**From:** Darrin L. Santos <DLSantos@geoinc.com>
**Sent:** Friday, June 15, 2018 3:53 PM
**To:** Nahmias, Michael
**Cc:** Tom Frawley
**Subject:** March 2018 sampling data - Londonderry Citgo/Shopping Center
**Attachments:** 5599_March2018_6.15.2018t.pdf

Hi Michael,
Attached is the March 2018 groundwater and POET system sampling report for the referenced site in Londonderry, Vermont. MTBE appears to be trending down in the Thorne-Thomsen well, which is good. The POE's appear to be treating water sufficiently. We'll re-evaluate carbon change-out after the September 2018 sampling event.

Darrin L. Santos, P.G.
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**Environmental Strategy & Engineering**
***Practical in Nature***

| PROJECT PHASE (check one) | SUBMITTAL TYPE (check one) |
|---|---|
| ☐ Site Investigation | ☐ Work Scope |
| ☐ Corrective Action Feasibility Investigation | ☒ **Technical Report** |
| ☐ Corrective Action Plan | ☐ PCF Reimbursement Request |
| ☐ Corrective Action Summary Report | ☐ General Correspondence |
| ☒ **Operations & Monitoring Report** | |

# MARCH 2018 POET SYSTEM AND GROUDNWATER SAMPLING REPORT
# LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER
# 5700 ROUTE 100
# LONDONDERRY, VERMONT
# SMS #1996-2015

Prepared for:

Summit Distributing, LLC
240 Mechanic Street
Lebanon, New Hampshire 03766
Contact: Tom Frawley
Tel: (603) 448-8000
email: tomf@sumd.com

Prepared by:

GeoInsight, Inc.
186 Granite Street, 3rd Floor, Suite A
Manchester, New Hampshire 03101
Contact: Darrin L. Santos, P.G.
Tel: (603) 314-0820
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June 15, 2018

GeoInsight Project 5599-002
File: 5599/CVR

GeoInsight
Environmental Strategy & Engineering
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June 15, 2018 GeoInsight Project 5599-002

Michael Nahmias
Sites Management Section
Vermont Department of Environmental Conservation
1 National Life Drive, Main 2
Montpelier, VT 05620

RE: March 2018 Groundwater and POET System Sampling Report
Londonderry Citgo/Londonderry Shopping Center – **SMS #1996-2015**
5700 Route 100
Londonderry, Vermont

Dear Mr. Nahmias:

GeoInsight, Inc. (GeoInsight) prepared this report for Summit Distributing, LLC (Summit) to summarize the March 2018 point-of-entry treatment (POET) system and groundwater monitoring event performed at the Londonderry Citgo/Londonderry Shopping Center (the Shopping Center) property located at 5700 Route 100 in Londonderry, Vermont. A site locus map is presented as Figure 1 and a site plan is presented as Figure 2. The March 2018 sampling included POET systems serving the Shopping Center and Thorne-Thomsen properties in addition to sampling of accessible site groundwater monitoring wells.

## GROUNDWATER SAMPLING AND ANALYSIS

Groundwater sampling activities on March 30, 2018 included gauging groundwater elevations and collecting groundwater samples from monitoring wells MW-5, MW-8, MW-10R, and MW-11R. Well MW-S2 was inaccessible during the March 2018 sampling event. Groundwater elevations were measured at these wells using an electronic water level meter and gauging data are summarized in Table 1.

Groundwater samples were collected from the four monitoring wells using new dedicated, disposable polyethylene bailers. Prior to sample collection, at least three times the volume of water in the wells was purged using the bailers or the wells were purged dry and allowed to recharge before sampling. After a short stabilization period (approximately 30 minutes), groundwater samples were collected from the monitoring wells for analyses of volatile organic compounds (VOCs). The groundwater samples were submitted to Absolute Resource

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Associates, LLC of Portsmouth, New Hampshire. The samples were analyzed by United States Environmental Protection Agency (USEPA) Method 8260C, were reported using the Vermont Department of Environmental Conservation (VTDEC) USEPA Method 8021 list for selected petroleum constituents.

Table 2 provides a current and historical summary of groundwater VOC data for the site. The laboratory analytical report for the March 2018 monitoring event is presented in Attachment A.

Laboratory analytical results for the March 2018 groundwater monitoring event indicated that VOCs were not present above laboratory reporting limits in the groundwater samples from the four wells. VOCs have not been detected at concentrations exceeding groundwater standards since March and September 2012, when benzene (60 and 63 micrograms per liter [µg/L]) was detected at well MW-8.

An updated groundwater elevation contour plan is presented as Figure 3; however, due to the linear orientation of four available monitoring wells, the resulting contour pattern is limited. Groundwater flow was to the southwest, which is generally consistent with past findings.

## POET AND SUPPLY WELL SYSTEM SAMPLING AND ANALYSIS

GeoInsight performed a supply well POET system monitoring event at the site on March 30, 2018, including the Shopping Center and Thorne-Thomsen supply wells (Figure 2). The March 2018 POET system sampling data are summarized in Table 3. Table 4 provides a summary of recent and historical POET system influent sample data collected at the site and at the Thorne-Thomsen residence. The March 2018 analytical report is presented in Attachment A.

