 10.0 | | 99.8 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 9.79 | 1.0 | µg/L | 10.0 | | 97.9 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 9.71 | 1.0 | µg/L | 10.0 | | 97.1 | | 70-130 | | | | |
| 1,2-Dichloropropane | 9.85 | 1.0 | µg/L | 10.0 | | 98.5 | | 70-130 | | | | |
| 1,3-Dichloropropane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 2,2-Dichloropropane | 6.38 | 1.0 | µg/L | 10.0 | | 63.8 | | 40-130 | | | V-05 | † |
| 1,1-Dichloropropene | 10.4 | 2.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 8.79 | 0.50 | µg/L | 10.0 | | 87.9 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 9.03 | 0.50 | µg/L | 10.0 | | 90.3 | | 70-130 | | | | |
| Diethyl Ether | 11.0 | 2.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 9.01 | 0.50 | µg/L | 10.0 | | 90.1 | | 70-130 | | | | |
| 1,4-Dioxane | 85.8 | 50 | µg/L | 100 | | 85.8 | | 40-130 | | | | † |
| Ethylbenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| Hexachlorobutadiene | 10.5 | 0.60 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 81.5 | 10 | µg/L | 100 | | 81.5 | | 70-160 | | | | † |
| Isopropylbenzene (Cumene) | 12.4 | 1.0 | µg/L | 10.0 | | 124 | | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| **Methyl Acetate** | 21.6 | 5.0 | µg/L | 10.0 | | **216** | * | 70-130 | | | L-02, V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 9.80 | 1.0 | µg/L | 10.0 | | 98.0 | | 70-130 | | | | |
| Methyl Cyclohexane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| Methylene Chloride | 12.0 | 5.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 84.0 | 10 | µg/L | 100 | | 84.0 | | 70-160 | | | | † |
| Naphthalene | 12.3 | 2.0 | µg/L | 10.0 | | 123 | | 40-130 | | | | † |
| n-Propylbenzene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| Styrene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 9.64 | 1.0 | µg/L | 10.0 | | 96.4 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 11.0 | 0.50 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Tetrachloroethylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| Tetrahydrofuran | 9.60 | 10 | µg/L | 10.0 | | 96.0 | | 70-130 | | | | |
| Toluene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 11.8 | 5.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 9.87 | 1.0 | µg/L | 10.0 | | 98.7 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Trichloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.2 | 2.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B155960 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B155960-BS1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | | | | |
| Vinyl Chloride | 7.65 | 2.0 | µg/L | 10.0 | | 76.5 | 40-160 | | | | † |
| m+p Xylene | 20.2 | 2.0 | µg/L | 20.0 | | 101 | 70-130 | | | | |
| o-Xylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.6* | | µg/L | 25.0 | | 102 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.3* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.0* | | µg/L | 25.0 | | 99.9 | 70-130 | | | | |
| **LCS Dup (B155960-BSD1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | |
| Acetone | 90.5 | 50 | µg/L | 100 | | 90.5 | 70-160 | 0.990 | 25 | | † |
| Acrylonitrile | 12.5 | 5.0 | µg/L | 10.0 | | 125 | 70-130 | 2.61 | 25 | V-20 | |
| tert-Amyl Methyl Ether (TAME) | 9.43 | 0.50 | µg/L | 10.0 | | 94.3 | 70-130 | 3.95 | 25 | | |
| Benzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 2.18 | 25 | | |
| Bromobenzene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 1.45 | 25 | | |
| Bromochloromethane | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 1.68 | 25 | | |
| Bromodichloromethane | 9.68 | 0.50 | µg/L | 10.0 | | 96.8 | 70-130 | 1.84 | 25 | | |
| Bromoform | 7.81 | 2.0 | µg/L | 10.0 | | 78.1 | 70-130 | 1.40 | 25 | | |
| Bromomethane | 8.41 | 2.0 | µg/L | 10.0 | | 84.1 | 40-160 | 14.8 | 25 | V-20 | † |
| 2-Butanone (MEK) | 88.4 | 20 | µg/L | 100 | | 88.4 | 40-160 | 1.97 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 107 | 20 | µg/L | 100 | | 107 | 40-160 | 4.51 | 25 | | † |
| n-Butylbenzene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | 3.01 | 25 | | |
| sec-Butylbenzene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | 3.10 | 25 | | |
| tert-Butylbenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 2.06 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 9.41 | 0.50 | µg/L | 10.0 | | 94.1 | 70-130 | 4.87 | 25 | | |
| Carbon Disulfide | 10.1 | 4.0 | µg/L | 10.0 | | 101 | 70-130 | 8.07 | 25 | | |
| Carbon Tetrachloride | 8.99 | 5.0 | µg/L | 10.0 | | 89.9 | 70-130 | 0.222 | 25 | | |
| Chlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.38 | 25 | | |
| Chlorodibromomethane | 9.34 | 0.50 | µg/L | 10.0 | | 93.4 | 70-130 | 4.60 | 25 | | |
| Chloroethane | 10.1 | 2.0 | µg/L | 10.0 | | 101 | 70-130 | 4.85 | 25 | | |
| Chloroform | 10.5 | 2.0 | µg/L | 10.0 | | 105 | 70-130 | 1.04 | 25 | | |
| Chloromethane | 7.55 | 2.0 | µg/L | 10.0 | | 75.5 | 40-160 | 6.28 | 25 | | † |
| 2-Chlorotoluene | 9.69 | 1.0 | µg/L | 10.0 | | 96.9 | 70-130 | 5.13 | 25 | | |
| 4-Chlorotoluene | 9.85 | 1.0 | µg/L | 10.0 | | 98.5 | 70-130 | 3.49 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 7.97 | 5.0 | µg/L | 10.0 | | 79.7 | 70-130 | 4.54 | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.2 | 0.50 | µg/L | 10.0 | | 112 | 70-130 | 0.977 | 25 | | |
| Dibromomethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 1.28 | 25 | | |
| 1,2-Dichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.189 | 25 | | |
| 1,3-Dichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 1.05 | 25 | | |
| 1,4-Dichlorobenzene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | 70-130 | 0.992 | 25 | | |
| trans-1,4-Dichloro-2-butene | 8.33 | 2.0 | µg/L | 10.0 | | 83.3 | 70-130 | 2.84 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 5.71 | 2.0 | µg/L | 10.0 | | 57.1 | 40-160 | 2.76 | 25 | | † |
| 1,1-Dichloroethane | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 70-130 | 1.74 | 25 | | |
| 1,2-Dichloroethane | 9.81 | 1.0 | µg/L | 10.0 | | 98.1 | 70-130 | 1.72 | 25 | | |
| 1,1-Dichloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 4.07 | 25 | | |
| cis-1,2-Dichloroethylene | 9.93 | 1.0 | µg/L | 10.0 | | 99.3 | 70-130 | 1.42 | 25 | | |
| trans-1,2-Dichloroethylene | 9.53 | 1.0 | µg/L | 10.0 | | 95.3 | 70-130 | 1.87 | 25 | | |
| 1,2-Dichloropropane | 9.66 | 1.0 | µg/L | 10.0 | | 96.6 | 70-130 | 1.95 | 25 | | |
| 1,3-Dichloropropane | 10.5 | 0.50 | µg/L | 10.0 | | 105 | 70-130 | 2.08 | 25 | | |
| 2,2-Dichloropropane | 6.12 | 1.0 | µg/L | 10.0 | | 61.2 | 40-130 | 4.16 | 25 | V-05 | † |
| 1,1-Dichloropropene | 10.0 | 2.0 | µg/L | 10.0 | | 100 | 70-130 | 3.33 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B155960 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B155960-BSD1)** | | | | Prepared: 08/12/16 Analyzed: 08/13/16 | | | | | | | | |
| cis-1,3-Dichloropropene | 8.42 | 0.50 | µg/L | 10.0 | | 84.2 | | 70-130 | 4.30 | 25 | | |
| trans-1,3-Dichloropropene | 8.42 | 0.50 | µg/L | 10.0 | | 84.2 | | 70-130 | 6.99 | 25 | | |
| Diethyl Ether | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | 1.09 | 25 | | |
| Diisopropyl Ether (DIPE) | 8.75 | 0.50 | µg/L | 10.0 | | 87.5 | | 70-130 | 2.93 | 25 | | |
| 1,4-Dioxane | 94.6 | 50 | µg/L | 100 | | 94.6 | | 40-130 | 9.69 | 50 | | † ‡ |
| Ethylbenzene | 9.94 | 1.0 | µg/L | 10.0 | | 99.4 | | 70-130 | 4.23 | 25 | | |
| Hexachlorobutadiene | 10.3 | 0.60 | µg/L | 10.0 | | 103 | | 70-130 | 2.21 | 25 | | |
| 2-Hexanone (MBK) | 79.8 | 10 | µg/L | 100 | | 79.8 | | 70-160 | 2.11 | 25 | | † |
| Isopropylbenzene (Cumene) | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | 3.71 | 25 | | |
| p-Isopropyltoluene (p-Cymene) | 9.94 | 1.0 | µg/L | 10.0 | | 99.4 | | 70-130 | 1.50 | 25 | | |
| **Methyl Acetate** | 21.7 | 5.0 | µg/L | 10.0 | | **217** | * | 70-130 | 0.739 | 25 | L-02, V-20 | |
| Methyl tert-Butyl Ether (MTBE) | 9.39 | 1.0 | µg/L | 10.0 | | 93.9 | | 70-130 | 4.27 | 25 | | |
| Methyl Cyclohexane | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | 2.94 | 25 | | |
| Methylene Chloride | 11.8 | 5.0 | µg/L | 10.0 | | 118 | | 70-130 | 2.10 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 83.4 | 10 | µg/L | 100 | | 83.4 | | 70-160 | 0.741 | 25 | | † |
| Naphthalene | 12.0 | 2.0 | µg/L | 10.0 | | 120 | | 40-130 | 2.39 | 25 | | † |
| n-Propylbenzene | 9.88 | 1.0 | µg/L | 10.0 | | 98.8 | | 70-130 | 3.38 | 25 | | |
| Styrene | 9.72 | 1.0 | µg/L | 10.0 | | 97.2 | | 70-130 | 3.24 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 9.46 | 1.0 | µg/L | 10.0 | | 94.6 | | 70-130 | 1.88 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | | 70-130 | 3.23 | 25 | | |
| Tetrachloroethylene | 9.83 | 1.0 | µg/L | 10.0 | | 98.3 | | 70-130 | 2.81 | 25 | | |
| Tetrahydrofuran | 9.18 | 10 | µg/L | 10.0 | | 91.8 | | 70-130 | 4.47 | 25 | | |
| Toluene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | 0.978 | 25 | | |
| 1,2,3-Trichlorobenzene | 11.6 | 5.0 | µg/L | 10.0 | | 116 | | 70-130 | 1.96 | 25 | | |
| 1,2,4-Trichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 1.56 | 25 | | |
| 1,3,5-Trichlorobenzene | 9.78 | 1.0 | µg/L | 10.0 | | 97.8 | | 70-130 | 2.32 | 25 | | |
| 1,1,1-Trichloroethane | 9.63 | 1.0 | µg/L | 10.0 | | 96.3 | | 70-130 | 2.46 | 25 | | |
| 1,1,2-Trichloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 4.17 | 25 | | |
| Trichloroethylene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 2.35 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 9.93 | 2.0 | µg/L | 10.0 | | 99.3 | | 70-130 | 2.58 | 25 | | |
| 1,2,3-Trichloropropane | 10.8 | 2.0 | µg/L | 10.0 | | 108 | | 70-130 | 1.20 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | 2.55 | 25 | | |
| 1,2,4-Trimethylbenzene | 9.87 | 1.0 | µg/L | 10.0 | | 98.7 | | 70-130 | 3.19 | 25 | | |
| 1,3,5-Trimethylbenzene | 9.81 | 1.0 | µg/L | 10.0 | | 98.1 | | 70-130 | 3.11 | 25 | | |
| Vinyl Chloride | 7.60 | 2.0 | µg/L | 10.0 | | 76.0 | | 40-160 | 0.656 | 25 | | † |
| m+p Xylene | 19.8 | 2.0 | µg/L | 20.0 | | 98.8 | | 70-130 | 2.40 | 25 | | |
| o-Xylene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | 3.14 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.5* | | µg/L | 25.0 | | 102 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.3* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.8* | | µg/L | 25.0 | | 99.1 | | 70-130 | | | | |

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**FLAG/QUALIFIER SUMMARY**

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

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## CERTIFICATIONS

**Certified Analyses included in this Report**

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

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## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Water*** | |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2017 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2017 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |

# CHAIN OF CUSTODY RECORD

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

16H0119
Rev 04.05.12



Company Name: CB&I Environmental
Address: 150 Royall Street
Canton, MA 02021
Attention: Brian Cote
Project Location: Textron, Providence, RI
Sampled By: Paul Ledoux

Telephone: 617-589-6175
Project #: 130274
Client PO#: 835493

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: Brian.Cote@cbi.com
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER GISKey format
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers (3) | ** Preservation (H) | ***Container Code (V) | ANALYSIS REQUESTED: EPA 8260B (VOCs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-112 | 8.1.16 | 0730 | | ✓ | GW | U | 3 | | | |
| 02 | MW-116D | ↓ | 0902 | | | ↓ | ↓ | 3 | | | |
| 03 | MW-116S | ↓ | 0830 | | | ↓ | ↓ | 3 | | | |
| | | | | | | | | | | | |
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Comments:

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

**Dissolved Metals**
○ 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 = soil/solid
SL= sludge
O = other _____

| Relinquished by: (signature) | Date/Time: |
|---|---|
| | 8.1.16 1200 |
| Received by: (signature) | Date/Time: |
| | 8-3-16 0905 |
| Relinquished by: (signature) | Date/Time: |
| | 8-3-16 1645 |
| Received by: (signature) | Date/Time: |
| | 8/3/16 5.00c 1645 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** CB&I Environmental **RECEIVED BY:** CMC **DATE:** 8/3/16

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

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

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

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

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.6°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:** Login

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

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

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

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

## Containers received at Con-Test

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

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

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | 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 | 5.6°C |
| 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 Acme | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | T | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | NA | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | T | |
| 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:** Acme **Date/Time:** 8/2/16 am 8/3/16 1645

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

September 21, 2016

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

Project Location: Textron Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16I0631

Enclosed are results of analyses for samples received by the laboratory on September 15, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

# Table of Contents

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

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

REPORT DATE: 9/21/2016

PURCHASE ORDER NUMBER: 835493

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16I0631

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

PROJECT LOCATION: Textron Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-112 | 16I0631-01 | Ground Water | | SW-846 8260C | |
| MW-116D | 16I0631-02 | Ground Water | | SW-846 8260C | |
| MW-116S | 16I0631-03 | Ground Water | | SW-846 8260C | |

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

## CASE NARRATIVE SUMMARY

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

### SW-846 8260C

**Qualifications:**

**L-02**

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

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

**Isopropylbenzene (Cumene)**
B158587-BS1, B158587-BSD1

**Methyl Acetate**
B158587-BS1, B158587-BSD1

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16I0631-01[MW-112]

**V-05**

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

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

**Chloromethane**
16I0631-01[MW-112], 16I0631-02[MW-116D], 16I0631-03[MW-116S], B158587-BLK1, B158587-BS1, B158587-BSD1

**V-20**

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

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

**Bromomethane**
B158587-BS1, B158587-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.

Tod E. Kopyscinski
Laboratory Director

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-112** | Sampled: 9/13/2016 13:00

**Sample ID: 16I0631-01**

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 | 1000 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Acrylonitrile | ND | 100 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Benzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Bromobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Bromochloromethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Bromodichloromethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Bromoform | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Bromomethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 2-Butanone (MEK) | ND | 400 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 400 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| n-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| sec-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| tert-Butylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Carbon Disulfide | ND | 80 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Carbon Tetrachloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Chlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Chlorodibromomethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Chloroethane | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Chloroform | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Chloromethane | ND | 40 | µg/L | 20 | V-05 | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 2-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 4-Chlorotoluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 100 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Dibromomethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,3-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,4-Dichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2-Dichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| cis-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| trans-1,2-Dichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2-Dichloropropane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,3-Dichloropropane | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 2,2-Dichloropropane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1-Dichloropropene | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| cis-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| trans-1,3-Dichloropropene | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Diethyl Ether | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-112** | Sampled: 9/13/2016 13:00

**Sample ID: 16I0631-01**

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 | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,4-Dioxane | ND | 1000 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Ethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Hexachlorobutadiene | ND | 12 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 2-Hexanone (MBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Isopropylbenzene (Cumene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Methyl Acetate | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Methyl Cyclohexane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Methylene Chloride | ND | 100 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 200 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Naphthalene | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| n-Propylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Styrene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 10 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Tetrachloroethylene | 670 | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Tetrahydrofuran | ND | 200 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Toluene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2,3-Trichlorobenzene | ND | 100 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2,4-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,3,5-Trichlorobenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1,1-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1,2-Trichloroethane | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Trichloroethylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2,3-Trichloropropane | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,2,4-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| 1,3,5-Trimethylbenzene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| Vinyl Chloride | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| m+p Xylene | ND | 40 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |
| o-Xylene | ND | 20 | µg/L | 20 | | SW-846 8260C | 9/19/16 | 9/20/16 7:31 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 93.2 | 70-130 | | 9/20/16 7:31 |
| Toluene-d8 | 98.0 | 70-130 | | 9/20/16 7:31 |
| 4-Bromofluorobenzene | 98.4 | 70-130 | | 9/20/16 7:31 |

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-116D** | Sampled: 9/13/2016 14:00

**Sample ID: 16I0631-02**

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 | 9/19/16 | 9/20/16 6:38 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-116D** | Sampled: 9/13/2016 14:00

**Sample ID: 16I0631-02**

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 | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 6:38 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 94.5 | 70-130 | | 9/20/16 6:38 |
| Toluene-d8 | 99.5 | 70-130 | | 9/20/16 6:38 |
| 4-Bromofluorobenzene | 102 | 70-130 | | 9/20/16 6:38 |

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-116S** | Sampled: 9/13/2016 14:50

**Sample ID: 16I0631-03**

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 | 9/19/16 | 9/20/16 7:05 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |

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

Project Location: Textron Providence, RI | Sample Description: | Work Order: 16I0631

Date Received: 9/15/2016

**Field Sample #: MW-116S** | Sampled: 9/13/2016 14:50

**Sample ID: 16I0631-03**

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 | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 9/19/16 | 9/20/16 7:05 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 94.2 | 70-130 | | 9/20/16 7:05 |
| Toluene-d8 | 99.8 | 70-130 | | 9/20/16 7:05 |
| 4-Bromofluorobenzene | 98.2 | 70-130 | | 9/20/16 7:05 |

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## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16I0631-01 [MW-112] | B158587 | 0.25 | 5.00 | 09/19/16 |
| 16I0631-02 [MW-116D] | B158587 | 5 | 5.00 | 09/19/16 |
| 16I0631-03 [MW-116S] | B158587 | 5 | 5.00 | 09/19/16 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B158587 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B158587-BLK1)** | | | | Prepared: 09/19/16 Analyzed: 09/20/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | V-05 |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B158587 - SW-846 5030B** | | | | | | | | | | | |
| **Blank (B158587-BLK1)** | | | | Prepared: 09/19/16 Analyzed: 09/20/16 | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | | |
| 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 | *23.4* | | µg/L | 25.0 | | 93.6 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.9* | | µg/L | 25.0 | | 99.6 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.8* | | µg/L | 25.0 | | 99.3 | 70-130 | | | | |
| **LCS (B158587-BS1)** | | | | Prepared & Analyzed: 09/19/16 | | | | | | | |
| Acetone | 104 | 50 | µg/L | 100 | | 104 | 70-160 | | | | † |
| Acrylonitrile | 9.18 | 5.0 | µg/L | 10.0 | | 91.8 | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 9.33 | 0.50 | µg/L | 10.0 | | 93.3 | 70-130 | | | | |
| Benzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| Bromobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | | | |
| Bromochloromethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | | | |
| Bromodichloromethane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| Bromoform | 9.81 | 1.0 | µg/L | 10.0 | | 98.1 | 70-130 | | | | |
| Bromomethane | 6.82 | 2.0 | µg/L | 10.0 | | 68.2 | 40-160 | | | V-20 | † |
| 2-Butanone (MEK) | 111 | 20 | µg/L | 100 | | 111 | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 89.9 | 20 | µg/L | 100 | | 89.9 | 40-160 | | | | † |
| n-Butylbenzene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | 70-130 | | | | |
| sec-Butylbenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | | |
| tert-Butylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.1 | 0.50 | µg/L | 10.0 | | 101 | 70-130 | | | | |
| Carbon Disulfide | 9.34 | 4.0 | µg/L | 10.0 | | 93.4 | 70-130 | | | | |
| Carbon Tetrachloride | 10.1 | 5.0 | µg/L | 10.0 | | 101 | 70-130 | | | | |
| Chlorobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | | |
| Chlorodibromomethane | 9.79 | 2.0 | µg/L | 10.0 | | 97.9 | 70-130 | | | | |
| Chloroethane | 8.81 | 2.0 | µg/L | 10.0 | | 88.1 | 70-130 | | | | |
| Chloroform | 10.7 | 2.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B158587 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B158587-BS1)** | | | | Prepared & Analyzed: 09/19/16 | | | | | | | | |
| Chloromethane | 5.37 | 2.0 | µg/L | 10.0 | | 53.7 | | 40-160 | | | V-05 | † |
| 2-Chlorotoluene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 4-Chlorotoluene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.6 | 5.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 11.1 | 0.50 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Dibromomethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 9.19 | 2.0 | µg/L | 10.0 | | 91.9 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 6.40 | 2.0 | µg/L | 10.0 | | 64.0 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,2-Dichloroethane | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.0 | 1.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 1,2-Dichloropropane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,3-Dichloropropane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 2,2-Dichloropropane | 9.55 | 1.0 | µg/L | 10.0 | | 95.5 | | 40-130 | | | | † |
| 1,1-Dichloropropene | 10.8 | 2.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 9.61 | 0.50 | µg/L | 10.0 | | 96.1 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 11.2 | 0.50 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Diethyl Ether | 9.71 | 2.0 | µg/L | 10.0 | | 97.1 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 9.46 | 0.50 | µg/L | 10.0 | | 94.6 | | 70-130 | | | | |
| 1,4-Dioxane | 87.4 | 50 | µg/L | 100 | | 87.4 | | 40-130 | | | | † |
| Ethylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Hexachlorobutadiene | 12.0 | 0.60 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 95.4 | 10 | µg/L | 100 | | 95.4 | | 70-160 | | | | † |
| **Isopropylbenzene (Cumene)** | 13.6 | 1.0 | µg/L | 10.0 | | **136** | * | 70-130 | | | L-02 | |
| p-Isopropyltoluene (p-Cymene) | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| **Methyl Acetate** | 14.6 | 1.0 | µg/L | 10.0 | | **146** | * | 70-130 | | | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.52 | 1.0 | µg/L | 10.0 | | 95.2 | | 70-130 | | | | |
| Methyl Cyclohexane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| Methylene Chloride | 10.2 | 5.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 98.6 | 10 | µg/L | 100 | | 98.6 | | 70-160 | | | | † |
| Naphthalene | 12.1 | 2.0 | µg/L | 10.0 | | 121 | | 40-130 | | | | † |
| n-Propylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| Styrene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 11.6 | 0.50 | µg/L | 10.0 | | 116 | | 70-130 | | | | |
| Tetrachloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Tetrahydrofuran | 9.61 | 10 | µg/L | 10.0 | | 96.1 | | 70-130 | | | | |
| Toluene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 11.2 | 5.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| Trichloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.0 | 2.0 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 11.3 | 2.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B158587 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B158587-BS1)** | | | | Prepared & Analyzed: 09/19/16 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.68 | 1.0 | µg/L | 10.0 | | 96.8 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | | | | |
| Vinyl Chloride | 8.01 | 2.0 | µg/L | 10.0 | | 80.1 | 40-160 | | | | † |
| m+p Xylene | 22.4 | 2.0 | µg/L | 20.0 | | 112 | 70-130 | | | | |
| o-Xylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *23.7* | | µg/L | 25.0 | | 94.7 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.9* | | µg/L | 25.0 | | 99.7 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.2* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| **LCS Dup (B158587-BSD1)** | | | | Prepared & Analyzed: 09/19/16 | | | | | | | |
| Acetone | 96.8 | 50 | µg/L | 100 | | 96.8 | 70-160 | 6.92 | 25 | | † |
| Acrylonitrile | 9.30 | 5.0 | µg/L | 10.0 | | 93.0 | 70-130 | 1.30 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 9.51 | 0.50 | µg/L | 10.0 | | 95.1 | 70-130 | 1.91 | 25 | | |
| Benzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 0.651 | 25 | | |
| Bromobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.356 | 25 | | |
| Bromochloromethane | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 1.06 | 25 | | |
| Bromodichloromethane | 10.6 | 0.50 | µg/L | 10.0 | | 106 | 70-130 | 0.940 | 25 | | |
| Bromoform | 9.99 | 1.0 | µg/L | 10.0 | | 99.9 | 70-130 | 1.82 | 25 | | |
| Bromomethane | 7.46 | 2.0 | µg/L | 10.0 | | 74.6 | 40-160 | 8.96 | 25 | V-20 | † |
| 2-Butanone (MEK) | 103 | 20 | µg/L | 100 | | 103 | 40-160 | 7.55 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 90.0 | 20 | µg/L | 100 | | 90.0 | 40-160 | 0.0779 | 25 | | † |
| n-Butylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 1.68 | 25 | | |
| sec-Butylbenzene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 0.686 | 25 | | |
| tert-Butylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 2.19 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.1 | 0.50 | µg/L | 10.0 | | 101 | 70-130 | 0.298 | 25 | | |
| Carbon Disulfide | 9.38 | 4.0 | µg/L | 10.0 | | 93.8 | 70-130 | 0.427 | 25 | | |
| Carbon Tetrachloride | 10.2 | 5.0 | µg/L | 10.0 | | 102 | 70-130 | 1.48 | 25 | | |
| Chlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 2.81 | 25 | | |
| Chlorodibromomethane | 9.70 | 2.0 | µg/L | 10.0 | | 97.0 | 70-130 | 0.924 | 25 | | |
| Chloroethane | 9.32 | 2.0 | µg/L | 10.0 | | 93.2 | 70-130 | 5.63 | 25 | | |
| Chloroform | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 70-130 | 0.751 | 25 | | |
| Chloromethane | 6.15 | 2.0 | µg/L | 10.0 | | 61.5 | 40-160 | 13.5 | 25 | V-05 | † |
| 2-Chlorotoluene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 2.32 | 25 | | |
| 4-Chlorotoluene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 1.31 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.8 | 5.0 | µg/L | 10.0 | | 108 | 70-130 | 1.40 | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.6 | 0.50 | µg/L | 10.0 | | 116 | 70-130 | 4.23 | 25 | | |
| Dibromomethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 1.37 | 25 | | |
| 1,2-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 2.21 | 25 | | |
| 1,3-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 2.99 | 25 | | |
| 1,4-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.82 | 25 | | |
| trans-1,4-Dichloro-2-butene | 9.20 | 2.0 | µg/L | 10.0 | | 92.0 | 70-130 | 0.109 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 6.47 | 2.0 | µg/L | 10.0 | | 64.7 | 40-160 | 1.09 | 25 | | † |
| 1,1-Dichloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.01 | 25 | | |
| 1,2-Dichloroethane | 10.0 | 1.0 | µg/L | 10.0 | | 100 | 70-130 | 0.397 | 25 | | |
| 1,1-Dichloroethylene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | 70-130 | 0.398 | 25 | | |
| cis-1,2-Dichloroethylene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 1.22 | 25 | | |
| trans-1,2-Dichloroethylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.940 | 25 | | |
| 1,2-Dichloropropane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.00 | 25 | | |
| 1,3-Dichloropropane | 10.7 | 0.50 | µg/L | 10.0 | | 107 | 70-130 | 0.187 | 25 | | |
| 2,2-Dichloropropane | 9.48 | 1.0 | µg/L | 10.0 | | 94.8 | 40-130 | 0.736 | 25 | | † |
| 1,1-Dichloropropene | 10.7 | 2.0 | µg/L | 10.0 | | 107 | 70-130 | 0.650 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B158587 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B158587-BSD1)** | | | | Prepared & Analyzed: 09/19/16 | | | | | | | | |
| cis-1,3-Dichloropropene | 9.46 | 0.50 | µg/L | 10.0 | | 94.6 | | 70-130 | 1.57 | 25 | | |
| trans-1,3-Dichloropropene | 11.2 | 0.50 | µg/L | 10.0 | | 112 | | 70-130 | 0.0894 | 25 | | |
| Diethyl Ether | 9.47 | 2.0 | µg/L | 10.0 | | 94.7 | | 70-130 | 2.50 | 25 | | |
| Diisopropyl Ether (DIPE) | 9.32 | 0.50 | µg/L | 10.0 | | 93.2 | | 70-130 | 1.49 | 25 | | |
| 1,4-Dioxane | 83.9 | 50 | µg/L | 100 | | 83.9 | | 40-130 | 4.03 | 50 | | † ‡ |
| Ethylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | 0.966 | 25 | | |
| Hexachlorobutadiene | 12.2 | 0.60 | µg/L | 10.0 | | 122 | | 70-130 | 1.82 | 25 | | |
| 2-Hexanone (MBK) | 94.1 | 10 | µg/L | 100 | | 94.1 | | 70-160 | 1.41 | 25 | | † |
| **Isopropylbenzene (Cumene)** | 13.8 | 1.0 | µg/L | 10.0 | | **138** | * | 70-130 | 1.68 | 25 | L-02 | |
| p-Isopropyltoluene (p-Cymene) | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 1.15 | 25 | | |
| **Methyl Acetate** | 14.6 | 1.0 | µg/L | 10.0 | | **146** | * | 70-130 | 0.410 | 25 | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.70 | 1.0 | µg/L | 10.0 | | 97.0 | | 70-130 | 1.87 | 25 | | |
| Methyl Cyclohexane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 0.658 | 25 | | |
| Methylene Chloride | 10.5 | 5.0 | µg/L | 10.0 | | 105 | | 70-130 | 3.57 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 97.6 | 10 | µg/L | 100 | | 97.6 | | 70-160 | 0.948 | 25 | | † |
| Naphthalene | 12.0 | 2.0 | µg/L | 10.0 | | 120 | | 40-130 | 0.995 | 25 | | † |
| n-Propylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 1.89 | 25 | | |
| Styrene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 1.57 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 4.52 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 11.6 | 0.50 | µg/L | 10.0 | | 116 | | 70-130 | 0.0863 | 25 | | |
| Tetrachloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 1.61 | 25 | | |
| Tetrahydrofuran | 8.89 | 10 | µg/L | 10.0 | | 88.9 | | 70-130 | 7.78 | 25 | | |
| Toluene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 0.730 | 25 | | |
| 1,2,3-Trichlorobenzene | 11.3 | 5.0 | µg/L | 10.0 | | 113 | | 70-130 | 0.798 | 25 | | |
| 1,2,4-Trichlorobenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 1.97 | 25 | | |
| 1,3,5-Trichlorobenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | 4.07 | 25 | | |
| 1,1,1-Trichloroethane | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | 1.57 | 25 | | |
| 1,1,2-Trichloroethane | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | 0.876 | 25 | | |
| Trichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 1.84 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 9.88 | 2.0 | µg/L | 10.0 | | 98.8 | | 70-130 | 1.61 | 25 | | |
| 1,2,3-Trichloropropane | 11.1 | 2.0 | µg/L | 10.0 | | 111 | | 70-130 | 1.78 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.87 | 1.0 | µg/L | 10.0 | | 98.7 | | 70-130 | 1.94 | 25 | | |
| 1,2,4-Trimethylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 2.32 | 25 | | |
| 1,3,5-Trimethylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 2.22 | 25 | | |
| Vinyl Chloride | 8.12 | 2.0 | µg/L | 10.0 | | 81.2 | | 40-160 | 1.36 | 25 | | † |
| m+p Xylene | 22.7 | 2.0 | µg/L | 20.0 | | 113 | | 70-130 | 1.38 | 25 | | |
| o-Xylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 1.34 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *24.0* | | µg/L | 25.0 | | 95.9 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.3* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.6* | | µg/L | 25.0 | | 102 | | 70-130 | | | | |

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**FLAG/QUALIFIER SUMMARY**

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

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Water*** | |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2017 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2017 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2017 |

# CHAIN OF CUSTODY RECORD

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



1 of 1 COC 3

Rev 04.05.12

Company Name: CB&I Environmental
Address: 150 Royall Street
Canton, MA 02021
Attention: Brian Cote
Project Location: Textron Providence RI
Sampled By: DAN LEARY

Telephone: 617-589-6175
Project #: 130274
Client PO#: 835493

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #:
Email: Brian.Cote@cbi.com
Format: X PDF ○ EXCEL ○ GIS
X OTHER GISKey format
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | ***Container Code | ANALYSIS REQUESTED: EPA 8260B (VOCs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-112 | 12/13/16 | 1300 | | ✓ | GW | U | 3 | H | V | |
| 02 | MW-116D | 12/13/16 | 1400 | | ✓ | ↓ | ↓ | 3 | H | V | |
| 03 | MW-116S | 12/13/16 | 1450 | | ✓ | ↓ | ↓ | 3 | H | V | |

Dissolved Metals
○ 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 = soil/solid
SL = sludge
O = other _____

Comments:

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) | 0600 Date/Time: 9/14/16 | |
| Received by: (signature) | 9/15/16 Date/Time: 12:30 | |
| Relinquished by: (signature) | 9/15/16 Date/Time: 1860 | |
| Received by: (signature) | 2.0°C 9/15/16 Date/Time: 1800 | |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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

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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** CB&I Environmental **RECEIVED BY:** CKMC **DATE:** 8/4 am 9/15/10

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

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

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

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

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 2.0°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:** Logan

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

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

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

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

## Containers received at Con-Test

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

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

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | 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 | 2.0°C |
| 6) COC is filled out in ink and legible. | T | |
| 7) COC is filled out with all pertinent information. | T | |
| 8) Field Sampler's name present on COC. | T | |
| 9) There are no discrepancies between the sample IDs on the container and the COC. | T | |
| 10) Samples are received within Holding Time. | T | |
| 11) Sample containers have legible labels. | T | |
| 12) Containers are not broken or leaking. | T | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | T | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | NA | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | T | |
| 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:** CKMC **Date/Time:** 9/15/16 1800

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

October 11, 2016

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

Project Location: Testron Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16J0193

Enclosed are results of analyses for samples received by the laboratory on October 5, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

# Table of Contents

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

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

REPORT DATE: 10/11/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16J0193

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

PROJECT LOCATION: Testron Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-112 | 16J0193-01 | Ground Water | | SW-846 8260C | |
| MW-116D | 16J0193-02 | Ground Water | | SW-846 8260C | |
| MW-116S | 16J0193-03 | Ground Water | | SW-846 8260C | |

con-test® ANALYTICAL LABORATORY
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**CASE NARRATIVE SUMMARY**

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

**SW-846 8260C**

**Qualifications:**

**L-02**

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

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

**Isopropylbenzene (Cumene)**
B160012-BS1, B160012-BSD1

**Methyl Acetate**
B160012-BS1, B160012-BSD1

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16J0193-01[MW-112]

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

Lisa A. Worthington
Project Manager

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-112** | Sampled: 10/4/2016 10:00

**Sample ID: 16J0193-01**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 250 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Acrylonitrile | ND | 25 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Benzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Bromobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Bromochloromethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Bromodichloromethane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Bromoform | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Bromomethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 2-Butanone (MEK) | ND | 100 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 100 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| n-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| sec-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| tert-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Carbon Disulfide | ND | 20 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Carbon Tetrachloride | ND | 25 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Chlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Chlorodibromomethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Chloroethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Chloroform | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Chloromethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 2-Chlorotoluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 4-Chlorotoluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 25 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Dibromomethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,3-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,4-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1-Dichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2-Dichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| cis-1,2-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| trans-1,2-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2-Dichloropropane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,3-Dichloropropane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 2,2-Dichloropropane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1-Dichloropropene | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| cis-1,3-Dichloropropene | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| trans-1,3-Dichloropropene | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Diethyl Ether | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-112** | Sampled: 10/4/2016 10:00

**Sample ID: 16J0193-01**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,4-Dioxane | ND | 250 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Ethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Hexachlorobutadiene | ND | 3.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 2-Hexanone (MBK) | ND | 50 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Isopropylbenzene (Cumene) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Methyl Cyclohexane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Methylene Chloride | ND | 25 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 50 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Naphthalene | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| n-Propylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Styrene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Tetrachloroethylene | 500 | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Tetrahydrofuran | ND | 50 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Toluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2,3-Trichlorobenzene | ND | 25 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2,4-Trichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,3,5-Trichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1,1-Trichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1,2-Trichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Trichloroethylene | 7.4 | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2,3-Trichloropropane | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,2,4-Trimethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| 1,3,5-Trimethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| Vinyl Chloride | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| m+p Xylene | ND | 10 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |
| o-Xylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 10/6/16 | 10/7/16 9:47 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98.6 | 70-130 | | 10/7/16 9:47 |
| Toluene-d8 | 99.6 | 70-130 | | 10/7/16 9:47 |
| 4-Bromofluorobenzene | 97.8 | 70-130 | | 10/7/16 9:47 |