POET system samples collected in March 2018 contained methyl tert butyl ether (MTBE) at concentrations of 6.2 µg/L in the system influent sample collected from the Shopping Center POET system and 16 µg/L in the Thorne-Thomsen system influent sample. The concentration in the Thorne-Thomsen influent sample was above VTDEC drinking water guidelines of 11.3 µg/L for MTBE; however, MTBE concentrations have decreased in the Thorne-Thomsen influent sample during each subsequent event since 65 µg/L was detected during the September 2016 sampling event. MTBE has fluctuated from not detected above the laboratory reporting limit to 6.8 µg/L in sampling completed since September 2010, when 12 µg/L was detected. MTBE and other petroleum-related compounds were not detected above laboratory reporting limits in the effluent samples collected from the Shopping Center and Thorne-Thomsen POETs indicating that the activated carbon installed in POET systems in November 2017 (after receiving the results of the September 2017 POET sampling, which indicated MTBE break-through from the carbon units) is effectively treating the water and removing VOCs.

GeoInsight also collected system mid-point samples from the POET systems serving the Shopping Center and Thorne-Thomsen supply wells. The mid-point sample data are summarized in Table 3. GeoInsight transmitted the results of the March 2017 POET system sampling to the property owners in letters dated June 15, 2017. Copies of the POET system results letters are included in Attachment B.

## Quality Assurance/Quality Control

A trip blank sample was included by the laboratory with the sample containers during this monitoring event. VOCs were not detected above the laboratory reporting limits in the trip blank sample submitted for the March 2018 monitoring event. The trip blank sample was comprised of a laboratory-prepared VOC vial containing deionized water, which accompanied the sample containers in a cooler from delivery from the laboratory through receipt by the laboratory. GeoInsight also reviewed the surrogate recovery data reported by the laboratory for the samples collected during the March 2018 monitoring event, which were within the acceptable limits listed by the laboratory in the analytical reports.

In general, the quality assurance/quality control (QA/QC) samples indicated that the data collected were technically sound, usable, and meet the data quality objectives of on-going site investigation activities. A summary of QA/QC sample data is provided in Table 3.

## CONCLUSIONS AND RECOMMENDATIONS

Because of the historical and recent detection of VOCs above laboratory reporting limits in the Shopping Center and Thorne-Thomsen POET system influent samples (raw, untreated supply well water samples), the continued operation of the POET system is warranted and bi-annual POET system sampling appears to be appropriate for monitoring residual VOCs in the supply wells. It should be noted that MTBE concentrations in the Shopping Center Main system influent samples exceeded the VTDEC drinking water guideline (11.3 µg/L) only once since September 2007, when 12 µg/L was detected in September 2010. The Thorne-Thomsen system influent exceeded drinking water guidelines this sampling period at a concentration of 16 µg/L (guideline is 11.3 µg/L); however, MTBE concentrations have decreased during each event after September 2016 when 65 µg/L was detected (highest concentration on record since 2001). The more recent data indicates relatively low-level and stable MTBE concentration trends in the Shopping Center well and decreasing levels in the Thorne-Thomsen well (since 2016).

Sampling of groundwater monitoring wells appears to be warranted once a year at this time and, therefore, it is recommended that the next groundwater sampling event be performed in March 2019. The next POET system monitoring event is set to occur in September 2018. The need for carbon change-out in the POET systems will be evaluated at that time, but GeoInsight recommends at least one POET system carbon change-out and maintenance event per year, so system servicing will likely be recommended regardless of the September 2018 sampling data.

If you have questions regarding the contents of this letter report, please call us at (603) 314-0820.

Sincerely,
GEOINSIGHT, INC.

Darrin L. Santos, P.G.
Senior Geologist

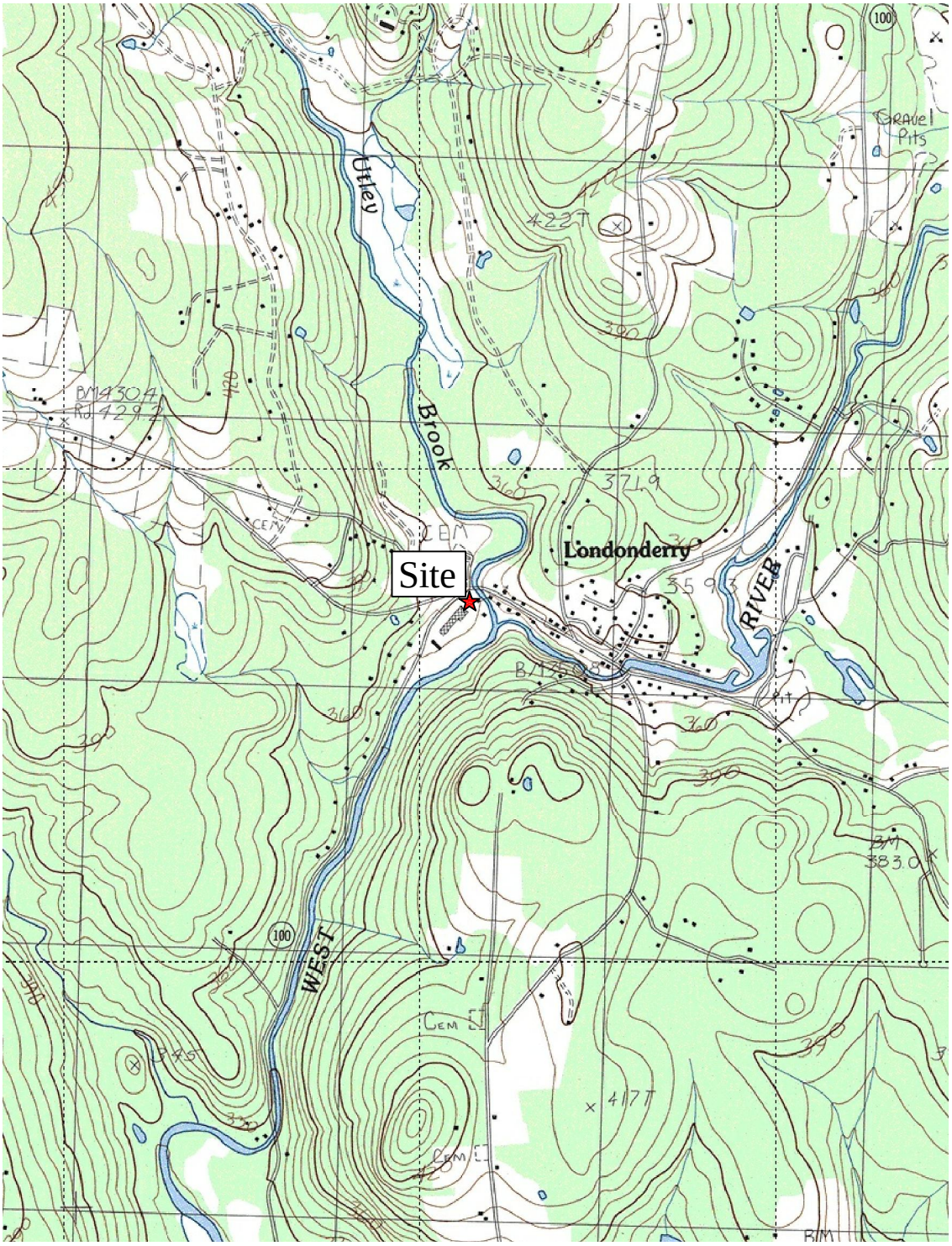
Peter D. Frank, P.G.
Associate/Senior Hydrogeologist

Attachments

cc: Summit Distributing, LLC
5700 Route 100, LLC

\\geonho\NHO_Projects\5599 Summit Londonderry VT\Monitoring\2018\5599March2018.Rpt.doc

# FIGURES




## SOURCE:

USGS LONDONDERRY, VT QUADRANGLE

0 2000 4000

APPROX. SCALE IN FEET

| | | | | |
|---|---|---|---|---|
| CLIENT: | SUMMIT DISTRIBUTING, LLC | | | |
| PROJECT: | 5700 ROUTE 100<br>LONDONDERRY, VERMONT | | | |
| TITLE: | SITE LOCUS | | | |
| DESIGNED: CAE | DRAWN: STM | CHECKED: AWK | APPROVED: BDK | |
| SCALE: 1" = 2000' | DATE: 12/29/08 | FILE NO.: 5599-LOCUS | PROJECT NO.: 5599-000 | FIGURE NO.: 1 |

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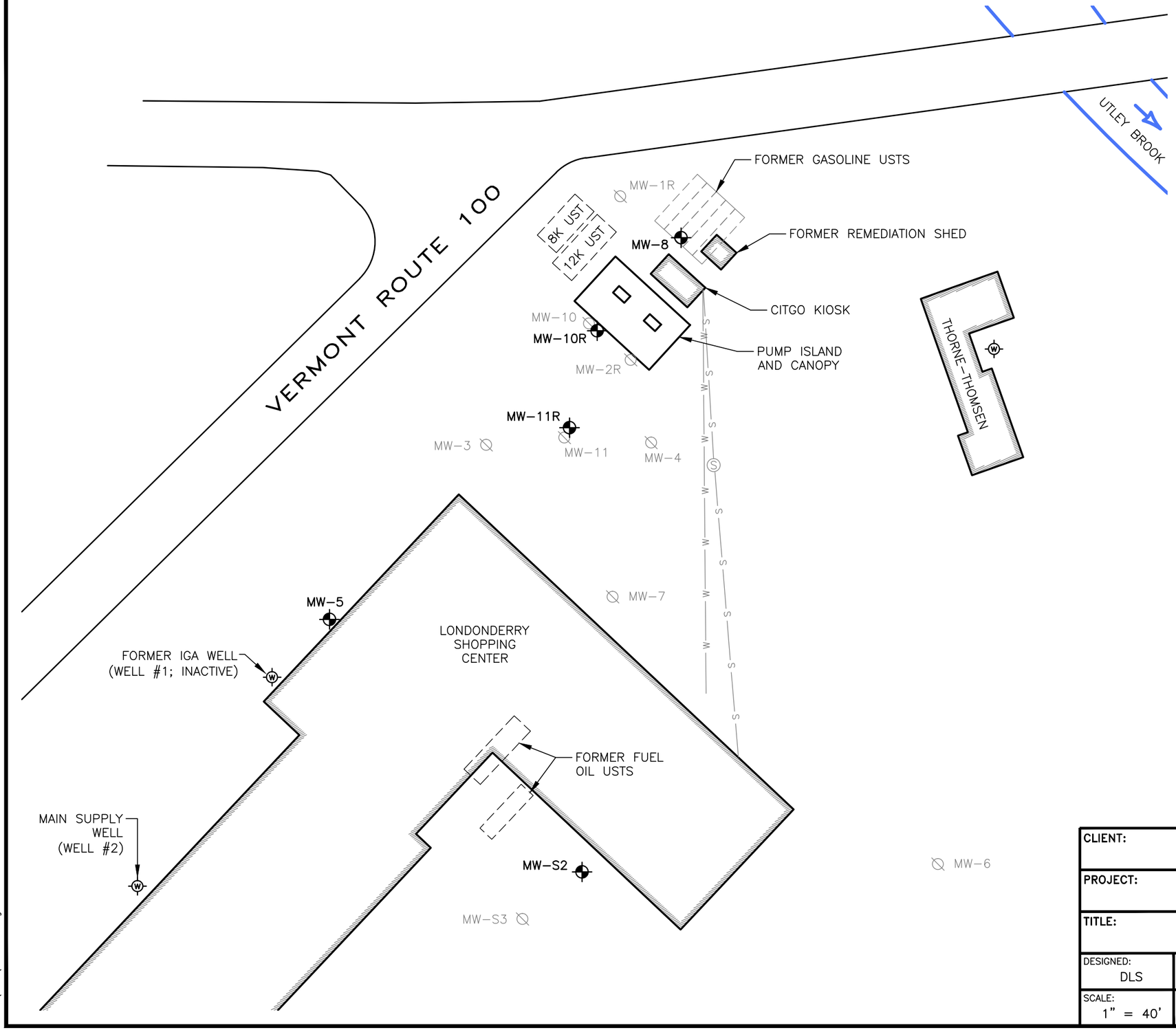
PLOT DATE: 7-28-10
FILE: i:\5599\5599-LOCUS.dwg