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-116D** | Sampled: 10/4/2016 10:45

**Sample ID: 16J0193-02**

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 | 10/6/16 | 10/7/16 3:58 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-116D** | Sampled: 10/4/2016 10:45

**Sample ID: 16J0193-02**

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 | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 3:58 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99.3 | 70-130 | | 10/7/16 3:58 |
| Toluene-d8 | 99.3 | 70-130 | | 10/7/16 3:58 |
| 4-Bromofluorobenzene | 101 | 70-130 | | 10/7/16 3:58 |

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-116S** | Sampled: 10/4/2016 11:50

**Sample ID: 16J0193-03**

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 | 10/6/16 | 10/7/16 4:25 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |

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

Project Location: Testron Providence, RI | Sample Description: | Work Order: 16J0193

Date Received: 10/5/2016

**Field Sample #: MW-116S** | Sampled: 10/4/2016 11:50

**Sample ID: 16J0193-03**

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 | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 10/6/16 | 10/7/16 4:25 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99.4 | 70-130 | | 10/7/16 4:25 |
| Toluene-d8 | 101 | 70-130 | | 10/7/16 4:25 |
| 4-Bromofluorobenzene | 101 | 70-130 | | 10/7/16 4:25 |

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

## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16J0193-01 [MW-112] | B160012 | 1 | 5.00 | 10/06/16 |
| 16J0193-02 [MW-116D] | B160012 | 5 | 5.00 | 10/06/16 |
| 16J0193-03 [MW-116S] | B160012 | 5 | 5.00 | 10/06/16 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B160012 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B160012-BLK1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B160012 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B160012-BLK1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Tetrahydrofuran | ND | 10 | µg/L | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *24.6* | | µg/L | 25.0 | | 98.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | *24.9* | | µg/L | 25.0 | | 99.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.7* | | µg/L | 25.0 | | 99.0 | 70-130 | | | |
| **LCS (B160012-BS1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | |
| Acetone | 84.9 | 50 | µg/L | 100 | | 84.9 | 70-160 | | | † |
| Acrylonitrile | 9.03 | 5.0 | µg/L | 10.0 | | 90.3 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 10.0 | 0.50 | µg/L | 10.0 | | 100 | 70-130 | | | |
| Benzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | |
| Bromobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | |
| Bromochloromethane | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | | | |
| Bromodichloromethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | | | |
| Bromoform | 9.59 | 1.0 | µg/L | 10.0 | | 95.9 | 70-130 | | | |
| Bromomethane | 7.13 | 2.0 | µg/L | 10.0 | | 71.3 | 40-160 | | | † |
| 2-Butanone (MEK) | 102 | 20 | µg/L | 100 | | 102 | 40-160 | | | † |
| tert-Butyl Alcohol (TBA) | 88.9 | 20 | µg/L | 100 | | 88.9 | 40-160 | | | † |
| n-Butylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | | | |
| sec-Butylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| tert-Butylbenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | | | |
| Carbon Disulfide | 9.77 | 4.0 | µg/L | 10.0 | | 97.7 | 70-130 | | | |
| Carbon Tetrachloride | 10.7 | 5.0 | µg/L | 10.0 | | 107 | 70-130 | | | |
| Chlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | |
| Chlorodibromomethane | 9.66 | 2.0 | µg/L | 10.0 | | 96.6 | 70-130 | | | |
| Chloroethane | 9.50 | 2.0 | µg/L | 10.0 | | 95.0 | 70-130 | | | |
| Chloroform | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 70-130 | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B160012 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B160012-BS1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | | | |
| Chloromethane | 5.95 | 2.0 | µg/L | 10.0 | | 59.5 | | 40-160 | | | | † |
| 2-Chlorotoluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 4-Chlorotoluene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.4 | 5.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 11.2 | 0.50 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Dibromomethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 8.93 | 2.0 | µg/L | 10.0 | | 89.3 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 8.33 | 2.0 | µg/L | 10.0 | | 83.3 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,2-Dichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| 1,3-Dichloropropane | 10.5 | 0.50 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 2,2-Dichloropropane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 40-130 | | | | † |
| 1,1-Dichloropropene | 11.2 | 2.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 9.29 | 0.50 | µg/L | 10.0 | | 92.9 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 11.0 | 0.50 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Diethyl Ether | 9.64 | 2.0 | µg/L | 10.0 | | 96.4 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 10.0 | 0.50 | µg/L | 10.0 | | 100 | | 70-130 | | | | |
| 1,4-Dioxane | 69.7 | 50 | µg/L | 100 | | 69.7 | | 40-130 | | | | † |
| Ethylbenzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| Hexachlorobutadiene | 11.8 | 0.60 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 95.5 | 10 | µg/L | 100 | | 95.5 | | 70-160 | | | | † |
| **Isopropylbenzene (Cumene)** | 13.3 | 1.0 | µg/L | 10.0 | | **133** | * | 70-130 | | | L-02 | |
| p-Isopropyltoluene (p-Cymene) | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| **Methyl Acetate** | 16.1 | 1.0 | µg/L | 10.0 | | **161** | * | 70-130 | | | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.90 | 1.0 | µg/L | 10.0 | | 99.0 | | 70-130 | | | | |
| Methyl Cyclohexane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| Methylene Chloride | 10.2 | 5.0 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 101 | 10 | µg/L | 100 | | 101 | | 70-160 | | | | † |
| Naphthalene | 11.1 | 2.0 | µg/L | 10.0 | | 111 | | 40-130 | | | | † |
| n-Propylbenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Styrene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| Tetrachloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Tetrahydrofuran | 12.4 | 10 | µg/L | 10.0 | | 124 | | 70-130 | | | | |
| Toluene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 10.7 | 5.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 9.96 | 1.0 | µg/L | 10.0 | | 99.6 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Trichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 11.1 | 2.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 10.7 | 2.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B160012 - SW-846 5030B** | | | | | | | | | | |
| **LCS (B160012-BS1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | | |
| Vinyl Chloride | 9.26 | 2.0 | µg/L | 10.0 | | 92.6 | 40-160 | | | † |
| m+p Xylene | 21.7 | 2.0 | µg/L | 20.0 | | 109 | 70-130 | | | |
| o-Xylene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.1* | | µg/L | 25.0 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.3* | | µg/L | 25.0 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.9* | | µg/L | 25.0 | | 99.4 | 70-130 | | | |
| **LCS Dup (B160012-BSD1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | |
| Acetone | 87.2 | 50 | µg/L | 100 | | 87.2 | 70-160 | 2.73 | 25 | † |
| Acrylonitrile | 9.33 | 5.0 | µg/L | 10.0 | | 93.3 | 70-130 | 3.27 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 9.52 | 0.50 | µg/L | 10.0 | | 95.2 | 70-130 | 5.32 | 25 | |
| Benzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 1.18 | 25 | |
| Bromobenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 4.02 | 25 | |
| Bromochloromethane | 12.1 | 1.0 | µg/L | 10.0 | | 121 | 70-130 | 2.34 | 25 | |
| Bromodichloromethane | 10.9 | 0.50 | µg/L | 10.0 | | 109 | 70-130 | 1.29 | 25 | |
| Bromoform | 9.68 | 1.0 | µg/L | 10.0 | | 96.8 | 70-130 | 0.934 | 25 | |
| Bromomethane | 7.84 | 2.0 | µg/L | 10.0 | | 78.4 | 40-160 | 9.49 | 25 | † |
| 2-Butanone (MEK) | 104 | 20 | µg/L | 100 | | 104 | 40-160 | 1.72 | 25 | † |
| tert-Butyl Alcohol (TBA) | 85.0 | 20 | µg/L | 100 | | 85.0 | 40-160 | 4.52 | 25 | † |
| n-Butylbenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | 0.680 | 25 | |
| sec-Butylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 1.23 | 25 | |
| tert-Butylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 0.898 | 25 | |
| tert-Butyl Ethyl Ether (TBEE) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | 5.82 | 25 | |
| Carbon Disulfide | 9.22 | 4.0 | µg/L | 10.0 | | 92.2 | 70-130 | 5.79 | 25 | |
| Carbon Tetrachloride | 10.5 | 5.0 | µg/L | 10.0 | | 105 | 70-130 | 2.17 | 25 | |
| Chlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 4.55 | 25 | |
| Chlorodibromomethane | 10.0 | 2.0 | µg/L | 10.0 | | 100 | 70-130 | 3.66 | 25 | |
| Chloroethane | 9.80 | 2.0 | µg/L | 10.0 | | 98.0 | 70-130 | 3.11 | 25 | |
| Chloroform | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | 2.54 | 25 | |
| Chloromethane | 7.15 | 2.0 | µg/L | 10.0 | | 71.5 | 40-160 | 18.3 | 25 | † |
| 2-Chlorotoluene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 0.890 | 25 | |
| 4-Chlorotoluene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 3.72 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.5 | 5.0 | µg/L | 10.0 | | 105 | 70-130 | 0.573 | 25 | |
| 1,2-Dibromoethane (EDB) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | 70-130 | 1.06 | 25 | |
| Dibromomethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.66 | 25 | |
| 1,2-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.35 | 25 | |
| 1,3-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.977 | 25 | |
| 1,4-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 0.369 | 25 | |
| trans-1,4-Dichloro-2-butene | 9.47 | 2.0 | µg/L | 10.0 | | 94.7 | 70-130 | 5.87 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 7.96 | 2.0 | µg/L | 10.0 | | 79.6 | 40-160 | 4.54 | 25 | † |
| 1,1-Dichloroethane | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 1.49 | 25 | |
| 1,2-Dichloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.24 | 25 | |
| 1,1-Dichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 2.95 | 25 | |
| cis-1,2-Dichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.890 | 25 | |
| trans-1,2-Dichloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 0.724 | 25 | |
| 1,2-Dichloropropane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 1.41 | 25 | |
| 1,3-Dichloropropane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | 2.71 | 25 | |
| 2,2-Dichloropropane | 9.86 | 1.0 | µg/L | 10.0 | | 98.6 | 40-130 | 5.91 | 25 | † |
| 1,1-Dichloropropene | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | 2.17 | 25 | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B160012 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B160012-BSD1)** | | | | Prepared & Analyzed: 10/06/16 | | | | | | | | |
| cis-1,3-Dichloropropene | 9.57 | 0.50 | µg/L | 10.0 | | 95.7 | | 70-130 | 2.97 | 25 | | |
| trans-1,3-Dichloropropene | 11.3 | 0.50 | µg/L | 10.0 | | 113 | | 70-130 | 2.79 | 25 | | |
| Diethyl Ether | 9.97 | 2.0 | µg/L | 10.0 | | 99.7 | | 70-130 | 3.37 | 25 | | |
| Diisopropyl Ether (DIPE) | 10.1 | 0.50 | µg/L | 10.0 | | 101 | | 70-130 | 0.794 | 25 | | |
| 1,4-Dioxane | 67.9 | 50 | µg/L | 100 | | 67.9 | | 40-130 | 2.66 | 50 | | † ‡ |
| Ethylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 5.46 | 25 | | |
| Hexachlorobutadiene | 11.8 | 0.60 | µg/L | 10.0 | | 118 | | 70-130 | 0.424 | 25 | | |
| 2-Hexanone (MBK) | 97.6 | 10 | µg/L | 100 | | 97.6 | | 70-160 | 2.19 | 25 | | † |
| **Isopropylbenzene (Cumene)** | 13.5 | 1.0 | µg/L | 10.0 | | **135** | * | 70-130 | 1.57 | 25 | L-02 | |
| p-Isopropyltoluene (p-Cymene) | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 2.16 | 25 | | |
| **Methyl Acetate** | 15.4 | 1.0 | µg/L | 10.0 | | **154** | * | 70-130 | 4.12 | 25 | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.62 | 1.0 | µg/L | 10.0 | | 96.2 | | 70-130 | 2.87 | 25 | | |
| Methyl Cyclohexane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 0.0950 | 25 | | |
| Methylene Chloride | 10.1 | 5.0 | µg/L | 10.0 | | 101 | | 70-130 | 0.786 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 103 | 10 | µg/L | 100 | | 103 | | 70-160 | 1.67 | 25 | | † |
| Naphthalene | 11.5 | 2.0 | µg/L | 10.0 | | 115 | | 40-130 | 3.19 | 25 | | † |
| n-Propylbenzene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | 3.85 | 25 | | |
| Styrene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | 2.67 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 4.84 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 11.7 | 0.50 | µg/L | 10.0 | | 117 | | 70-130 | 7.73 | 25 | | |
| Tetrachloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | 0.883 | 25 | | |
| Tetrahydrofuran | 12.7 | 10 | µg/L | 10.0 | | 127 | | 70-130 | 2.71 | 25 | | |
| Toluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 1.26 | 25 | | |
| 1,2,3-Trichlorobenzene | 11.1 | 5.0 | µg/L | 10.0 | | 111 | | 70-130 | 3.49 | 25 | | |
| 1,2,4-Trichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 1.26 | 25 | | |
| 1,3,5-Trichlorobenzene | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | 2.87 | 25 | | |
| 1,1,1-Trichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 1.03 | 25 | | |
| 1,1,2-Trichloroethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 1.51 | 25 | | |
| Trichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 0.356 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 10.6 | 2.0 | µg/L | 10.0 | | 106 | | 70-130 | 4.06 | 25 | | |
| 1,2,3-Trichloropropane | 11.4 | 2.0 | µg/L | 10.0 | | 114 | | 70-130 | 7.06 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.52 | 1.0 | µg/L | 10.0 | | 95.2 | | 70-130 | 8.35 | 25 | | |
| 1,2,4-Trimethylbenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 1.55 | 25 | | |
| 1,3,5-Trimethylbenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | 3.22 | 25 | | |
| Vinyl Chloride | 9.35 | 2.0 | µg/L | 10.0 | | 93.5 | | 40-160 | 0.967 | 25 | | † |
| m+p Xylene | 22.3 | 2.0 | µg/L | 20.0 | | 112 | | 70-130 | 2.59 | 25 | | |
| o-Xylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 1.81 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.0* | | µg/L | 25.0 | | 100 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.4* | | µg/L | 25.0 | | 102 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.6* | | µg/L | 25.0 | | 103 | | 70-130 | | | | |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| L-02 | Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. |
| RL-11 | Elevated reporting limit due to high concentration of target compounds. |

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Water*** | |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2017 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2017 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2017 |

# CHAIN OF CUSTODY RECORD

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

1605193

Rev 04.05.12



Company Name: CB&I Environmental
Telephone: 617-589-6175
Address: 150 Royall Street
Project #: 130274
Canton, MA 02021
Client PO#: 835493
Attention: Brian Cote
Project Location: Textron Providence, RI
Sampled By: DANIEL C. CAHILL

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

**DATA DELIVERY** (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #:
Email: brian.cote@cbi.com
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER GISKey Format
○ "Enhanced Data Package"

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers (3) | ** Preservation (H) | ***Container Code (V) | ANALYSIS REQUESTED: EPA 8260B (VOCs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-112 | 10/4/16 | 1000 | | G | GW | G | 3 | | | |
| | ~~XXXXXXXX~~ DC | | | | | | | | | | |
| 02 | MW-116D | 10/4/16 | 1045 | | | | | 3 | | | |
| 03 | MW-116S | 10/4/16 | 1150 | | | | | 3 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

Dissolved Metals
○ 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 = soil/solid
SL = sludge
O = other

Comments:

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: 10/6/16 0830 |
| Received by: (signature) | 10/5/16 | Date/Time: 1649 |
| Relinquished by: (signature) | 10/5/16 | Date/Time: 1651 |
| Received by: (signature) 5.2° | 10/5/16 | Date/Time: 1650 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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 INCORRECT. TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

**PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT**



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

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** CBI Environmental **RECEIVED BY:** RJM **DATE:** 10/5/16

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

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

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

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

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.2°

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

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

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

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

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

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

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

## Containers received at Con-Test

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

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

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

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

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

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** RJM **Date/Time:** 10/5/16 1650

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

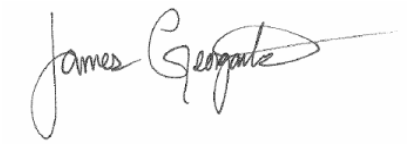
November 15, 2016

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

Project Location: Textron Providence
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 16K0182

Enclosed are results of analyses for samples received by the laboratory on November 3, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

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

REPORT DATE: 11/15/2016

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 16K0182

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

PROJECT LOCATION: Textron Providence

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW 207S | 16K0182-01 | Ground Water | | SW-846 8260C | |
| MW 207D | 16K0182-02 | Ground Water | | SW-846 8260C | |
| MW 202D | 16K0182-03 | Ground Water | | SW-846 8260C | |
| MW 202S | 16K0182-04 | Ground Water | | SW-846 8260C | |
| MW 101S | 16K0182-05 | Ground Water | | SW-846 8260C | |
| MW 101S DUP | 16K0182-06 | Ground Water | | SW-846 8260C | |
| MW 101D | 16K0182-07 | Ground Water | | SW-846 8260C | |
| MW 201D | 16K0182-08 | Ground Water | | SW-846 8260C | |
| MW 218D | 16K0182-09 | Ground Water | | SW-846 8260C | |
| MW 218S | 16K0182-10 | Ground Water | | SW-846 8260C | |
| CW-6 | 16K0182-11 | Ground Water | | SW-846 8015C | |
| CW-6 DUP | 16K0182-12 | Ground Water | | SW-846 8015C | |
| MW-109D | 16K0182-13 | Ground Water | | SW-846 6020A-B | |
| | | | | SW-846 8260C | |
| MW-109D DUP | 16K0182-14 | Ground Water | | SW-846 6020A-B | |
| GZA-3 | 16K0182-15 | Ground Water | | SW-846 6020A-B | |
| | | | | SW-846 8260C | |
| MW-112 | 16K0182-16 | Ground Water | | SW-846 8260C | |
| MW-209D | 16K0182-17 | Ground Water | | SW-846 8260C | |
| CW-2 | 16K0182-18 | Ground Water | | SW-846 8260C | |
| CW-1 | 16K0182-19 | Ground Water | | SW-846 8260C | |
| MW-116D | 16K0182-20 | Ground Water | | SW-846 8260C | |
| MW-116S | 16K0182-21 | Ground Water | | SW-846 8260C | |
| MW-216D | 16K0182-22 | Ground Water | | SW-846 8260C | |
| MW-216S | 16K0182-23 | Ground Water | | SW-846 8260C | |
| MW-217D | 16K0182-24 | Ground Water | | SW-846 8260C | |
| MW-217S | 16K0182-25 | Ground Water | | SW-846 8260C | |

con-test® ANALYTICAL LABORATORY
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**CASE NARRATIVE SUMMARY**

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

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

**SW-846 8015C**

**Qualifications:**

**O-31**

Sample chromatography does not match reference standard exactly, possibly due to weathering.