## LEGEND

- MW-1 MONITORING WELL
- MW-1R DECOMMISSIONED MONITORING WELL
- SUPPLY WELL
- SEWER MANHOLE
- SEWER LINE
- WATER LINE

- N -

## NOTES:

1. THIS PLAN WAS BASED UPON A SITE PLAN CREATED BY ECS DATED APRIL 04, 2006. ALL SITE FEATURES ARE APPROXIMATE.

0 40 80

APPROX. SCALE IN FEET

| | | | |
|---|---|---|---|
| CLIENT: SUMMIT DISTRIBUTING, LLC | | | |
| PROJECT: 5700 ROUTE 100 LONDONDERRY, VERMONT | | | |
| TITLE: SITE PLAN | | | |
| DESIGNED: DLS | DRAWN: STM | CHECKED: DLS | APPROVED: PDF |
| SCALE: 1" = 40' | DATE: 12/31/13 | FILE NO.: 5599D001 | PROJECT NO.: 5599-000 |

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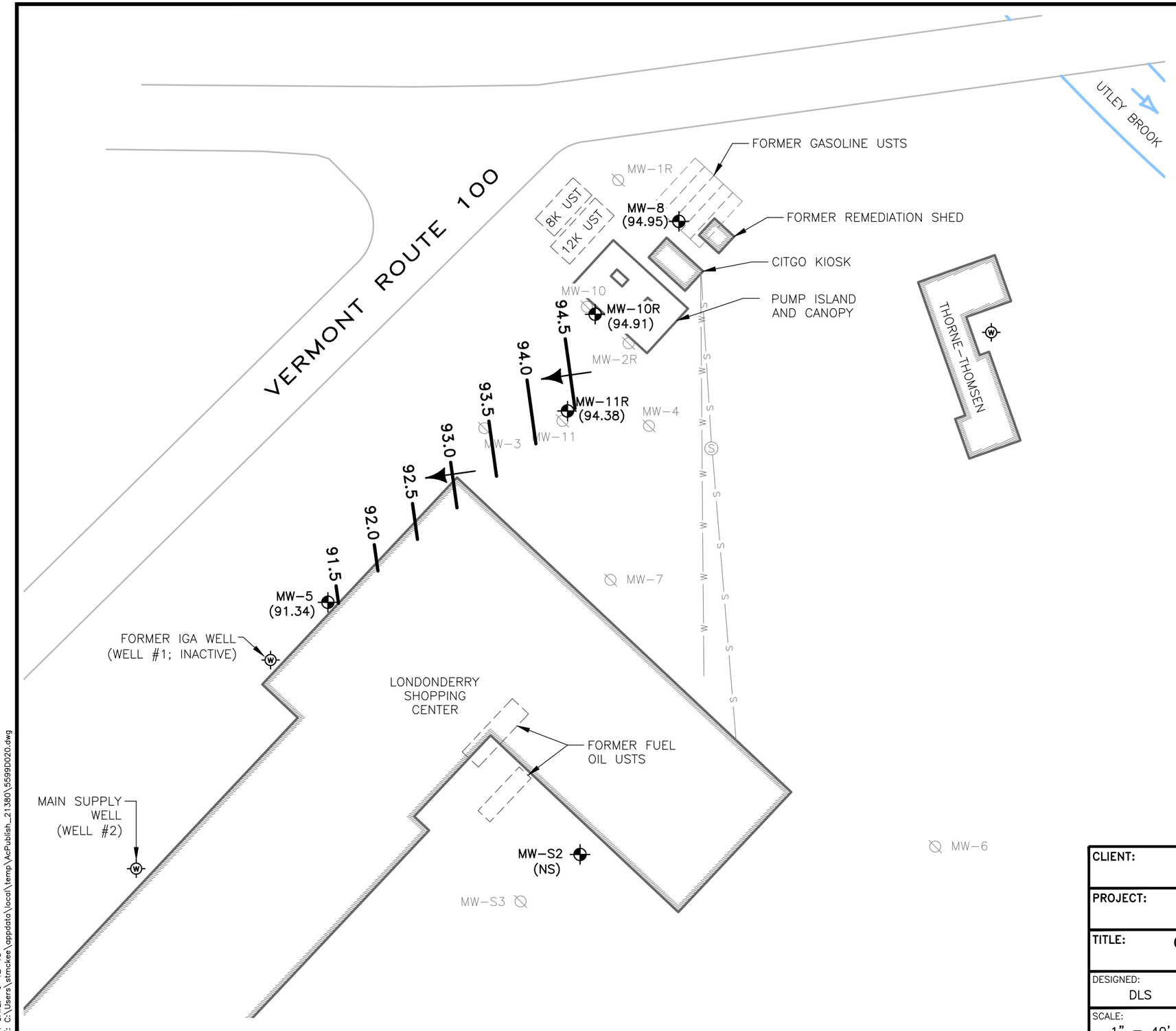
FIGURE NO.: 2

PLOT DATE: 12-31-13
FILE: I:\5599\5599D001.dwg




## LEGEND

| | |
|---|---|
| MW-1 | MONITORING WELL |
| MW-1R | DECOMMISSIONED MONITORING WELL |
| | SUPPLY WELL |
| | SEWER MANHOLE |
| S — S | SEWER LINE |
| W — W | WATER LINE |
| 92.5 | RELATIVE GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED) |
| | INFERRED DIRECTION OF GROUNDWATER FLOW |
| (94.38) | RELATIVE GROUNDWATER ELEVATION |

N

## NOTES:

1. THIS PLAN WAS BASED UPON A SITE PLAN CREATED BY ECS DATED APRIL 04, 2006. ALL SITE FEATURES ARE APPROXIMATE.

0 40 80

APPROX. SCALE IN FEET

| | | | | |
|---|---|---|---|---|
| CLIENT: SUMMIT DISTRIBUTING, LLC | | | | |
| PROJECT: 5700 ROUTE 100 LONDONDERRY, VERMONT | | | | |
| TITLE: GROUNDWATER CONTOUR PLAN MARCH 30, 2018 | | | | |
| DESIGNED: DLS | DRAWN: STM | CHECKED: DLS | APPROVED: PDF | GeoInsight *Practical in Nature* |
| SCALE: 1" = 40' | DATE: 06/12/18 | FILE NO.: 5599D020 | PROJECT NO.: 5599-000 | FIGURE NO.: 3 |

PLOT DATE: 6-12-18
FILE: C:\Users\stmckee\appdata\local\temp\AcPublish_21380\5599D020.dwg

# TABLES

**TABLE 1**
**SUMMARY OF GROUNDWATER ELEVATION DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| WELL I.D. | REFERENCE ELEVATION (FT) (Note 2) | MONITORING DATE (Note 3) | DEPTH TO GROUNDWATER (FT) | RELATIVE GROUNDWATER ELEVATION (FT) |
|---|---|---|---|---|
| **MW-1R** | 100.53 | 03/21/06 | 5.23 | 95.30 |
| | | 09/12/06 | 8.93 | 91.60 |
| | | 03/30/07 | 6.47 | 94.06 |
| | | 09/19/07 | 10.56 | 89.97 |
| | | 10/09/08 | 8.27 | 92.26 |
| | | 04/16/09 | 5.72 | 94.81 |
| | | 09/21/09 | 8.65 | 91.88 |
| | | 03/23/10 | 4.91 | 95.62 |
| | Decommissioned June 2010. | | | |
| **MW-2R** | 99.28 | 03/21/06 | 5.20 | 94.08 |
| | | 09/12/06 | 7.75 | 91.53 |
| | | 03/30/07 | 5.30 | 93.98 |
| | | 09/19/07 | 9.82 | 89.46 |
| | | 10/09/08 | 6.93 | 92.35 |
| | | 04/16/09 | 4.49 | 94.79 |
| | | 03/23/10 | 3.36 | 95.92 |
| | Decommissioned June 2010. | | | |
| **MW-3** | 98.69 | 03/21/06 | 4.91 | 93.78 |
| | | 09/12/06 | 7.63 | 91.06 |
| | | 03/30/07 | 5.24 | 93.45 |
| | | 09/19/07 | 9.82 | 88.87 |
| | | 10/09/08 | 7.02 | 91.67 |
| | | 04/16/09 | 4.45 | 94.24 |
| | | 03/23/10 | 3.46 | 95.23 |
| | Decommissioned June 2010. | | | |
| **MW-4** | 98.32 | 03/21/06 | 4.01 | 94.31 |
| | | 09/12/06 | Dry | -- |
| | | 03/30/07 | Dry | -- |
| | | 09/19/07 | Dry | -- |
| | | 10/09/08 | Dry | -- |
| | | 04/16/09 | Dry | -- |
| | | 03/23/10 | Dry | -- |
| | Decommissioned June 2010. | | | |
| **MW-5** | 98.48 | 03/21/06 | NS | -- |
| | | 09/12/06 | NS | -- |
| | | 03/30/07 | 8.81 | 89.67 |
| | | 09/19/07 | 11.60 | 86.88 |
| | | 10/09/08 | 9.63 | 88.85 |
| | | 04/16/09 | 6.82 | 91.66 |
| | | 03/23/10 | 6.46 | 92.02 |
| | | 03/28/11 | 7.41 | 91.07 |
| | | 03/20/12 | 7.38 | 91.10 |
| | | 09/19/12 | 11.32 | 87.16 |
| | | 05/20/13 | 8.87 | 89.61 |
| | | 09/30/13 | 10.71 | 87.77 |
| | | 03/30/16 | 7.20 | 91.28 |
| | | 03/17/17 | 7.55 | 90.93 |
| | | 03/30/17 | 7.14 | 91.34 |
| | | | | |