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

**Fuel Oil #2**
16K0182-11[CW-6], 16K0182-12[CW-6 DUP]

**SW-846 8260C**

**Qualifications:**

**DL-01**

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

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

16K0182-25[MW-217S]

**E**

Reported result is estimated. Value reported over verified calibration range.

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

**cis-1,2-Dichloroethylene**
16K0182-07[MW 101D]

**Tetrachloroethylene**
16K0182-07[MW 101D], 16K0182-09[MW 218D]

**L-02**

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

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

**Bromochloromethane**
B163045-BS1, B163045-BSD1

**Methyl Acetate**
B162909-BS1, B162909-BSD1, B163045-BS1, B163045-BSD1

**L-04**

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

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

**Methyl Acetate**
B162910-BS1, B162910-BSD1

**L-06**

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 high side.

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

**Isopropylbenzene (Cumene)**
B163045-BS1, B163045-BSD1

**L-07**

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

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

**Isopropylbenzene (Cumene)**
B162910-BS1

**Methylene Chloride**
B162909-BS1

**n-Butylbenzene**
B163045-BS1

**RL-11**

Elevated reporting limit due to high concentration of target compounds.

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

16K0182-05[MW 101S], 16K0182-06[MW 101S DUP], 16K0182-08[MW 201D], 16K0182-16[MW-112], 16K0182-17[MW-209D], 16K0182-19[CW-1]

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

**V-05**

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

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

**1,4-Dioxane**

16K0182-03[MW 202D], 16K0182-04[MW 202S], 16K0182-07[MW 101D], 16K0182-08[MW 201D], 16K0182-09[MW 218D], 16K0182-10[MW 218S], 16K0182-13[MW-109D], 16K0182-15[GZA-3], 16K0182-18[CW-2], 16K0182-20[MW-116D], 16K0182-21[MW-116S], 16K0182-22[MW-216D], 16K0182-23[MW-216S], 16K0182-24[MW-217D], 16K0182-25[MW-217S], B162910-BLK1, B162910-BS1, B162910-BSD1

**Chloromethane**

16K0182-01[MW 207S], 16K0182-02[MW 207D], 16K0182-05[MW 101S], 16K0182-06[MW 101S DUP], 16K0182-16[MW-112], 16K0182-17[MW-209D], 16K0182-19[CW-1], B162909-BLK1, B162909-BS1, B162909-BSD1, B163045-BLK1, B163045-BS1, B163045-BSD1

**V-06**

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

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

**cis-1,2-Dichloroethylene**

16K0182-19[CW-1], B163045-BS1, B163045-BSD1

**Isopropylbenzene (Cumene)**

B163045-BS1, B163045-BSD1

**V-20**

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

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

**Bromochloromethane**

B163045-BS1, B163045-BSD1

**Bromomethane**

B162909-BS1, B162909-BSD1, B162910-BS1, B162910-BSD1

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 207S** | Sampled: 11/1/2016 06:30

**Sample ID: 16K0182-01**

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 | 11/9/16 | 11/9/16 14:29 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 207S** | Sampled: 11/1/2016 06:30

**Sample ID: 16K0182-01**

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 | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Tetrachloroethylene | 7.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Trichloroethylene | 2.6 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:29 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/9/16 14:29 |
| Toluene-d8 | 100 | 70-130 | | 11/9/16 14:29 |
| 4-Bromofluorobenzene | 98.0 | 70-130 | | 11/9/16 14:29 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 207D** | Sampled: 11/1/2016 07:00

**Sample ID: 16K0182-02**

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 | 11/9/16 | 11/9/16 14:56 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 207D** | Sampled: 11/1/2016 07:00

**Sample ID: 16K0182-02**

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 | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Tetrachloroethylene | 1.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/9/16 14:56 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/9/16 14:56 |
| Toluene-d8 | 99.7 | 70-130 | | 11/9/16 14:56 |
| 4-Bromofluorobenzene | 98.0 | 70-130 | | 11/9/16 14:56 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 202D** | Sampled: 11/1/2016 07:30

**Sample ID: 16K0182-03**

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 | 11/9/16 | 11/10/16 1:11 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 202D** | Sampled: 11/1/2016 07:30

**Sample ID: 16K0182-03**

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 | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Tetrachloroethylene | 6.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:11 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/10/16 1:11 |
| Toluene-d8 | 100 | 70-130 | | 11/10/16 1:11 |
| 4-Bromofluorobenzene | 101 | 70-130 | | 11/10/16 1:11 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 202S** | Sampled: 11/1/2016 08:00

**Sample ID: 16K0182-04**

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 | 11/9/16 | 11/10/16 1:37 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 202S** | Sampled: 11/1/2016 08:00

**Sample ID: 16K0182-04**

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 | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Tetrachloroethylene | 23 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Trichloroethylene | 2.7 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 1:37 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/10/16 1:37 | |
| Toluene-d8 | 102 | 70-130 | | 11/10/16 1:37 | |
| 4-Bromofluorobenzene | 101 | 70-130 | | 11/10/16 1:37 | |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101S** | Sampled: 11/1/2016 08:45

**Sample ID: 16K0182-05**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 12000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Acrylonitrile | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Benzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Bromobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Bromochloromethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Bromodichloromethane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Bromoform | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Bromomethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 2-Butanone (MEK) | ND | 5000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 5000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| n-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| sec-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| tert-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Carbon Disulfide | ND | 1000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Carbon Tetrachloride | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Chlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Chlorodibromomethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Chloroethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Chloroform | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Chloromethane | ND | 500 | µg/L | 250 | V-05 | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 2-Chlorotoluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 4-Chlorotoluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Dibromomethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,3-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,4-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1-Dichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2-Dichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| cis-1,2-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| trans-1,2-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2-Dichloropropane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,3-Dichloropropane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 2,2-Dichloropropane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1-Dichloropropene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| cis-1,3-Dichloropropene | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| trans-1,3-Dichloropropene | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Diethyl Ether | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101S** | Sampled: 11/1/2016 08:45

**Sample ID: 16K0182-05**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,4-Dioxane | ND | 12000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Ethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Hexachlorobutadiene | ND | 150 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 2-Hexanone (MBK) | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Isopropylbenzene (Cumene) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Methyl Acetate | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Methyl Cyclohexane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Methylene Chloride | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Naphthalene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| n-Propylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Styrene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Tetrachloroethylene | 24000 | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Tetrahydrofuran | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Toluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2,3-Trichlorobenzene | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2,4-Trichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,3,5-Trichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1,1-Trichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1,2-Trichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Trichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2,3-Trichloropropane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,2,4-Trimethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| 1,3,5-Trimethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| Vinyl Chloride | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| m+p Xylene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |
| o-Xylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:13 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 70-130 | | 11/11/16 19:13 |
| Toluene-d8 | 100 | 70-130 | | 11/11/16 19:13 |
| 4-Bromofluorobenzene | 99.0 | 70-130 | | 11/11/16 19:13 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101S DUP** | Sampled: 11/1/2016 08:45

**Sample ID: 16K0182-06**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 12000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Acrylonitrile | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Benzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Bromobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Bromochloromethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Bromodichloromethane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Bromoform | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Bromomethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 2-Butanone (MEK) | ND | 5000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 5000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| n-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| sec-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| tert-Butylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Carbon Disulfide | ND | 1000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Carbon Tetrachloride | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Chlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Chlorodibromomethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Chloroethane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Chloroform | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Chloromethane | ND | 500 | µg/L | 250 | V-05 | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 2-Chlorotoluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 4-Chlorotoluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Dibromomethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,3-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,4-Dichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1-Dichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2-Dichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| cis-1,2-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| trans-1,2-Dichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2-Dichloropropane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,3-Dichloropropane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 2,2-Dichloropropane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1-Dichloropropene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| cis-1,3-Dichloropropene | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| trans-1,3-Dichloropropene | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Diethyl Ether | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101S DUP** | Sampled: 11/1/2016 08:45

**Sample ID: 16K0182-06**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,4-Dioxane | ND | 12000 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Ethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Hexachlorobutadiene | ND | 150 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 2-Hexanone (MBK) | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Isopropylbenzene (Cumene) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Methyl Acetate | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Methyl Cyclohexane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Methylene Chloride | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Naphthalene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| n-Propylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Styrene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 120 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Tetrachloroethylene | 24000 | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Tetrahydrofuran | ND | 2500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Toluene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2,3-Trichlorobenzene | ND | 1200 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2,4-Trichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,3,5-Trichlorobenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1,1-Trichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1,2-Trichloroethane | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Trichloroethylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2,3-Trichloropropane | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,2,4-Trimethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| 1,3,5-Trimethylbenzene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| Vinyl Chloride | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| m+p Xylene | ND | 500 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |
| o-Xylene | ND | 250 | µg/L | 250 | | SW-846 8260C | 11/10/16 | 11/11/16 19:40 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/11/16 19:40 |
| Toluene-d8 | 99.9 | 70-130 | | 11/11/16 19:40 |
| 4-Bromofluorobenzene | 99.0 | 70-130 | | 11/11/16 19:40 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101D** | Sampled: 11/1/2016 09:15

**Sample ID: 16K0182-07**

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 | 11/9/16 | 11/10/16 2:04 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| cis-1,2-Dichloroethylene | 530 | 1.0 | µg/L | 1 | E | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| cis-1,2-Dichloroethylene | 400 | 50 | µg/L | 50 | | SW-846 8260C | 11/14/16 | 11/14/16 17:13 | EEH |
| trans-1,2-Dichloroethylene | 1.1 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 101D** | Sampled: 11/1/2016 09:15

**Sample ID: 16K0182-07**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Tetrachloroethylene | 1300 | 1.0 | µg/L | 1 | E | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Tetrachloroethylene | 420 | 50 | µg/L | 50 | | SW-846 8260C | 11/14/16 | 11/14/16 17:13 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Trichloroethylene | 26 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:04 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/10/16 2:04 |
| 1,2-Dichloroethane-d4 | 122 | 70-130 | | 11/14/16 17:13 |
| Toluene-d8 | 100 | 70-130 | | 11/10/16 2:04 |
| Toluene-d8 | 101 | 70-130 | | 11/14/16 17:13 |
| 4-Bromofluorobenzene | 103 | 70-130 | | 11/10/16 2:04 |
| 4-Bromofluorobenzene | 97.9 | 70-130 | | 11/14/16 17:13 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 201D** | Sampled: 11/1/2016 10:00

**Sample ID: 16K0182-08**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 2500 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Acrylonitrile | ND | 250 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Benzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Bromobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Bromochloromethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Bromodichloromethane | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Bromoform | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Bromomethane | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 2-Butanone (MEK) | ND | 1000 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 1000 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| n-Butylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| sec-Butylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| tert-Butylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Carbon Disulfide | ND | 200 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Carbon Tetrachloride | ND | 250 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Chlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Chlorodibromomethane | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Chloroethane | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Chloroform | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Chloromethane | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 2-Chlorotoluene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 4-Chlorotoluene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 250 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Dibromomethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2-Dichlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,3-Dichlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,4-Dichlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1-Dichloroethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2-Dichloroethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1-Dichloroethylene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| cis-1,2-Dichloroethylene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| trans-1,2-Dichloroethylene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2-Dichloropropane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,3-Dichloropropane | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 2,2-Dichloropropane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1-Dichloropropene | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| cis-1,3-Dichloropropene | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| trans-1,3-Dichloropropene | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Diethyl Ether | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 201D** | Sampled: 11/1/2016 10:00

**Sample ID: 16K0182-08**

Sample Matrix: Ground Water

Sample Flags: RL-11

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,4-Dioxane | ND | 2500 | µg/L | 50 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Ethylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Hexachlorobutadiene | ND | 30 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 2-Hexanone (MBK) | ND | 500 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Isopropylbenzene (Cumene) | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Methyl Acetate | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Methyl Cyclohexane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Methylene Chloride | ND | 250 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 500 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Naphthalene | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| n-Propylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Styrene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 25 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Tetrachloroethylene | 8800 | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Tetrahydrofuran | ND | 500 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Toluene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2,3-Trichlorobenzene | ND | 250 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2,4-Trichlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,3,5-Trichlorobenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1,1-Trichloroethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1,2-Trichloroethane | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Trichloroethylene | 260 | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2,3-Trichloropropane | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,2,4-Trimethylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| 1,3,5-Trimethylbenzene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| Vinyl Chloride | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| m+p Xylene | ND | 100 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |
| o-Xylene | ND | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/10/16 10:33 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 | | 11/10/16 10:33 |
| Toluene-d8 | 100 | 70-130 | | 11/10/16 10:33 |
| 4-Bromofluorobenzene | 99.8 | 70-130 | | 11/10/16 10:33 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 218D** | Sampled: 11/1/2016 11:00

**Sample ID: 16K0182-09**

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 | 11/9/16 | 11/10/16 2:31 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Chloroform | 13 | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| cis-1,2-Dichloroethylene | 1.6 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 218D** | Sampled: 11/1/2016 11:00

**Sample ID: 16K0182-09**

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 | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Tetrachloroethylene | 450 | 1.0 | µg/L | 1 | E | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Tetrachloroethylene | 410 | 50 | µg/L | 50 | | SW-846 8260C | 11/9/16 | 11/11/16 21:27 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Trichloroethylene | 17 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:31 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/10/16 2:31 |
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/11/16 21:27 |
| Toluene-d8 | 99.7 | 70-130 | | 11/10/16 2:31 |
| Toluene-d8 | 101 | 70-130 | | 11/11/16 21:27 |
| 4-Bromofluorobenzene | 97.4 | 70-130 | | 11/10/16 2:31 |
| 4-Bromofluorobenzene | 97.9 | 70-130 | | 11/11/16 21:27 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 218S** | Sampled: 11/1/2016 11:45

**Sample ID: 16K0182-10**

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 | 11/9/16 | 11/10/16 2:58 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW 218S** | Sampled: 11/1/2016 11:45

**Sample ID: 16K0182-10**

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 | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Tetrachloroethylene | 57 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 2:58 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/10/16 2:58 |
| Toluene-d8 | 101 | 70-130 | | 11/10/16 2:58 |
| 4-Bromofluorobenzene | 98.7 | 70-130 | | 11/10/16 2:58 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-6** | Sampled: 11/2/2016 11:00

**Sample ID: 16K0182-11**

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Fuel Oil #2 | 4.7 | 0.20 | mg/L | 1 | O-31 | SW-846 8015C | 11/7/16 | 11/9/16 11:16 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| o-Terphenyl | 68.9 | 40-140 | | | 11/9/16 11:16 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-6 DUP** | Sampled: 11/2/2016 11:00

**Sample ID: 16K0182-12**

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Fuel Oil #2 | 5.1 | 0.20 | mg/L | 1 | O-31 | SW-846 8015C | 11/7/16 | 11/9/16 11:34 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| o-Terphenyl | 67.3 | 40-140 | | | 11/9/16 11:34 |

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Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-109D** | Sampled: 11/2/2016 12:00

**Sample ID: 16K0182-13**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-109D** | Sampled: 11/2/2016 12:00

**Sample ID: 16K0182-13**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:25 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 | | 11/10/16 3:25 |
| Toluene-d8 | 101 | 70-130 | | 11/10/16 3:25 |
| 4-Bromofluorobenzene | 98.4 | 70-130 | | 11/10/16 3:25 |

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Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-109D** | Sampled: 11/2/2016 12:00

**Sample ID: 16K0182-13**

Sample Matrix: Ground Water

**Metals Analyses (Dissolved)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A-B | 11/4/16 | 11/5/16 6:54 | MJH |

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Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-109D DUP** | Sampled: 11/2/2016 12:00

**Sample ID: 16K0182-14**

Sample Matrix: Ground Water

**Metals Analyses (Dissolved)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A-B | 11/4/16 | 11/5/16 6:57 | MJH |

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Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: GZA-3** | Sampled: 11/2/2016 13:00

**Sample ID: 16K0182-15**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| cis-1,2-Dichloroethylene | 5.5 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: GZA-3** | Sampled: 11/2/2016 13:00

**Sample ID: 16K0182-15**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| Vinyl Chloride | 17 | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 3:51 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/10/16 3:51 |
| Toluene-d8 | 99.8 | 70-130 | | 11/10/16 3:51 |
| 4-Bromofluorobenzene | 99.1 | 70-130 | | 11/10/16 3:51 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: GZA-3** | Sampled: 11/2/2016 13:00

**Sample ID: 16K0182-15**

Sample Matrix: Ground Water

**Metals Analyses (Dissolved)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A-B | 11/4/16 | 11/5/16 7:01 | MJH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-112** | Sampled: 11/1/2016 12:45

**Sample ID: 16K0182-16**

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 | 250 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Acrylonitrile | ND | 25 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Benzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Bromobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Bromochloromethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Bromodichloromethane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Bromoform | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Bromomethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 2-Butanone (MEK) | ND | 100 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 100 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| n-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| sec-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| tert-Butylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Carbon Disulfide | ND | 20 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Carbon Tetrachloride | ND | 25 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Chlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Chlorodibromomethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Chloroethane | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Chloroform | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Chloromethane | ND | 10 | µg/L | 5 | V-05 | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 2-Chlorotoluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 4-Chlorotoluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 25 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Dibromomethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,3-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,4-Dichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1-Dichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2-Dichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| cis-1,2-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| trans-1,2-Dichloroethylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2-Dichloropropane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,3-Dichloropropane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 2,2-Dichloropropane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1-Dichloropropene | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| cis-1,3-Dichloropropene | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| trans-1,3-Dichloropropene | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Diethyl Ether | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-112** | Sampled: 11/1/2016 12:45

**Sample ID: 16K0182-16**

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 | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,4-Dioxane | ND | 250 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Ethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Hexachlorobutadiene | ND | 3.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 2-Hexanone (MBK) | ND | 50 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Isopropylbenzene (Cumene) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Methyl Acetate | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Methyl Cyclohexane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Methylene Chloride | ND | 25 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 50 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Naphthalene | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| n-Propylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Styrene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Tetrachloroethylene | 420 | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Tetrahydrofuran | ND | 50 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Toluene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2,3-Trichlorobenzene | ND | 25 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2,4-Trichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,3,5-Trichlorobenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1,1-Trichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1,2-Trichloroethane | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Trichloroethylene | 9.2 | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2,3-Trichloropropane | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,2,4-Trimethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| 1,3,5-Trimethylbenzene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| Vinyl Chloride | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| m+p Xylene | ND | 10 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |
| o-Xylene | ND | 5.0 | µg/L | 5 | | SW-846 8260C | 11/10/16 | 11/11/16 20:07 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 | | 11/11/16 20:07 |
| Toluene-d8 | 99.2 | 70-130 | | 11/11/16 20:07 |
| 4-Bromofluorobenzene | 99.5 | 70-130 | | 11/11/16 20:07 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-209D** | Sampled: 11/1/2016 13:30