**TABLE 1**
**SUMMARY OF GROUNDWATER ELEVATION DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| WELL I.D. | REFERENCE ELEVATION (FT) (Note 2) | MONITORING DATE (Note 3) | DEPTH TO GROUNDWATER (FT) | RELATIVE GROUNDWATER ELEVATION (FT) |
|---|---|---|---|---|
| **MW-6** | 95.13 | 03/21/06 | 8.91 | 86.22 |
| | | 09/12/06 | 10.14 | 84.99 |
| | | 03/30/07 | NS | -- |
| | | 09/19/07 | NS | -- |
| | | 10/09/08 | 9.82 | 85.31 |
| | | 04/16/09 | 8.02 | 87.11 |
| | | 03/23/10 | 6.91 | 88.22 |
| | Decommissioned June 2010. | | | |
| **MW-7** | 98.40 | 03/21/06 | 8.39 | 90.01 |
| | | 09/12/06 | 10.37 | 88.03 |
| | | 03/30/07 | 9.21 | 89.19 |
| | | 09/19/07 | 11.86 | 86.54 |
| | | 10/09/08 | 9.87 | 88.53 |
| | | 04/16/09 | 7.51 | 90.89 |
| | | 03/23/10 | 7.22 | 91.18 |
| | Decommissioned June 2010. | | | |
| **MW-8** | 99.66 | 03/21/06 | 5.65 | 94.01 |
| | | 09/12/06 | 8.15 | 91.51 |
| | | 03/30/07 | 5.65 | 94.01 |
| | | 09/19/07 | 9.77 | 89.89 |
| | | 10/09/08 | 7.40 | 92.26 |
| | | 04/16/09 | 4.97 | 94.69 |
| | | 09/21/09 | 7.84 | 91.82 |
| | | 03/23/10 | 3.80 | 95.86 |
| | | 03/28/11 | Monitoring Well Inaccessible. | |
| | | 3/20/2012 | 3.92 | 95.74 |
| | | 9/19/2012 | 9.57 | 90.09 |
| | | 5/20/2013 | 7.01 | 92.65 |
| | | 9/30/2013 | 8.94 | 90.72 |
| | | 3/30/2016 | 5.11 | 94.55 |
| | | 3/17/2017 | 5.48 | 94.18 |
| | | 3/30/2018 | 4.71 | 94.95 |
| | | | | |
| **MW-10** | 99.60 | 03/21/06 | 5.49 | 94.11 |
| | | 09/12/06 | 8.04 | 91.56 |
| | | 03/30/07 | 5.55 | 94.05 |
| | | 09/19/07 | 9.68 | 89.92 |
| | | 10/09/08 | 7.26 | 92.34 |
| | | 04/16/09 | 4.75 | 94.85 |
| | | 09/21/09 | 7.69 | 91.91 |
| | | 03/23/10 | 3.63 | 95.97 |
| | | 03/28/11 | 4.53 | 95.07 |
| | | 03/20/12 | 4.50 | 95.10 |
| | | 09/19/12 | Dry to 6.8 feet (roadbox damaged, sediment accumulation). | |
| **MW-10R** | 99.22 | 05/20/13 | 6.55 | 92.67 |
| | | 09/30/13 | 8.47 | 90.75 |
| | | 03/30/16 | 4.71 | 94.51 |
| | | 03/17/17 | 5.03 | 94.19 |
| | | 03/30/17 | 4.31 | 94.91 |
| | | | | |

**TABLE 1**
**SUMMARY OF GROUNDWATER ELEVATION DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| WELL I.D. | REFERENCE ELEVATION (FT) (Note 2) | MONITORING DATE (Note 3) | DEPTH TO GROUNDWATER (FT) | RELATIVE GROUNDWATER ELEVATION (FT) |
|---|---|---|---|---|
| **MW-11** | 98.70 | 03/21/06 | 6.01 | 92.69 |
| | | 09/12/06 | 9.47 | 89.23 |
| | | 03/30/07 | 5.95 | 92.75 |
| | | 09/19/07 | Dry | Dry |
| | | 10/09/08 | Dry | Dry |
| | | 04/16/09 | 4.81 | 93.89 |
| | | 03/23/10 | 3.52 | 95.18 |
| **MW-11R** | Decommissioned June 2010. | | | |
| | 98.46 | 05/20/13 | 7.07 | 91.39 |
| | | 09/30/13 | Dry | Dry at 89.32 |
| | | 03/30/16 | 4.46 | 94.00 |
| | | 03/17/17 | Well inaccessible. | |
| | | 03/30/18 | 4.08 | 94.38 |
| | | | | |
| **MW-S2** | 94.89 | 03/21/06 | 8.75 | 86.14 |
| | | 09/12/06 | 10.22 | 84.67 |
| | | 03/30/07 | 8.56 | 86.33 |
| | | 09/19/07 | 10.64 | 84.25 |
| | | 10/09/08 | 9.93 | 84.96 |
| | | 04/16/09 | 8.11 | 86.78 |
| | | 09/21/09 | 10.21 | 84.68 |
| | | 03/23/10 | 7.41 | 87.48 |
| | | 03/28/11 | 7.93 | 86.96 |
| | | 3/20/2012 | 7.89 | 87.00 |
| | | 9/19/2012 | 10.65 | 84.24 |
| | | 5/20/2013 | 9.45 | 85.44 |
| | | 9/30/2013 | 10.41 | 84.48 |
| | | 3/30/2016 | Monitoring Well Inaccessible (snow pile). | |
| | | 3/17/2017 | Monitoring Well Inaccessible (snow pile). | |
| | | 3/30/2018 | Monitoring Well Inaccessible (debris). | |
| | | | | |
| **MW-S3** | 94.41 | 03/21/06 | 8.19 | 86.22 |
| | | 09/12/06 | 9.73 | 84.68 |
| | | 03/30/07 | 8.56 | 85.85 |
| | | 09/19/07 | 10.12 | 84.29 |
| | | 10/09/08 | 9.45 | 84.96 |
| | | 04/16/09 | 7.42 | 86.99 |
| | | 03/23/10 | 6.81 | 87.60 |
| | Decommissioned June 2010. | | | |

**NOTES:**

1. Depth to groundwater measurements were from the top of polyvinyl chloride well casings.
2. Survey/reference elevations obtained from historical site investigation documents.
3. Prior to 10/10/08, measurements were performed by Environmental Compliance Services.
4. FT = feet; NS = not sampled.

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **MTBE** | **Benzene** | **Toluene** | **Ethyl benzene** | **Total Xylenes** | **Total TMB*** | **Naphthalene** | **EDB** | **1,2-DCA** |
| | | ***micrograms per liter (µg/L)*** | | | | | | | | |
| **VPGES** | | **40** | **5** | **1,000** | **700** | **10,000** | **350** | **20** | **0.05** | **5** |
| **MW-1R** | 03/21/06 | **298** | **176** | 170 | 9 | 169.4 | 13.7 | ND(5) | -- | -- |
| | 04/17/06 | **72** | **66.6** | 34.8 | ND(5) | 47.4 | 6.8 | ND(5) | -- | -- |
| | 06/23/06 | 18.4 | **43.7** | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | 10.5 | **8.5** | ND(1) | 9.2 | 2.9 | 22.7 | 3.3 | -- | -- |
| | 12/22/06 | 7.1 | **24.3** | ND(1) | 6.6 | ND(2) | 85.2 | 6.5 | -- | -- |
| | 03/30/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/19/07 | 1.2 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 10/24/08** | 3 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/21/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | *Monitoring well decommissioned June 2010.* | | | | | | | | | |
| **MW-2R** | 03/21/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 04/17/06 | 1.1 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/23/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | 2.2 | ND(1) | -- | -- |
| | 12/22/06 | 7.2 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | ND(1) | ND(1) | ND(1) | 2.4 | ND(2) | 7.8 | ND(1) | -- | -- |
| | 09/19/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | 1.5 | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(1) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | 2 | ND(2) | 7 | ND(5) | ND(2) | ND(2) |
| | *Monitoring well decommissioned June 2010.* | | | | | | | | | |
| **MW-3** | 03/08/00 | 27.9 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | 1.7 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/25/01 | 1.83 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/26/02 | **798** | 3.2 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/05/02 | **106** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/27/03 | **118** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/25/03 | **80.2** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/16/04 | 1.5 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/14/04 | **44.6** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/29/05 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/02/05 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/21/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | -- | -- |
| | 03/30/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | -- | -- |
| | 09/19/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | *Monitoring well decommissioned June 2010.* | | | | | | | | | |