**Sample ID: 16K0182-17**

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 | 1200 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Acrylonitrile | ND | 120 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| tert-Amyl Methyl Ether (TAME) | 21 | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Benzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Bromobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Bromochloromethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Bromodichloromethane | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Bromoform | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Bromomethane | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 2-Butanone (MEK) | ND | 500 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 500 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| n-Butylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| sec-Butylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| tert-Butylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Carbon Disulfide | ND | 100 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Carbon Tetrachloride | ND | 120 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Chlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Chlorodibromomethane | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Chloroethane | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Chloroform | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Chloromethane | ND | 50 | µg/L | 25 | V-05 | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 2-Chlorotoluene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 4-Chlorotoluene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Dibromomethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2-Dichlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,3-Dichlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,4-Dichlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1-Dichloroethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2-Dichloroethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1-Dichloroethylene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| cis-1,2-Dichloroethylene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| trans-1,2-Dichloroethylene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2-Dichloropropane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,3-Dichloropropane | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 2,2-Dichloropropane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1-Dichloropropene | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| cis-1,3-Dichloropropene | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| trans-1,3-Dichloropropene | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Diethyl Ether | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-209D** | Sampled: 11/1/2016 13:30

**Sample ID: 16K0182-17**

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 | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,4-Dioxane | ND | 1200 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Ethylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Hexachlorobutadiene | ND | 15 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 2-Hexanone (MBK) | ND | 250 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Isopropylbenzene (Cumene) | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Methyl Acetate | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Methyl Cyclohexane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Methylene Chloride | ND | 120 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 250 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Naphthalene | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| n-Propylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Styrene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 12 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Tetrachloroethylene | 2400 | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Tetrahydrofuran | ND | 250 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Toluene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2,3-Trichlorobenzene | ND | 120 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2,4-Trichlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,3,5-Trichlorobenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1,1-Trichloroethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1,2-Trichloroethane | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Trichloroethylene | 140 | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2,3-Trichloropropane | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,2,4-Trimethylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| 1,3,5-Trimethylbenzene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| Vinyl Chloride | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| m+p Xylene | ND | 50 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |
| o-Xylene | ND | 25 | µg/L | 25 | | SW-846 8260C | 11/10/16 | 11/11/16 20:34 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | | 11/11/16 20:34 |
| Toluene-d8 | 100 | 70-130 | | 11/11/16 20:34 |
| 4-Bromofluorobenzene | 97.9 | 70-130 | | 11/11/16 20:34 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-2** | Sampled: 11/1/2016 14:45

**Sample ID: 16K0182-18**

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 | 11/9/16 | 11/10/16 4:18 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-2** | Sampled: 11/1/2016 14:45

**Sample ID: 16K0182-18**

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 | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:18 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | | 11/10/16 4:18 |
| Toluene-d8 | 102 | 70-130 | | 11/10/16 4:18 |
| 4-Bromofluorobenzene | 98.8 | 70-130 | | 11/10/16 4:18 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-1** | Sampled: 11/1/2016 15:30

**Sample ID: 16K0182-19**

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 | 2000 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Acrylonitrile | ND | 200 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Benzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Bromobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Bromochloromethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Bromodichloromethane | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Bromoform | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Bromomethane | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 2-Butanone (MEK) | ND | 800 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 800 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| n-Butylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| sec-Butylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| tert-Butylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Carbon Disulfide | ND | 160 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Carbon Tetrachloride | ND | 200 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Chlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Chlorodibromomethane | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Chloroethane | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Chloroform | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Chloromethane | ND | 80 | µg/L | 40 | V-05 | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 2-Chlorotoluene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 4-Chlorotoluene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 200 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Dibromomethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2-Dichlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,3-Dichlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,4-Dichlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1-Dichloroethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2-Dichloroethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1-Dichloroethylene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| cis-1,2-Dichloroethylene | 180 | 40 | µg/L | 40 | V-06 | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| trans-1,2-Dichloroethylene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2-Dichloropropane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,3-Dichloropropane | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 2,2-Dichloropropane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1-Dichloropropene | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| cis-1,3-Dichloropropene | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| trans-1,3-Dichloropropene | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Diethyl Ether | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: CW-1** | Sampled: 11/1/2016 15:30

**Sample ID: 16K0182-19**

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 | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,4-Dioxane | ND | 2000 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Ethylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Hexachlorobutadiene | ND | 24 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 2-Hexanone (MBK) | ND | 400 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Isopropylbenzene (Cumene) | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Methyl Acetate | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Methyl Cyclohexane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Methylene Chloride | ND | 200 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 400 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Naphthalene | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| n-Propylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Styrene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 20 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Tetrachloroethylene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Tetrahydrofuran | ND | 400 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Toluene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2,3-Trichlorobenzene | ND | 200 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2,4-Trichlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,3,5-Trichlorobenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1,1-Trichloroethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1,2-Trichloroethane | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Trichloroethylene | 3900 | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2,3-Trichloropropane | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,2,4-Trimethylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| 1,3,5-Trimethylbenzene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| Vinyl Chloride | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| m+p Xylene | ND | 80 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |
| o-Xylene | ND | 40 | µg/L | 40 | | SW-846 8260C | 11/10/16 | 11/11/16 21:00 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/11/16 21:00 |
| Toluene-d8 | 100 | 70-130 | | 11/11/16 21:00 |
| 4-Bromofluorobenzene | 98.8 | 70-130 | | 11/11/16 21:00 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-116D** | Sampled: 11/2/2016 06:30

**Sample ID: 16K0182-20**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-116D** | Sampled: 11/2/2016 06:30

**Sample ID: 16K0182-20**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Trichloroethylene | 2.5 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 4:45 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | | 11/10/16 4:45 |
| Toluene-d8 | 100 | 70-130 | | 11/10/16 4:45 |
| 4-Bromofluorobenzene | 99.0 | 70-130 | | 11/10/16 4:45 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-116S** | Sampled: 11/2/2016 07:15

**Sample ID: 16K0182-21**

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 | 11/9/16 | 11/10/16 6:58 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| cis-1,2-Dichloroethylene | 150 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-116S** | Sampled: 11/2/2016 07:15

**Sample ID: 16K0182-21**

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 | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Ethylbenzene | 3.2 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| p-Isopropyltoluene (p-Cymene) | 1.2 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Naphthalene | 19 | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Toluene | 1.6 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,2,4-Trimethylbenzene | 12 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| 1,3,5-Trimethylbenzene | 6.7 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| m+p Xylene | 4.6 | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |
| o-Xylene | 10 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:58 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 70-130 | | 11/10/16 6:58 |
| Toluene-d8 | 102 | 70-130 | | 11/10/16 6:58 |
| 4-Bromofluorobenzene | 101 | 70-130 | | 11/10/16 6:58 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-216D** | Sampled: 11/2/2016 08:15

**Sample ID: 16K0182-22**

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 | 11/9/16 | 11/10/16 5:11 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-216D** | Sampled: 11/2/2016 08:15

**Sample ID: 16K0182-22**

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 | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:11 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/10/16 5:11 |
| Toluene-d8 | 102 | 70-130 | | 11/10/16 5:11 |
| 4-Bromofluorobenzene | 102 | 70-130 | | 11/10/16 5:11 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-216S** | Sampled: 11/2/2016 09:00

**Sample ID: 16K0182-23**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-216S** | Sampled: 11/2/2016 09:00

**Sample ID: 16K0182-23**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 5:38 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | | | 11/10/16 5:38 |
| Toluene-d8 | 100 | 70-130 | | | 11/10/16 5:38 |
| 4-Bromofluorobenzene | 97.7 | 70-130 | | | 11/10/16 5:38 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-217D** | Sampled: 11/2/2016 09:45

**Sample ID: 16K0182-24**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Chlorodibromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| cis-1,2-Dichloroethylene | 41 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-217D** | Sampled: 11/2/2016 09:45

**Sample ID: 16K0182-24**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Hexachlorobutadiene | ND | 0.60 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Methyl Acetate | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Methyl Cyclohexane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Trichloroethylene | 8.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 11/9/16 | 11/10/16 6:05 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 | | 11/10/16 6:05 |
| Toluene-d8 | 101 | 70-130 | | 11/10/16 6:05 |
| 4-Bromofluorobenzene | 102 | 70-130 | | 11/10/16 6:05 |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-217S** | Sampled: 11/2/2016 10:15

**Sample ID: 16K0182-25**

Sample Matrix: Ground Water

Sample Flags: DL-01

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 100 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Acrylonitrile | ND | 10 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Benzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Bromobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Bromochloromethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Bromodichloromethane | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Bromoform | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Bromomethane | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 2-Butanone (MEK) | ND | 40 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 40 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| n-Butylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| sec-Butylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| tert-Butylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Carbon Disulfide | ND | 8.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Carbon Tetrachloride | ND | 10 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Chlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Chlorodibromomethane | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Chloroethane | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Chloroform | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Chloromethane | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 2-Chlorotoluene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 4-Chlorotoluene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Dibromomethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2-Dichlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,3-Dichlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,4-Dichlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1-Dichloroethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2-Dichloroethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1-Dichloroethylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| cis-1,2-Dichloroethylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| trans-1,2-Dichloroethylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2-Dichloropropane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 2,2-Dichloropropane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1-Dichloropropene | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| cis-1,3-Dichloropropene | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| trans-1,3-Dichloropropene | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Diethyl Ether | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |

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

Project Location: Textron Providence | Sample Description: | Work Order: 16K0182

Date Received: 11/3/2016

**Field Sample #: MW-217S** | Sampled: 11/2/2016 10:15

**Sample ID: 16K0182-25**

Sample Matrix: Ground Water

Sample Flags: DL-01

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Diisopropyl Ether (DIPE) | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,4-Dioxane | ND | 100 | µg/L | 2 | V-05 | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Ethylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Hexachlorobutadiene | ND | 1.2 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 2-Hexanone (MBK) | ND | 20 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Isopropylbenzene (Cumene) | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Methyl Acetate | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Methyl Cyclohexane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Methylene Chloride | ND | 10 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 20 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Naphthalene | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| n-Propylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Styrene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Tetrachloroethylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Tetrahydrofuran | ND | 20 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Toluene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2,3-Trichlorobenzene | ND | 10 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2,4-Trichlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,3,5-Trichlorobenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1,1-Trichloroethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1,2-Trichloroethane | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Trichloroethylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2,3-Trichloropropane | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,2,4-Trimethylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| 1,3,5-Trimethylbenzene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| Vinyl Chloride | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| m+p Xylene | ND | 4.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |
| o-Xylene | ND | 2.0 | µg/L | 2 | | SW-846 8260C | 11/9/16 | 11/10/16 6:32 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 | | 11/10/16 6:32 |
| Toluene-d8 | 101 | 70-130 | | 11/10/16 6:32 |
| 4-Bromofluorobenzene | 102 | 70-130 | | 11/10/16 6:32 |

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

## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-13 [MW-109D] | B162452 | 50.0 | 50.0 | 11/04/16 |
| 16K0182-14 [MW-109D DUP] | B162452 | 50.0 | 50.0 | 11/04/16 |
| 16K0182-15 [GZA-3] | B162452 | 50.0 | 50.0 | 11/04/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-11 [CW-6] | B162678 | 1000 | 1.00 | 11/07/16 |
| 16K0182-12 [CW-6 DUP] | B162678 | 1000 | 1.00 | 11/07/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-01 [MW 207S] | B162909 | 5 | 5.00 | 11/09/16 |
| 16K0182-02 [MW 207D] | B162909 | 5 | 5.00 | 11/09/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-03 [MW 202D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-04 [MW 202S] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-07 [MW 101D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-08 [MW 201D] | B162910 | 0.1 | 5.00 | 11/09/16 |
| 16K0182-09 [MW 218D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-10 [MW 218S] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-13 [MW-109D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-15 [GZA-3] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-18 [CW-2] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-20 [MW-116D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-21 [MW-116S] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-22 [MW-216D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-23 [MW-216S] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-24 [MW-217D] | B162910 | 5 | 5.00 | 11/09/16 |
| 16K0182-25 [MW-217S] | B162910 | 2.5 | 5.00 | 11/09/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-05 [MW 101S] | B163045 | 0.02 | 5.00 | 11/10/16 |
| 16K0182-06 [MW 101S DUP] | B163045 | 0.02 | 5.00 | 11/10/16 |
| 16K0182-09RE1 [MW 218D] | B163045 | 0.1 | 5.00 | 11/09/16 |
| 16K0182-16 [MW-112] | B163045 | 1 | 5.00 | 11/10/16 |
| 16K0182-17 [MW-209D] | B163045 | 0.2 | 5.00 | 11/10/16 |
| 16K0182-19 [CW-1] | B163045 | 0.125 | 5.00 | 11/10/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 16K0182-07RE1 [MW 101D] | B163289 | 0.1 | 5.00 | 11/14/16 |

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**Sample Extraction Data**

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162909 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B162909-BLK1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | V-05 |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162909 - SW-846 5030B** | | | | | | | | | | | |
| **Blank (B162909-BLK1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Tetrahydrofuran | ND | 10 | µg/L | | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.2* | | µg/L | 25.0 | | 105 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.2* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.1* | | µg/L | 25.0 | | 100 | 70-130 | | | | |
| **LCS (B162909-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Acetone | 91.8 | 50 | µg/L | 101 | | 90.7 | 70-160 | | | | † |
| Acrylonitrile | 10.3 | 5.0 | µg/L | 10.1 | | 102 | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 9.42 | 0.50 | µg/L | 10.1 | | 93.1 | 70-130 | | | | |
| Benzene | 11.0 | 1.0 | µg/L | 10.1 | | 109 | 70-130 | | | | |
| Bromobenzene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | | | | |
| Bromochloromethane | 12.3 | 1.0 | µg/L | 10.1 | | 122 | 70-130 | | | | |
| Bromodichloromethane | 11.0 | 0.50 | µg/L | 10.1 | | 109 | 70-130 | | | | |
| Bromoform | 9.65 | 1.0 | µg/L | 10.1 | | 95.4 | 70-130 | | | | |
| Bromomethane | 6.92 | 2.0 | µg/L | 10.1 | | 68.4 | 40-160 | | | V-20 | † |
| 2-Butanone (MEK) | 101 | 20 | µg/L | 101 | | 99.6 | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 92.5 | 20 | µg/L | 101 | | 91.4 | 40-160 | | | | † |
| n-Butylbenzene | 12.0 | 1.0 | µg/L | 10.1 | | 118 | 70-130 | | | | |
| sec-Butylbenzene | 11.4 | 1.0 | µg/L | 10.1 | | 113 | 70-130 | | | | |
| tert-Butylbenzene | 11.1 | 1.0 | µg/L | 10.1 | | 110 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.2 | 0.50 | µg/L | 10.1 | | 101 | 70-130 | | | | |
| Carbon Disulfide | 9.47 | 4.0 | µg/L | 10.1 | | 93.6 | 70-130 | | | | |
| Carbon Tetrachloride | 10.7 | 5.0 | µg/L | 10.1 | | 106 | 70-130 | | | | |
| Chlorobenzene | 10.8 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | | | | |
| Chlorodibromomethane | 10.2 | 0.50 | µg/L | 10.1 | | 101 | 70-130 | | | | |
| Chloroethane | 9.55 | 2.0 | µg/L | 10.1 | | 94.4 | 70-130 | | | | |
| Chloroform | 11.2 | 2.0 | µg/L | 10.1 | | 111 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162909 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B162909-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | | |
| Chloromethane | 6.48 | 2.0 | µg/L | 10.1 | | 64.0 | | 40-160 | | | V-05 | † |
| 2-Chlorotoluene | 11.0 | 1.0 | µg/L | 10.1 | | 109 | | 70-130 | | | | |
| 4-Chlorotoluene | 11.1 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.1 | 5.0 | µg/L | 10.1 | | 99.4 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 11.1 | 0.50 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| Dibromomethane | 11.1 | 1.0 | µg/L | 10.1 | | 109 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 11.1 | 1.0 | µg/L | 10.1 | | 109 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 11.3 | 1.0 | µg/L | 10.1 | | 112 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 10.5 | 1.0 | µg/L | 10.1 | | 104 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 8.93 | 2.0 | µg/L | 10.1 | | 88.2 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 6.22 | 2.0 | µg/L | 10.1 | | 61.5 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 11.4 | 1.0 | µg/L | 10.1 | | 112 | | 70-130 | | | | |
| 1,2-Dichloroethane | 11.1 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.9 | 1.0 | µg/L | 10.1 | | 107 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 11.2 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 11.1 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | | 70-130 | | | | |
| 1,3-Dichloropropane | 10.8 | 0.50 | µg/L | 10.1 | | 107 | | 70-130 | | | | |
| 2,2-Dichloropropane | 10.8 | 1.0 | µg/L | 10.1 | | 107 | | 40-130 | | | | † |
| 1,1-Dichloropropene | 11.1 | 2.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 9.71 | 0.50 | µg/L | 10.1 | | 95.9 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 11.5 | 0.50 | µg/L | 10.1 | | 114 | | 70-130 | | | | |
| Diethyl Ether | 9.99 | 2.0 | µg/L | 10.1 | | 98.7 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 10.3 | 0.50 | µg/L | 10.1 | | 102 | | 70-130 | | | | |
| 1,4-Dioxane | 75.8 | 50 | µg/L | 101 | | 74.9 | | 40-130 | | | | † |
| Ethylbenzene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | | 70-130 | | | | |
| Hexachlorobutadiene | 11.9 | 0.60 | µg/L | 10.1 | | 117 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 93.2 | 10 | µg/L | 101 | | 92.1 | | 70-160 | | | | † |
| Isopropylbenzene (Cumene) | 12.9 | 1.0 | µg/L | 10.1 | | 127 | | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 11.0 | 1.0 | µg/L | 10.1 | | 109 | | 70-130 | | | | |
| **Methyl Acetate** | 16.4 | 1.0 | µg/L | 10.1 | | **162** | * | 70-130 | | | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.61 | 1.0 | µg/L | 10.1 | | 95.0 | | 70-130 | | | | |
| Methyl Cyclohexane | 10.6 | 1.0 | µg/L | 10.1 | | 104 | | 70-130 | | | | |
| **Methylene Chloride** | 13.3 | 5.0 | µg/L | 10.1 | | **131** | * | 70-130 | | | L-07 | |
| 4-Methyl-2-pentanone (MIBK) | 101 | 10 | µg/L | 101 | | 100 | | 70-160 | | | | † |
| Naphthalene | 10.5 | 2.0 | µg/L | 10.1 | | 104 | | 40-130 | | | | † |
| n-Propylbenzene | 11.2 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| Styrene | 11.0 | 1.0 | µg/L | 10.1 | | 109 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.6 | 1.0 | µg/L | 10.1 | | 104 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 10.8 | 0.50 | µg/L | 10.1 | | 107 | | 70-130 | | | | |
| Tetrachloroethylene | 11.2 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| Tetrahydrofuran | 11.6 | 10 | µg/L | 10.1 | | 115 | | 70-130 | | | | |
| Toluene | 11.1 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 9.68 | 5.0 | µg/L | 10.1 | | 95.7 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 9.98 | 1.0 | µg/L | 10.1 | | 98.6 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 10.2 | 1.0 | µg/L | 10.1 | | 100 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.4 | 1.0 | µg/L | 10.1 | | 113 | | 70-130 | | | | |
| Trichloroethylene | 11.3 | 1.0 | µg/L | 10.1 | | 112 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.7 | 2.0 | µg/L | 10.1 | | 106 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 10.4 | 2.0 | µg/L | 10.1 | | 102 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162909 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B162909-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.1 | 1.0 | µg/L | 10.1 | | 99.8 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 11.1 | 1.0 | µg/L | 10.1 | | 110 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 11.2 | 1.0 | µg/L | 10.1 | | 111 | 70-130 | | | | |
| Vinyl Chloride | 8.85 | 2.0 | µg/L | 10.1 | | 87.5 | 40-160 | | | | † |
| m+p Xylene | 21.6 | 2.0 | µg/L | 20.2 | | 107 | 70-130 | | | | |
| o-Xylene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.7* | | µg/L | 25.0 | | 107 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.8* | | µg/L | 25.0 | | 103 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.6* | | µg/L | 25.0 | | 98.4 | 70-130 | | | | |
| **LCS Dup (B162909-BSD1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Acetone | 86.7 | 50 | µg/L | 101 | | 85.6 | 70-160 | 5.69 | 25 | | † |
| Acrylonitrile | 9.59 | 5.0 | µg/L | 10.1 | | 94.8 | 70-130 | 7.53 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 9.26 | 0.50 | µg/L | 10.1 | | 91.5 | 70-130 | 1.71 | 25 | | |
| Benzene | 10.6 | 1.0 | µg/L | 10.1 | | 105 | 70-130 | 3.60 | 25 | | |
| Bromobenzene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | 0.275 | 25 | | |
| Bromochloromethane | 12.0 | 1.0 | µg/L | 10.1 | | 119 | 70-130 | 2.54 | 25 | | |
| Bromodichloromethane | 10.6 | 0.50 | µg/L | 10.1 | | 104 | 70-130 | 4.45 | 25 | | |
| Bromoform | 9.64 | 1.0 | µg/L | 10.1 | | 95.3 | 70-130 | 0.104 | 25 | | |
| Bromomethane | 7.56 | 2.0 | µg/L | 10.1 | | 74.7 | 40-160 | 8.84 | 25 | V-20 | † |
| 2-Butanone (MEK) | 99.4 | 20 | µg/L | 101 | | 98.2 | 40-160 | 1.35 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 86.9 | 20 | µg/L | 101 | | 85.9 | 40-160 | 6.24 | 25 | | † |
| n-Butylbenzene | 11.7 | 1.0 | µg/L | 10.1 | | 116 | 70-130 | 2.36 | 25 | | |
| sec-Butylbenzene | 11.2 | 1.0 | µg/L | 10.1 | | 111 | 70-130 | 2.03 | 25 | | |
| tert-Butylbenzene | 11.1 | 1.0 | µg/L | 10.1 | | 109 | 70-130 | 0.541 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.3 | 0.50 | µg/L | 10.1 | | 102 | 70-130 | 0.585 | 25 | | |
| Carbon Disulfide | 8.70 | 4.0 | µg/L | 10.1 | | 86.0 | 70-130 | 8.48 | 25 | | |
| Carbon Tetrachloride | 10.4 | 5.0 | µg/L | 10.1 | | 103 | 70-130 | 2.74 | 25 | | |
| Chlorobenzene | 10.8 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | 0.0924 | 25 | | |
| Chlorodibromomethane | 9.79 | 0.50 | µg/L | 10.1 | | 96.7 | 70-130 | 3.91 | 25 | | |
| Chloroethane | 9.54 | 2.0 | µg/L | 10.1 | | 94.3 | 70-130 | 0.105 | 25 | | |
| Chloroform | 10.9 | 2.0 | µg/L | 10.1 | | 107 | 70-130 | 2.99 | 25 | | |
| Chloromethane | 6.53 | 2.0 | µg/L | 10.1 | | 64.5 | 40-160 | 0.769 | 25 | V-05 | † |
| 2-Chlorotoluene | 10.9 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | 1.46 | 25 | | |
| 4-Chlorotoluene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | 1.36 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 9.90 | 5.0 | µg/L | 10.1 | | 97.8 | 70-130 | 1.60 | 25 | | |
| 1,2-Dibromoethane (EDB) | 10.8 | 0.50 | µg/L | 10.1 | | 107 | 70-130 | 2.64 | 25 | | |
| Dibromomethane | 10.8 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | 2.28 | 25 | | |
| 1,2-Dichlorobenzene | 10.9 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | 1.82 | 25 | | |
| 1,3-Dichlorobenzene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | 3.78 | 25 | | |
| 1,4-Dichlorobenzene | 10.5 | 1.0 | µg/L | 10.1 | | 104 | 70-130 | 0.0953 | 25 | | |
| trans-1,4-Dichloro-2-butene | 9.00 | 2.0 | µg/L | 10.1 | | 88.9 | 70-130 | 0.781 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 5.81 | 2.0 | µg/L | 10.1 | | 57.4 | 40-160 | 6.82 | 25 | | † |
| 1,1-Dichloroethane | 11.4 | 1.0 | µg/L | 10.1 | | 112 | 70-130 | 0.0879 | 25 | | |
| 1,2-Dichloroethane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | 70-130 | 4.51 | 25 | | |
| 1,1-Dichloroethylene | 10.5 | 1.0 | µg/L | 10.1 | | 104 | 70-130 | 3.27 | 25 | | |
| cis-1,2-Dichloroethylene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | 70-130 | 2.08 | 25 | | |
| trans-1,2-Dichloroethylene | 10.8 | 1.0 | µg/L | 10.1 | | 107 | 70-130 | 2.65 | 25 | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | 70-130 | 0.282 | 25 | | |
| 1,3-Dichloropropane | 10.4 | 0.50 | µg/L | 10.1 | | 102 | 70-130 | 4.72 | 25 | | |
| 2,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | 40-130 | 2.05 | 25 | | † |
| 1,1-Dichloropropene | 10.7 | 2.0 | µg/L | 10.1 | | 105 | 70-130 | 4.13 | 25 | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162909 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B162909-BSD1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | | |
| cis-1,3-Dichloropropene | 9.59 | 0.50 | µg/L | 10.1 | | 94.8 | | 70-130 | 1.24 | 25 | | |
| trans-1,3-Dichloropropene | 11.1 | 0.50 | µg/L | 10.1 | | 110 | | 70-130 | 3.27 | 25 | | |
| Diethyl Ether | 9.89 | 2.0 | µg/L | 10.1 | | 97.7 | | 70-130 | 1.01 | 25 | | |
| Diisopropyl Ether (DIPE) | 10.2 | 0.50 | µg/L | 10.1 | | 100 | | 70-130 | 1.76 | 25 | | |
| 1,4-Dioxane | 77.6 | 50 | µg/L | 101 | | 76.7 | | 40-130 | 2.37 | 50 | | † ‡ |
| Ethylbenzene | 11.0 | 1.0 | µg/L | 10.1 | | 108 | | 70-130 | 0.183 | 25 | | |
| Hexachlorobutadiene | 11.4 | 0.60 | µg/L | 10.1 | | 112 | | 70-130 | 4.13 | 25 | | |
| 2-Hexanone (MBK) | 91.0 | 10 | µg/L | 101 | | 90.0 | | 70-160 | 2.38 | 25 | | † |
| Isopropylbenzene (Cumene) | 13.0 | 1.0 | µg/L | 10.1 | | 128 | | 70-130 | 0.696 | 25 | | |
| p-Isopropyltoluene (p-Cymene) | 11.0 | 1.0 | µg/L | 10.1 | | 108 | | 70-130 | 0.454 | 25 | | |
| **Methyl Acetate** | 16.1 | 1.0 | µg/L | 10.1 | | **159** | * | 70-130 | 1.72 | 25 | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 9.62 | 1.0 | µg/L | 10.1 | | 95.1 | | 70-130 | 0.104 | 25 | | |
| Methyl Cyclohexane | 10.2 | 1.0 | µg/L | 10.1 | | 100 | | 70-130 | 3.96 | 25 | | |
| Methylene Chloride | 13.0 | 5.0 | µg/L | 10.1 | | 128 | | 70-130 | 2.36 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 98.3 | 10 | µg/L | 101 | | 97.1 | | 70-160 | 2.89 | 25 | | † |
| Naphthalene | 10.2 | 2.0 | µg/L | 10.1 | | 101 | | 40-130 | 2.31 | 25 | | † |
| n-Propylbenzene | 11.2 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | 0.0896 | 25 | | |
| Styrene | 10.9 | 1.0 | µg/L | 10.1 | | 108 | | 70-130 | 1.28 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.8 | 1.0 | µg/L | 10.1 | | 107 | | 70-130 | 2.34 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 10.7 | 0.50 | µg/L | 10.1 | | 106 | | 70-130 | 1.02 | 25 | | |
| Tetrachloroethylene | 10.7 | 1.0 | µg/L | 10.1 | | 106 | | 70-130 | 4.39 | 25 | | |
| Tetrahydrofuran | 11.4 | 10 | µg/L | 10.1 | | 112 | | 70-130 | 2.00 | 25 | | |
| Toluene | 10.7 | 1.0 | µg/L | 10.1 | | 106 | | 70-130 | 4.12 | 25 | | |
| 1,2,3-Trichlorobenzene | 9.37 | 5.0 | µg/L | 10.1 | | 92.6 | | 70-130 | 3.25 | 25 | | |
| 1,2,4-Trichlorobenzene | 9.91 | 1.0 | µg/L | 10.1 | | 97.9 | | 70-130 | 0.704 | 25 | | |
| 1,3,5-Trichlorobenzene | 9.78 | 1.0 | µg/L | 10.1 | | 96.6 | | 70-130 | 3.91 | 25 | | |
| 1,1,1-Trichloroethane | 10.6 | 1.0 | µg/L | 10.1 | | 105 | | 70-130 | 0.377 | 25 | | |
| 1,1,2-Trichloroethane | 10.8 | 1.0 | µg/L | 10.1 | | 107 | | 70-130 | 5.59 | 25 | | |
| Trichloroethylene | 10.8 | 1.0 | µg/L | 10.1 | | 107 | | 70-130 | 4.06 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 10.2 | 2.0 | µg/L | 10.1 | | 101 | | 70-130 | 4.59 | 25 | | |
| 1,2,3-Trichloropropane | 10.3 | 2.0 | µg/L | 10.1 | | 102 | | 70-130 | 0.387 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.61 | 1.0 | µg/L | 10.1 | | 95.0 | | 70-130 | 4.97 | 25 | | |
| 1,2,4-Trimethylbenzene | 10.7 | 1.0 | µg/L | 10.1 | | 106 | | 70-130 | 3.94 | 25 | | |
| 1,3,5-Trimethylbenzene | 11.2 | 1.0 | µg/L | 10.1 | | 110 | | 70-130 | 0.536 | 25 | | |
| Vinyl Chloride | 8.59 | 2.0 | µg/L | 10.1 | | 84.9 | | 40-160 | 2.98 | 25 | | † |
| m+p Xylene | 21.9 | 2.0 | µg/L | 20.2 | | 108 | | 70-130 | 1.28 | 25 | | |
| o-Xylene | 10.8 | 1.0 | µg/L | 10.1 | | 107 | | 70-130 | 0.461 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.2* | | µg/L | 25.0 | | 105 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.5* | | µg/L | 25.0 | | 102 | | 70-130 | | | | |
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B162910-BLK1)** | | | | Prepared: 11/09/16 Analyzed: 11/10/16 | | | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B162910-BLK1)** | | | | Prepared: 11/09/16 Analyzed: 11/10/16 | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | V-05 |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | | |
| **Blank (B162910-BLK1)** | | | | Prepared: 11/09/16 Analyzed: 11/10/16 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Tetrahydrofuran | ND | 10 | µg/L | | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.9* | | µg/L | 25.0 | | 104 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.3* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.5* | | µg/L | 25.0 | | 98.1 | 70-130 | | | | |
| **LCS (B162910-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Acetone | 94.8 | 50 | µg/L | 100 | | 94.8 | 70-160 | | | | † |
| Acrylonitrile | 9.80 | 5.0 | µg/L | 10.0 | | 98.0 | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 8.44 | 0.50 | µg/L | 10.0 | | 84.4 | 70-130 | | | | |
| Benzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| Bromobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| Bromochloromethane | 12.0 | 1.0 | µg/L | 10.0 | | 120 | 70-130 | | | | |
| Bromodichloromethane | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | | | | |
| Bromoform | 9.71 | 1.0 | µg/L | 10.0 | | 97.1 | 70-130 | | | | |
| Bromomethane | 6.82 | 2.0 | µg/L | 10.0 | | 68.2 | 40-160 | | | V-20 | † |
| 2-Butanone (MEK) | 98.4 | 20 | µg/L | 100 | | 98.4 | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 86.1 | 20 | µg/L | 100 | | 86.1 | 40-160 | | | | † |
| n-Butylbenzene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | | | | |
| sec-Butylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | | | |
| tert-Butylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 9.30 | 0.50 | µg/L | 10.0 | | 93.0 | 70-130 | | | | |
| Carbon Disulfide | 9.76 | 4.0 | µg/L | 10.0 | | 97.6 | 70-130 | | | | |
| Carbon Tetrachloride | 10.7 | 5.0 | µg/L | 10.0 | | 107 | 70-130 | | | | |
| Chlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |
| Chlorodibromomethane | 9.81 | 0.50 | µg/L | 10.0 | | 98.1 | 70-130 | | | | |
| Chloroethane | 9.76 | 2.0 | µg/L | 10.0 | | 97.6 | 70-130 | | | | |
| Chloroform | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| Chloromethane | 6.53 | 2.0 | µg/L | 10.0 | | 65.3 | 40-160 | | | | † |
| 2-Chlorotoluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| 4-Chlorotoluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 9.95 | 5.0 | µg/L | 10.0 | | 99.5 | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 10.9 | 0.50 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| Dibromomethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | | | | |
| 1,2-Dichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | | |
| 1,3-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B162910-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | | |
| 1,4-Dichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 8.48 | 2.0 | µg/L | 10.0 | | 84.8 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 6.17 | 2.0 | µg/L | 10.0 | | 61.7 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| 1,2-Dichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 1,2-Dichloropropane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 1,3-Dichloropropane | 10.5 | 0.50 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| 2,2-Dichloropropane | 9.67 | 1.0 | µg/L | 10.0 | | 96.7 | | 40-130 | | | | † |
| 1,1-Dichloropropene | 11.0 | 2.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 9.70 | 0.50 | µg/L | 10.0 | | 97.0 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 10.6 | 0.50 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| Diethyl Ether | 9.90 | 2.0 | µg/L | 10.0 | | 99.0 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | | 70-130 | | | | |
| 1,4-Dioxane | 69.8 | 50 | µg/L | 100 | | 69.8 | | 40-130 | | | V-05 | † |
| Ethylbenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Hexachlorobutadiene | 11.7 | 0.60 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 91.8 | 10 | µg/L | 100 | | 91.8 | | 70-160 | | | | † |
| **Isopropylbenzene (Cumene)** | 13.3 | 1.0 | µg/L | 10.0 | | **133** | * | 70-130 | | | L-07 | |
| p-Isopropyltoluene (p-Cymene) | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| **Methyl Acetate** | 16.1 | 1.0 | µg/L | 10.0 | | **161** | * | 70-130 | | | L-04 | |
| Methyl tert-Butyl Ether (MTBE) | 8.62 | 1.0 | µg/L | 10.0 | | 86.2 | | 70-130 | | | | |
| Methyl Cyclohexane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | | | | |
| Methylene Chloride | 11.8 | 5.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 98.2 | 10 | µg/L | 100 | | 98.2 | | 70-160 | | | | † |
| Naphthalene | 10.2 | 2.0 | µg/L | 10.0 | | 102 | | 40-130 | | | | † |
| n-Propylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Styrene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 10.6 | 0.50 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| Tetrachloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Tetrahydrofuran | 11.3 | 10 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| Toluene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 9.34 | 5.0 | µg/L | 10.0 | | 93.4 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 9.96 | 1.0 | µg/L | 10.0 | | 99.6 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 9.75 | 1.0 | µg/L | 10.0 | | 97.5 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Trichloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 10.7 | 2.0 | µg/L | 10.0 | | 107 | | 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) | 9.97 | 1.0 | µg/L | 10.0 | | 99.7 | | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | | | | |
| Vinyl Chloride | 9.43 | 2.0 | µg/L | 10.0 | | 94.3 | | 40-160 | | | | † |
| m+p Xylene | 22.1 | 2.0 | µg/L | 20.0 | | 111 | | 70-130 | | | | |
| o-Xylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.1* | | µg/L | 25.0 | | 104 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.0* | | µg/L | 25.0 | | 100 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B162910-BS1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.3* | | µg/L | 25.0 | | 101 | 70-130 | | | | |
| **LCS Dup (B162910-BSD1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | |
| Acetone | 98.5 | 50 | µg/L | 100 | | 98.5 | 70-160 | 3.89 | 25 | | † |
| Acrylonitrile | 9.74 | 5.0 | µg/L | 10.0 | | 97.4 | 70-130 | 0.614 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 9.40 | 0.50 | µg/L | 10.0 | | 94.0 | 70-130 | 10.8 | 25 | | |
| Benzene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | 1.85 | 25 | | |
| Bromobenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 3.17 | 25 | | |
| Bromochloromethane | 12.2 | 1.0 | µg/L | 10.0 | | 122 | 70-130 | 1.16 | 25 | | |
| Bromodichloromethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | 5.78 | 25 | | |
| Bromoform | 9.64 | 1.0 | µg/L | 10.0 | | 96.4 | 70-130 | 0.724 | 25 | | |
| Bromomethane | 7.29 | 2.0 | µg/L | 10.0 | | 72.9 | 40-160 | 6.66 | 25 | V-20 | † |
| 2-Butanone (MEK) | 104 | 20 | µg/L | 100 | | 104 | 40-160 | 5.17 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 89.3 | 20 | µg/L | 100 | | 89.3 | 40-160 | 3.67 | 25 | | † |
| n-Butylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 2.79 | 25 | | |
| sec-Butylbenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 2.48 | 25 | | |
| tert-Butylbenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 3.49 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | 9.52 | 25 | | |
| Carbon Disulfide | 9.31 | 4.0 | µg/L | 10.0 | | 93.1 | 70-130 | 4.72 | 25 | | |
| Carbon Tetrachloride | 10.8 | 5.0 | µg/L | 10.0 | | 108 | 70-130 | 0.743 | 25 | | |
| Chlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.57 | 25 | | |
| Chlorodibromomethane | 10.0 | 0.50 | µg/L | 10.0 | | 100 | 70-130 | 2.22 | 25 | | |
| Chloroethane | 9.61 | 2.0 | µg/L | 10.0 | | 96.1 | 70-130 | 1.55 | 25 | | |
| Chloroform | 11.0 | 2.0 | µg/L | 10.0 | | 110 | 70-130 | 0.365 | 25 | | |
| Chloromethane | 6.50 | 2.0 | µg/L | 10.0 | | 65.0 | 40-160 | 0.460 | 25 | | † |
| 2-Chlorotoluene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | 7.00 | 25 | | |
| 4-Chlorotoluene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 2.44 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.1 | 5.0 | µg/L | 10.0 | | 101 | 70-130 | 1.30 | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.0 | 0.50 | µg/L | 10.0 | | 110 | 70-130 | 1.19 | 25 | | |
| Dibromomethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.28 | 25 | | |
| 1,2-Dichlorobenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 0.737 | 25 | | |
| 1,3-Dichlorobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 2.51 | 25 | | |
| 1,4-Dichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.567 | 25 | | |
| trans-1,4-Dichloro-2-butene | 8.44 | 2.0 | µg/L | 10.0 | | 84.4 | 70-130 | 0.473 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 5.99 | 2.0 | µg/L | 10.0 | | 59.9 | 40-160 | 2.96 | 25 | | † |
| 1,1-Dichloroethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 1.23 | 25 | | |
| 1,2-Dichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 1.41 | 25 | | |
| 1,1-Dichloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 0.0926 | 25 | | |
| cis-1,2-Dichloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 0.989 | 25 | | |
| trans-1,2-Dichloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 1.34 | 25 | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 0.948 | 25 | | |
| 1,3-Dichloropropane | 10.5 | 0.50 | µg/L | 10.0 | | 105 | 70-130 | 0.00 | 25 | | |
| 2,2-Dichloropropane | 10.2 | 1.0 | µg/L | 10.0 | | 102 | 40-130 | 5.53 | 25 | | † |
| 1,1-Dichloropropene | 10.7 | 2.0 | µg/L | 10.0 | | 107 | 70-130 | 2.67 | 25 | | |
| cis-1,3-Dichloropropene | 9.51 | 0.50 | µg/L | 10.0 | | 95.1 | 70-130 | 1.98 | 25 | | |
| trans-1,3-Dichloropropene | 11.3 | 0.50 | µg/L | 10.0 | | 113 | 70-130 | 5.75 | 25 | | |
| Diethyl Ether | 10.1 | 2.0 | µg/L | 10.0 | | 101 | 70-130 | 1.90 | 25 | | |
| Diisopropyl Ether (DIPE) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | 0.393 | 25 | | |
| 1,4-Dioxane | 68.9 | 50 | µg/L | 100 | | 68.9 | 40-130 | 1.31 | 50 | V-05 | † ‡ |
| Ethylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 2.29 | 25 | | |
| Hexachlorobutadiene | 11.4 | 0.60 | µg/L | 10.0 | | 114 | 70-130 | 2.51 | 25 | | |
| 2-Hexanone (MBK) | 97.4 | 10 | µg/L | 100 | | 97.4 | 70-160 | 5.86 | 25 | | † |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162910 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B162910-BSD1)** | | | | Prepared & Analyzed: 11/09/16 | | | | | | | | |
| Isopropylbenzene (Cumene) | 12.8 | 1.0 | µg/L | 10.0 | | 128 | | 70-130 | 3.45 | 25 | | |
| p-Isopropyltoluene (p-Cymene) | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 3.25 | 25 | | |
| **Methyl Acetate** | 16.5 | 1.0 | µg/L | 10.0 | | **165** | * | 70-130 | 2.45 | 25 | L-04 | |
| Methyl tert-Butyl Ether (MTBE) | 9.52 | 1.0 | µg/L | 10.0 | | 95.2 | | 70-130 | 9.92 | 25 | | |
| Methyl Cyclohexane | 10.2 | 1.0 | µg/L | 10.0 | | 102 | | 70-130 | 3.39 | 25 | | |
| Methylene Chloride | 11.6 | 5.0 | µg/L | 10.0 | | 116 | | 70-130 | 0.855 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 102 | 10 | µg/L | 100 | | 102 | | 70-160 | 4.02 | 25 | | † |
| Naphthalene | 10.7 | 2.0 | µg/L | 10.0 | | 107 | | 40-130 | 5.28 | 25 | | † |
| n-Propylbenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 1.09 | 25 | | |
| Styrene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 3.80 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 3.37 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 10.6 | 0.50 | µg/L | 10.0 | | 106 | | 70-130 | 0.0945 | 25 | | |
| Tetrachloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 1.54 | 25 | | |
| Tetrahydrofuran | 11.8 | 10 | µg/L | 10.0 | | 118 | | 70-130 | 4.34 | 25 | | |
| Toluene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 0.369 | 25 | | |
| 1,2,3-Trichlorobenzene | 9.99 | 5.0 | µg/L | 10.0 | | 99.9 | | 70-130 | 6.73 | 25 | | |
| 1,2,4-Trichlorobenzene | 10.1 | 1.0 | µg/L | 10.0 | | 101 | | 70-130 | 1.30 | 25 | | |
| 1,3,5-Trichlorobenzene | 9.51 | 1.0 | µg/L | 10.0 | | 95.1 | | 70-130 | 2.49 | 25 | | |
| 1,1,1-Trichloroethane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 0.375 | 25 | | |
| 1,1,2-Trichloroethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 0.271 | 25 | | |
| Trichloroethylene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 2.86 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 10.4 | 2.0 | µg/L | 10.0 | | 104 | | 70-130 | 3.02 | 25 | | |
| 1,2,3-Trichloropropane | 10.6 | 2.0 | µg/L | 10.0 | | 106 | | 70-130 | 1.91 | 25 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.85 | 1.0 | µg/L | 10.0 | | 98.5 | | 70-130 | 1.21 | 25 | | |
| 1,2,4-Trimethylbenzene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | | 70-130 | 1.90 | 25 | | |
| 1,3,5-Trimethylbenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 3.57 | 25 | | |
| Vinyl Chloride | 9.02 | 2.0 | µg/L | 10.0 | | 90.2 | | 40-160 | 4.44 | 25 | | † |
| m+p Xylene | 21.6 | 2.0 | µg/L | 20.0 | | 108 | | 70-130 | 2.52 | 25 | | |
| o-Xylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 4.33 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.1* | | µg/L | 25.0 | | 105 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.2* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.9* | | µg/L | 25.0 | | 99.5 | | 70-130 | | | | |
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B163045-BLK1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | | | |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | | | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | | | |
| Bromobenzene | ND | 1.0 | µg/L | | | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | | | |
| 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 | | | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B163045-BLK1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | V-05 |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | | | | | | | |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.60 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Acetate | ND | 1.0 | µg/L | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | |
| Methyl Cyclohexane | ND | 1.0 | µg/L | | | | | | | |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | |
| n-Propylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | |
| 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 | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | | | |
| **Blank (B163045-BLK1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.4* | | µg/L | 25.0 | | 106 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.1* | | µg/L | 25.0 | | 96.2 | | 70-130 | | | | |
| **LCS (B163045-BS1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | | | |
| Acetone | 95.5 | 50 | µg/L | 100 | | 95.5 | | 70-160 | | | | † |
| Acrylonitrile | 10.8 | 5.0 | µg/L | 10.0 | | 108 | | 70-130 | | | | |
| tert-Amyl Methyl Ether (TAME) | 9.97 | 0.50 | µg/L | 10.0 | | 99.7 | | 70-130 | | | | |
| Benzene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| Bromobenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| **Bromochloromethane** | 13.4 | 1.0 | µg/L | 10.0 | | **134** | * | 70-130 | | | L-02, V-20 | |
| Bromodichloromethane | 12.2 | 0.50 | µg/L | 10.0 | | 122 | | 70-130 | | | | |
| Bromoform | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| Bromomethane | 6.22 | 2.0 | µg/L | 10.0 | | 62.2 | | 40-160 | | | | † |
| 2-Butanone (MEK) | 109 | 20 | µg/L | 100 | | 109 | | 40-160 | | | | † |
| tert-Butyl Alcohol (TBA) | 96.1 | 20 | µg/L | 100 | | 96.1 | | 40-160 | | | | † |
| **n-Butylbenzene** | 13.2 | 1.0 | µg/L | 10.0 | | **132** | * | 70-130 | | | L-07 | |
| sec-Butylbenzene | 12.8 | 1.0 | µg/L | 10.0 | | 128 | | 70-130 | | | | |
| tert-Butylbenzene | 12.5 | 1.0 | µg/L | 10.0 | | 125 | | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.0 | 0.50 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| Carbon Disulfide | 11.7 | 4.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| Carbon Tetrachloride | 12.6 | 5.0 | µg/L | 10.0 | | 126 | | 70-130 | | | | |
| Chlorobenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| Chlorodibromomethane | 11.2 | 2.0 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| Chloroethane | 11.7 | 2.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| Chloroform | 12.2 | 2.0 | µg/L | 10.0 | | 122 | | 70-130 | | | | |
| Chloromethane | 6.03 | 2.0 | µg/L | 10.0 | | 60.3 | | 40-160 | | | V-05 | † |
| 2-Chlorotoluene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| 4-Chlorotoluene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 11.0 | 5.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 11.8 | 0.50 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| Dibromomethane | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 12.3 | 1.0 | µg/L | 10.0 | | 123 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| trans-1,4-Dichloro-2-butene | 8.85 | 2.0 | µg/L | 10.0 | | 88.5 | | 70-130 | | | | |
| Dichlorodifluoromethane (Freon 12) | 9.42 | 2.0 | µg/L | 10.0 | | 94.2 | | 40-160 | | | | † |
| 1,1-Dichloroethane | 12.9 | 1.0 | µg/L | 10.0 | | 129 | | 70-130 | | | | |
| 1,2-Dichloroethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| 1,1-Dichloroethylene | 12.9 | 1.0 | µg/L | 10.0 | | 129 | | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 12.4 | 1.0 | µg/L | 10.0 | | 124 | | 70-130 | | | V-06 | |
| trans-1,2-Dichloroethylene | 12.6 | 1.0 | µg/L | 10.0 | | 126 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS (B163045-BS1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | | | |
| 1,2-Dichloropropane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| 1,3-Dichloropropane | 11.7 | 0.50 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| 2,2-Dichloropropane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 40-130 | | | | † |
| 1,1-Dichloropropene | 12.5 | 2.0 | µg/L | 10.0 | | 125 | | 70-130 | | | | |
| cis-1,3-Dichloropropene | 10.6 | 0.50 | µg/L | 10.0 | | 106 | | 70-130 | | | | |
| trans-1,3-Dichloropropene | 12.3 | 0.50 | µg/L | 10.0 | | 123 | | 70-130 | | | | |
| Diethyl Ether | 11.5 | 2.0 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 11.2 | 0.50 | µg/L | 10.0 | | 112 | | 70-130 | | | | |
| 1,4-Dioxane | 68.6 | 50 | µg/L | 100 | | 68.6 | | 40-130 | | | | † |
| Ethylbenzene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| Hexachlorobutadiene | 12.3 | 0.60 | µg/L | 10.0 | | 123 | | 70-130 | | | | |
| 2-Hexanone (MBK) | 99.2 | 10 | µg/L | 100 | | 99.2 | | 70-160 | | | | † |
| **Isopropylbenzene (Cumene)** | 14.2 | 1.0 | µg/L | 10.0 | | **142** | * | 70-130 | | | V-06, L-06 | |
| p-Isopropyltoluene (p-Cymene) | 12.3 | 1.0 | µg/L | 10.0 | | 123 | | 70-130 | | | | |
| **Methyl Acetate** | 18.3 | 1.0 | µg/L | 10.0 | | **183** | * | 70-130 | | | L-02 | |
| Methyl tert-Butyl Ether (MTBE) | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | | | | |
| Methyl Cyclohexane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| Methylene Chloride | 12.9 | 5.0 | µg/L | 10.0 | | 129 | | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 109 | 10 | µg/L | 100 | | 109 | | 70-160 | | | | † |
| Naphthalene | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 40-130 | | | | † |
| n-Propylbenzene | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | | | | |
| Styrene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 11.5 | 0.50 | µg/L | 10.0 | | 115 | | 70-130 | | | | |
| Tetrachloroethylene | 12.1 | 1.0 | µg/L | 10.0 | | 121 | | 70-130 | | | | |
| Tetrahydrofuran | 12.9 | 10 | µg/L | 10.0 | | 129 | | 70-130 | | | | |
| Toluene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 9.83 | 5.0 | µg/L | 10.0 | | 98.3 | | 70-130 | | | | |
| 1,2,4-Trichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,3,5-Trichlorobenzene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | | | | |
| 1,1,1-Trichloroethane | 12.4 | 1.0 | µg/L | 10.0 | | 124 | | 70-130 | | | | |
| 1,1,2-Trichloroethane | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | | | | |
| Trichloroethylene | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 12.4 | 2.0 | µg/L | 10.0 | | 124 | | 70-130 | | | | |
| 1,2,3-Trichloropropane | 11.0 | 2.0 | µg/L | 10.0 | | 110 | | 70-130 | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 12.3 | 1.0 | µg/L | 10.0 | | 123 | | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | | | | |
| Vinyl Chloride | 11.5 | 2.0 | µg/L | 10.0 | | 115 | | 40-160 | | | | † |
| m+p Xylene | 23.7 | 2.0 | µg/L | 20.0 | | 118 | | 70-130 | | | | |
| o-Xylene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.5* | | µg/L | 25.0 | | 106 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 100 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.7* | | µg/L | 25.0 | | 98.6 | | 70-130 | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B163045-BSD1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | | | |
| Acetone | 99.4 | 50 | µg/L | 100 | | 99.4 | | 70-160 | 4.00 | 25 | | † |
| Acrylonitrile | 10.8 | 5.0 | µg/L | 10.0 | | 108 | | 70-130 | 0.0930 | 25 | | |
| tert-Amyl Methyl Ether (TAME) | 10.2 | 0.50 | µg/L | 10.0 | | 102 | | 70-130 | 2.28 | 25 | | |
| Benzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 4.19 | 25 | | |
| Bromobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 2.92 | 25 | | |
| **Bromochloromethane** | 13.2 | 1.0 | µg/L | 10.0 | | **132** | * | 70-130 | 1.65 | 25 | L-02, V-20 | |
| Bromodichloromethane | 11.5 | 0.50 | µg/L | 10.0 | | 115 | | 70-130 | 6.15 | 25 | | |
| Bromoform | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | 0.483 | 25 | | |
| Bromomethane | 5.91 | 2.0 | µg/L | 10.0 | | 59.1 | | 40-160 | 5.11 | 25 | | † |
| 2-Butanone (MEK) | 113 | 20 | µg/L | 100 | | 113 | | 40-160 | 3.83 | 25 | | † |
| tert-Butyl Alcohol (TBA) | 103 | 20 | µg/L | 100 | | 103 | | 40-160 | 6.46 | 25 | | † |
| n-Butylbenzene | 13.0 | 1.0 | µg/L | 10.0 | | 130 | | 70-130 | 1.30 | 25 | | |
| sec-Butylbenzene | 12.3 | 1.0 | µg/L | 10.0 | | 123 | | 70-130 | 3.89 | 25 | | |
| tert-Butylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 5.67 | 25 | | |
| tert-Butyl Ethyl Ether (TBEE) | 11.3 | 0.50 | µg/L | 10.0 | | 113 | | 70-130 | 2.88 | 25 | | |
| Carbon Disulfide | 10.9 | 4.0 | µg/L | 10.0 | | 109 | | 70-130 | 7.09 | 25 | | |
| Carbon Tetrachloride | 11.8 | 5.0 | µg/L | 10.0 | | 118 | | 70-130 | 6.73 | 25 | | |
| Chlorobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 3.00 | 25 | | |
| Chlorodibromomethane | 10.8 | 2.0 | µg/L | 10.0 | | 108 | | 70-130 | 3.45 | 25 | | |
| Chloroethane | 10.8 | 2.0 | µg/L | 10.0 | | 108 | | 70-130 | 8.43 | 25 | | |
| Chloroform | 11.7 | 2.0 | µg/L | 10.0 | | 117 | | 70-130 | 4.17 | 25 | | |
| Chloromethane | 5.44 | 2.0 | µg/L | 10.0 | | 54.4 | | 40-160 | 10.3 | 25 | V-05 | † |
| 2-Chlorotoluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 4.61 | 25 | | |
| 4-Chlorotoluene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 3.83 | 25 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 11.1 | 5.0 | µg/L | 10.0 | | 111 | | 70-130 | 0.452 | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.8 | 0.50 | µg/L | 10.0 | | 118 | | 70-130 | 0.0844 | 25 | | |
| Dibromomethane | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | 3.06 | 25 | | |
| 1,2-Dichlorobenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | | 70-130 | 2.44 | 25 | | |
| 1,3-Dichlorobenzene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | 3.47 | 25 | | |
| 1,4-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 4.71 | 25 | | |
| trans-1,4-Dichloro-2-butene | 9.33 | 2.0 | µg/L | 10.0 | | 93.3 | | 70-130 | 5.28 | 25 | | |
| Dichlorodifluoromethane (Freon 12) | 8.94 | 2.0 | µg/L | 10.0 | | 89.4 | | 40-160 | 5.23 | 25 | | † |
| 1,1-Dichloroethane | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | 5.66 | 25 | | |
| 1,2-Dichloroethane | 11.6 | 1.0 | µg/L | 10.0 | | 116 | | 70-130 | 2.56 | 25 | | |
| 1,1-Dichloroethylene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | 7.47 | 25 | | |
| cis-1,2-Dichloroethylene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | | 70-130 | 4.69 | 25 | V-06 | |
| trans-1,2-Dichloroethylene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 6.40 | 25 | | |
| 1,2-Dichloropropane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 7.32 | 25 | | |
| 1,3-Dichloropropane | 11.4 | 0.50 | µg/L | 10.0 | | 114 | | 70-130 | 2.50 | 25 | | |
| 2,2-Dichloropropane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 40-130 | 4.28 | 25 | | † |
| 1,1-Dichloropropene | 11.9 | 2.0 | µg/L | 10.0 | | 119 | | 70-130 | 5.07 | 25 | | |
| cis-1,3-Dichloropropene | 10.4 | 0.50 | µg/L | 10.0 | | 104 | | 70-130 | 2.10 | 25 | | |
| trans-1,3-Dichloropropene | 12.3 | 0.50 | µg/L | 10.0 | | 123 | | 70-130 | 0.0814 | 25 | | |
| Diethyl Ether | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | 4.64 | 25 | | |
| Diisopropyl Ether (DIPE) | 11.1 | 0.50 | µg/L | 10.0 | | 111 | | 70-130 | 1.26 | 25 | | |
| 1,4-Dioxane | 80.0 | 50 | µg/L | 100 | | 80.0 | | 40-130 | 15.4 | 50 | | † ‡ |
| Ethylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 3.67 | 25 | | |
| Hexachlorobutadiene | 12.6 | 0.60 | µg/L | 10.0 | | 126 | | 70-130 | 2.41 | 25 | | |
| 2-Hexanone (MBK) | 105 | 10 | µg/L | 100 | | 105 | | 70-160 | 5.74 | 25 | | † |
| **Isopropylbenzene (Cumene)** | 13.7 | 1.0 | µg/L | 10.0 | | **137** | * | 70-130 | 3.45 | 25 | L-06, V-06 | |
| p-Isopropyltoluene (p-Cymene) | 12.0 | 1.0 | µg/L | 10.0 | | 120 | | 70-130 | 2.38 | 25 | | |
| **Methyl Acetate** | 18.2 | 1.0 | µg/L | 10.0 | | **182** | * | 70-130 | 0.659 | 25 | L-02 | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163045 - SW-846 5030B** | | | | | | | | | | |
| **LCS Dup (B163045-BSD1)** | | | | Prepared: 11/10/16 Analyzed: 11/11/16 | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 3.45 | 25 | |
| Methyl Cyclohexane | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 3.34 | 25 | |
| Methylene Chloride | 12.1 | 5.0 | µg/L | 10.0 | | 121 | 70-130 | 6.57 | 25 | |
| 4-Methyl-2-pentanone (MIBK) | 111 | 10 | µg/L | 100 | | 111 | 70-160 | 2.08 | 25 | † |
| Naphthalene | 11.7 | 2.0 | µg/L | 10.0 | | 117 | 40-130 | 6.92 | 25 | † |
| n-Propylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 3.25 | 25 | |
| Styrene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 4.95 | 25 | |
| 1,1,1,2-Tetrachloroethane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 5.07 | 25 | |
| 1,1,2,2-Tetrachloroethane | 11.7 | 0.50 | µg/L | 10.0 | | 117 | 70-130 | 1.55 | 25 | |
| Tetrachloroethylene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 4.04 | 25 | |
| Tetrahydrofuran | 12.6 | 10 | µg/L | 10.0 | | 126 | 70-130 | 2.43 | 25 | |
| Toluene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 3.87 | 25 | |
| 1,2,3-Trichlorobenzene | 10.7 | 5.0 | µg/L | 10.0 | | 107 | 70-130 | 8.10 | 25 | |
| 1,2,4-Trichlorobenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 4.72 | 25 | |
| 1,3,5-Trichlorobenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | 1.99 | 25 | |
| 1,1,1-Trichloroethane | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 6.84 | 25 | |
| 1,1,2-Trichloroethane | 12.0 | 1.0 | µg/L | 10.0 | | 120 | 70-130 | 1.68 | 25 | |
| Trichloroethylene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | 4.77 | 25 | |
| Trichlorofluoromethane (Freon 11) | 11.8 | 2.0 | µg/L | 10.0 | | 118 | 70-130 | 4.94 | 25 | |
| 1,2,3-Trichloropropane | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 70-130 | 1.35 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 1.87 | 25 | |
| 1,2,4-Trimethylbenzene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | 70-130 | 2.81 | 25 | |
| 1,3,5-Trimethylbenzene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | 2.57 | 25 | |
| Vinyl Chloride | 10.4 | 2.0 | µg/L | 10.0 | | 104 | 40-160 | 9.92 | 25 | † |
| m+p Xylene | 23.0 | 2.0 | µg/L | 20.0 | | 115 | 70-130 | 3.00 | 25 | |
| o-Xylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 2.85 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.3* | | µg/L | 25.0 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | *24.9* | | µg/L | 25.0 | | 99.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.8* | | µg/L | 25.0 | | 99.2 | 70-130 | | | |
| **Batch B163289 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B163289-BLK1)** | | | | Prepared & Analyzed: 11/14/16 | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *29.6* | | µg/L | 25.0 | | 118 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.4* | | µg/L | 25.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.8* | | µg/L | 25.0 | | 99.1 | 70-130 | | | |
| **LCS (B163289-BS1)** | | | | Prepared & Analyzed: 11/14/16 | | | | | | |
| cis-1,2-Dichloroethylene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | | | |
| Tetrachloroethylene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *29.4* | | µg/L | 25.0 | | 118 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.5* | | µg/L | 25.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *25.2* | | µg/L | 25.0 | | 101 | 70-130 | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B163289 - SW-846 5030B** | | | | | | | | | | |
| **LCS Dup (B163289-BSD1)** | | | | Prepared & Analyzed: 11/14/16 | | | | | | |
| cis-1,2-Dichloroethylene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 0.255 | 25 | |
| Tetrachloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 4.28 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | *29.9* | | µg/L | 25.0 | | 120 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.6* | | µg/L | 25.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *25.8* | | µg/L | 25.0 | | 103 | 70-130 | | | |

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

**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162678 - SW-846 3510C** | | | | | | | | | | |
| **Blank (B162678-BLK1)** | | | | Prepared: 11/07/16 Analyzed: 11/09/16 | | | | | | |
| Fuel Oil #2 | ND | 0.20 | mg/L | | | | | | | |
| Surrogate: o-Terphenyl | *0.0807* | | mg/L | 0.100 | | 80.7 | 40-140 | | | |
| **LCS (B162678-BS1)** | | | | Prepared: 11/07/16 Analyzed: 11/09/16 | | | | | | |
| Fuel Oil #2 | 0.573 | 0.20 | mg/L | 1.00 | | 57.3 | 40-140 | | | |
| Surrogate: o-Terphenyl | *0.0764* | | mg/L | 0.100 | | 76.4 | 40-140 | | | |
| **LCS Dup (B162678-BSD1)** | | | | Prepared: 11/07/16 Analyzed: 11/09/16 | | | | | | |
| Fuel Oil #2 | 0.557 | 0.20 | mg/L | 1.00 | | 55.7 | 40-140 | 2.98 | 25 | |
| Surrogate: o-Terphenyl | *0.0766* | | mg/L | 0.100 | | 76.6 | 40-140 | | | |

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

**QUALITY CONTROL**

**Metals Analyses (Dissolved) - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B162452 - SW-846 3005A Dissolved** | | | | | | | | | | |
| **Blank (B162452-BLK1)** | | | | Prepared: 11/04/16 Analyzed: 11/05/16 | | | | | | |
| Lead | ND | 5.0 | µg/L | | | | | | | |
| **LCS (B162452-BS1)** | | | | Prepared: 11/04/16 Analyzed: 11/05/16 | | | | | | |
| Lead | 269 | 5.0 | µg/L | 250 | | 108 | 80-120 | | | |
| **LCS Dup (B162452-BSD1)** | | | | Prepared: 11/04/16 Analyzed: 11/05/16 | | | | | | |
| Lead | 269 | 5.0 | µg/L | 250 | | 108 | 80-120 | 0.185 | 20 | |
| **Duplicate (B162452-DUP1)** | **Source: 16K0182-13** | | | Prepared: 11/04/16 Analyzed: 11/05/16 | | | | | | |
| Lead | ND | 5.0 | µg/L | | ND | | | NC | 20 | |
| **Matrix Spike (B162452-MS1)** | **Source: 16K0182-13** | | | Prepared: 11/04/16 Analyzed: 11/05/16 | | | | | | |
| Lead | 281 | 5.0 | µg/L | 250 | ND | 112 | 75-125 | | | |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| DL-01 | Elevated reporting limits for all volatile compounds due to foaming sample matrix. |
| E | Reported result is estimated. Value reported over verified calibration range. |
| 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-06 | 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 high side. |
| L-07 | Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria. |
| O-31 | Sample chromatography does not match reference standard exactly, possibly due to weathering. |
| 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-06 | Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side. |
| V-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 6020A-B in Water*** | |
| Lead | CT,NH,NY,NC,ME,VA |
| ***SW-846 8260C in Water*** | |
| Acetone | CT,NY,ME,NH,VA |
| Acrylonitrile | CT,NY,ME,NH,VA |
| tert-Amyl Methyl Ether (TAME) | NY,ME,NH,VA |
| Benzene | CT,NY,ME,NH,VA |
| Bromochloromethane | NY,ME,NH,VA |
| Bromodichloromethane | CT,NY,ME,NH,VA |
| Bromoform | CT,NY,ME,NH,VA |
| Bromomethane | CT,NY,ME,NH,VA |
| 2-Butanone (MEK) | CT,NY,ME,NH,VA |
| tert-Butyl Alcohol (TBA) | NY,ME,NH,VA |
| n-Butylbenzene | NY,ME,VA |
| sec-Butylbenzene | NY,ME,VA |
| tert-Butylbenzene | NY,ME,VA |
| tert-Butyl Ethyl Ether (TBEE) | NY,ME,NH,VA |
| Carbon Disulfide | CT,NY,ME,NH,VA |
| Carbon Tetrachloride | CT,NY,ME,NH,VA |
| Chlorobenzene | CT,NY,ME,NH,VA |
| Chlorodibromomethane | CT,NY,ME,NH,VA |
| Chloroethane | CT,NY,ME,NH,VA |
| Chloroform | CT,NY,ME,NH,VA |
| Chloromethane | CT,NY,ME,NH,VA |
| 2-Chlorotoluene | NY,ME,NH,VA |
| 4-Chlorotoluene | NY,ME,NH,VA |
| Dibromomethane | NY,ME,NH,VA |
| 1,2-Dichlorobenzene | CT,NY,ME,NH,VA |
| 1,3-Dichlorobenzene | CT,NY,ME,NH,VA |
| 1,4-Dichlorobenzene | CT,NY,ME,NH,VA |
| trans-1,4-Dichloro-2-butene | NY,ME,NH,VA |
| Dichlorodifluoromethane (Freon 12) | NY,ME,NH,VA |
| 1,1-Dichloroethane | CT,NY,ME,NH,VA |
| 1,2-Dichloroethane | CT,NY,ME,NH,VA |
| 1,1-Dichloroethylene | CT,NY,ME,NH,VA |
| cis-1,2-Dichloroethylene | NY,ME |
| trans-1,2-Dichloroethylene | CT,NY,ME,NH,VA |
| 1,2-Dichloropropane | CT,NY,ME,NH,VA |
| 1,3-Dichloropropane | NY,ME,VA |
| 2,2-Dichloropropane | NY,ME,NH,VA |
| 1,1-Dichloropropene | NY,ME,NH,VA |
| cis-1,3-Dichloropropene | CT,NY,ME,NH,VA |
| trans-1,3-Dichloropropene | CT,NY,ME,NH,VA |
| Diisopropyl Ether (DIPE) | NY,ME,NH,VA |
| Ethylbenzene | CT,NY,ME,NH,VA |
| Hexachlorobutadiene | CT,NY,ME,NH,VA |
| 2-Hexanone (MBK) | CT,NY,ME,NH,VA |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2017 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2017 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2017 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2017 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2017 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2017 |

# CHAIN OF CUSTODY RECORD

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



16K0182
Rev 04.05.12

Company Name: CB&I Environmental
Address: 150 Royall Street
Canton, MA 02021
Attention: Brian Cote
Project Location: Textron Providence
Sampled By: Paul Ledoux

Telephone: 617-589-6175
Project #: 130274
Client PO#: 835493

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: brian.cote@cbi.com
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER GISKey Format
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | # of Containers | ** Preservation | *** Container Code | EPA 8260B (Vocs) | Total Petroleum Hydrocarbons | Dissolved Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 3 | H | V | | | |
| | | | | | | | | 2 | I | A | | | |
| | | | | | | | | 2 | N | P | | | |
| 1 | MW 207S | 11.1.16 | 0630 | | ✓ | GW | ✓ | 3 | | | 3 | | |
| 2 | MW 207D | | 0700 | | | | | 3 | | | 3 | | |
| 3 | MW 202D | | 0730 | | | | | 3 | | | 3 | | |
| 4 | MW 202S | | 0800 | | | | | 3 | | | 3 | | |
| 5 | MW 101S | | 0845 | | | | | 3 | | | 3 | | |
| 6 | MW 101S DUP | | 0845 | | | | | 3 | | | 3 | | |
| 7 | MW 101D | | 0915 | | | | | 3 | | | 3 | | |
| 8 | MW 201D | | 1000 | | | | | 3 | | | 3 | | |
| 9 | MW 218D | | 1100 | | | | | 3 | | | 3 | | |
| 10 | MW 218S | ↓ | 1145 | | ↓ | ↓ | ↓ | 3 | | | 3 | | |

ANALYSIS REQUESTED

Dissolved Metals
○ 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 = soil/solid
SL= sludge
O = other

Comments: Please email GISKey formatted EDD & PDF of report to: brian.cote@cbi.com and catherine.joe@cbi.com. Dissolved lead samples are field filtered.

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) Paul Ledoux | | Date/Time: 11-2-16 |
| Received by: (signature) Paul Chatterton | 1055 | Date/Time: 11-3-16 |
| Relinquished by: (signature) | | Date/Time: |
| Received by: (signature) | 18:00 | Date/Time: 11-3-16 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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WBE/DBE Certifie

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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Relinquished by Paul Ledoux 20:30 11-3-16 11/3/16 2230 2.5



Table of Contents

# CHAIN OF CUSTODY RECORD

16K0182

Rev 04.05.12

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39 Spruce Street
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Attention: Brian Cote
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Sampled By: Paul Ledoux

Telephone: 617-589-6175
Project #: 130274
Client PO#: 835493

**DATA DELIVERY** (check all that apply)
○ FAX ⊗ EMAIL ○ WEBSITE
Fax #:
Email: brian.cote@cbi.com
Format: ⊗ PDF ○ EXCEL ○ GIS
⊗ OTHER GISKey
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Cont. Code | # of Containers | ** Preservation | *** Container Code | EPA 8260B (VOCs) | Total Petroleum Hydrocarbons | Dissolved Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 3 | H | V | | 2 | 1 |
| 11 | CW-6 | 11.2.16 | 1100 | | ✓ | GW | A | | | | | 2 | |
| 12 | CW-6 DUP | ↓ | 1100 | | ↓ | ↓ | A | | | | | 2 | |
| | ~~GZA-3~~ | | | | | | | | | | | | |
| | ~~GZA-3 DUP~~ | | | | | | | | | | | | |
| 13 | MW-109D | 11.2.16 | 1200 | | ✓ | GW | V/P | | | | 3 | | 1 |
| 14 | MW-109D DUP | ↓ | 1200 | | ↓ | ↓ | P | | | | | | 1 |
| 15 | GZA-3 | ↓ | 1300 | | ↓ | ↓ | V/P | | | | 3 | | 1 |

ANALYSIS REQUESTED

*Dissolved Metals*
● 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 = soil/solid
SL= sludge
O = other _____

Comments: See page 1 of 3

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: 1600 11.2.16 |
| Received by: (signature) | 1055 | Date/Time: 11-3-16 |
| Relinquished by: (signature) | | Date/Time: |
| Received by: (signature) | 1600 | Date/Time: 11-3-16 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-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 # _____

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WBE/DBE Certifie

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 INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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Relinquished by 1600 11-3-16 Received by 11/3/16 2230 2.5



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# CHAIN OF CUSTODY RECORD

16K0182

Rev. 04.05.12

con-test® ANALYTICAL LABORATORY
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39 Spruce Street
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Company Name: CB&I Environmental
Telephone: 617-589-6175

Address: 150 Royall Street
Canton, MA 02021
Project # Textron 130274
Client PO# 835493

Attention: Brian Cote

Project Location: Textron Providence, RI

Sampled By: Paul Ledoux

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

**DATA DELIVERY** (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: brian.cote@cbi.com
Format: ☒ PDF ○ EXCEL ○ GIS
☒ OTHER GISKey format
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 3 | H | V | | | |
| | | | | | | | | 2 | I | A | | | |
| | | | | | | | | 1 | N | P | | | |
| 16 | MW-112 | 11.1.16 | 1245 | | ✓ | GW | ✓ | 3 | | | 3 | | |
| 17 | MW-209D | | 1330 | | | | | 3 | | | 3 | | |
| 18 | CW-2 | | 1445 | | | | | 3 | | | 3 | | |
| 19 | CW-1 | ↓ | 1530 | | | | | 3 | | | 3 | | |
| 20 | MW-116D | 11.2.16 | 0630 | | | | | 3 | | | 3 | | |
| 21 | MW-116S | | 0715 | | | | | 3 | | | 3 | | |
| 22 | MW-216D | | 0815 | | | | | 3 | | | 3 | | |
| 23 | MW-216S | | 0900 | | | | | 3 | | | 3 | | |
| 24 | MW-217D | | 0945 | | | | | 3 | | | 3 | | |
| 25 | MW-217S | ↓ | 1015 | | ↓ | ↓ | ↓ | 3 | | | 3 | | |

ANALYSIS REQUESTED

*Dissolved Metals*
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
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| Relinquished by: (signature) | Date/Time: |
|---|---|
| Paul Ledoux | 11.3.16 |
| Received by: (signature) Paul Chartrey 1055 | Date/Time: 11-3-16 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) 18:00 | Date/Time: 11-3-16 |

**Turnaround** ††
☐ 7-Day
☒ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

**Detection Limit Requirements**
Massachusetts:
Connecticut:
Other:

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NELAC & AIHA-LAP, LLC Accredited
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PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Relinquished by: 22:30 11-3-16 11/3/16 2230 2.5



Table of Contents

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

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** CB+I Env. **RECEIVED BY:** JM **DATE:** 11/3/16

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

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

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

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

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

Temperature °C by Temp blank ____ Temperature °C by Temp gun 2.5

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

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

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

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

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

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

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

## Containers received at Con-Test

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

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

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

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

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

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** JM **Date/Time:** 11/3/16 2230