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MTBE | Benzene | Toluene | Ethyl benzene | Total Xylenes | Total TMB* | Naphthalene | EDB | 1,2-DCA |
| | | *micrograms per liter (µg/L)* | | | | | | | | |
| VPGES | | 40 | 5 | 1,000 | 700 | 10,000 | 350 | 20 | 0.05 | 5 |
| MW-4 | 05/21/97 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- | -- | -- |
| | 03/13/98 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- | -- | -- |
| | 06/23/98 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- | -- | -- |
| | 03/21/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- | -- | -- |
| | 09/12/06 | NS | NS | NS | NS | NS | -- | -- | -- | -- |
| | 03/30/07 | NS | NS | NS | NS | NS | -- | -- | -- | -- |
| | 09/19/07 | NS | NS | NS | NS | NS | -- | -- | -- | -- |
| | 03/04/08 | NS | NS | NS | NS | NS | -- | -- | -- | -- |
| | 10/09/08 | *Well purged dry prior to sampling and did not recharge.* | | | | | | | | |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | *Well inaccessible during monitoring event.* | | | | | | | | |
| | | *Monitoring well decommissioned June 2010.* | | | | | | | | |
| MW-5 | 03/08/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/25/01 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/26/02 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/05/02 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/27/03 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/25/03 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/16/04 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/14/04 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/29/05 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/02/05 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/21/06 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/12/06 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/30/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | ND(1) | -- | -- |
| | 09/19/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(1) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/28/11 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/20/12 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/19/12 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 05/20/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/30/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/30/16 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/17/17 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/30/18 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MTBE | Benzene | Toluene | Ethyl benzene | Total Xylenes | Total TMB* | Naphthalene | EDB | 1,2-DCA |
| | | *micrograms per liter (µg/L)* | | | | | | | | |
| **VPGES** | | **40** | **5** | **1,000** | **700** | **10,000** | **350** | **20** | **0.05** | **5** |
| **MW-6** | 03/08/00 | 10.6 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | 39 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | 16.5 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | 31.7 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | 35.3 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/05/02 | 1.5 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/27/03 | NS | NS | NS | NS | NS | NS | NS | ND(0.01) | ND(1) |
| | 09/25/03 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | NS | NS |
| | 03/16/04 | NS | NS | NS | NS | NS | NS | NS | ND(2) | ND(2) |
| | 09/14/04 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | | |
| | 09/02/05 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | | |
| | 03/21/06 | 2.7 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 09/19/07 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/04/08 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | *Monitoring well decommissioned June 2010.* | | | | | | | | | |
| **MW-7** | 03/08/00 | **84.3** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | 10.2 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | 5.1 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | 22.3 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | **85.5** | ND(1) | ND(1) | ND(1) | 2.4 | ND(1) | ND(1) | -- | -- |
| | 03/26/02 | 10.4 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/05/02 | 4.9 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/27/03 | **77.5** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/25/03 | 1.72 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/16/04 | 19.4 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/14/04 | 1.3 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/29/05 | 16.3 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/02/05 | 1.6 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/21/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | 2.2 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 09/19/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(1)** | ND(1) |
| | 03/04/08 | 6.6 | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(1) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/21/09 | *Well inaccessible during monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | *Monitoring well decommissioned June 2010.* | | | | | | | | | |

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MTBE | Benzene | Toluene | Ethyl benzene | Total Xylenes | Total TMB* | Naphthalene | EDB | 1,2-DCA |
| | | *micrograms per liter (µg/L)* | | | | | | | | |
| **VPGES** | | **40** | **5** | **1,000** | **700** | **10,000** | **350** | **20** | **0.05** | **5** |
| **MW-8** | 03/08/00 | 1.2 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | **53.1** | **10.2** | 7.9 | 31.1 | 139 | 84.7 | 10.9 | -- | -- |
| | 09/19/00 | 24.4 | **10.8** | 117 | 129 | 369 | 134.5 | 19 | -- | -- |
| | 12/13/00 | 24.7 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | **264** | **5.9** | ND(2) | 18.6 | 20 | 22.9 | 4.2 | -- | -- |
| | 09/25/01 | **68.1** | 4.3 | 15.1 | 116 | 160 | 124.6 | 18.8 | -- | -- |
| | 03/26/02 | **1,080** | **11.2** | 35.1 | 178 | 1,070 | **602** | **146** | -- | -- |
| | 09/05/02 | **814** | **20.2** | 206 | 588 | 1,700 | **918** | **153** | -- | -- |
| | 03/27/03 | 38.4 | 1 | 1.7 | 5.9 | 46.6 | 24.2 | 4.1 | -- | -- |
| | 09/25/03 | **556** | ND(25) | 116 | **824** | 2,422 | **2,271** | **376** | -- | -- |
| | 03/16/04 | **178** | **12.6** | 16.9 | 217 | 294 | **544** | **77.2** | -- | -- |
| | 09/14/04 | **140** | ND(10) | 13.4 | 178 | 647 | **735** | **93.2** | -- | -- |
| | 03/29/05 | **213** | **40** | ND(5) | 35.6 | 96.1 | **386.4** | **29** | -- | -- |
| | 09/02/05 | 2.4 | 1.2 | ND(1) | 2.1 | 7.7 | 10.3 | 1.4 | -- | -- |
| | 03/21/06 | 22.8 | ND(5) | ND(5) | 17.5 | 34.6 | 278.8 | **27.5** | -- | -- |
| | 06/23/06 | 7.2 | 2.3 | ND(1) | ND(1) | 1.6 | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | 16.7 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 12/22/06 | 8.5 | 4.6 | ND(1) | 1.1 | ND(3) | 13.5 | 2 | -- | -- |
| | 03/30/07 | 1.2 | 3 | ND(1) | 7.9 | 6 | 11.3 | 3 | -- | -- |
| | 09/19/07 | 2.1 | 1.7 | ND(1) | 43.7 | 4.6 | 6.7 | 4.4 | ND(0.01) | ND(1) |
| | 03/04/08 | 6.1 | 1.6 | ND(1) | 2.5 | 4 | 65.3 | 4.6 | ND(1) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/21/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/28/11 | *Well inaccessible during monitoring program.* | | | | | | | | |
| | 03/20/12 | ND(2) | **60** | 4 | ND(2) | 3 | 57 | ND(5) | ND(2) | ND(2) |
| | 09/19/12 | ND(2) | **63** | 2 | 15 | 34 | 134 | 8 | ND(2) | ND(2) |
| | 05/20/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/30/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/30/16 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/17/17 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/30/18 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | | | | | | | | | | |
| **MW-10** | 03/21/06 | 20.8 | **32.4** | 2.4 | ND(1) | 6.6 | 2.4 | ND(1) | -- | -- |
| | 06/23/06 | 18.8 | **16.1** | ND(1) | ND(1) | ND(3) | 2.1 | ND(1) | -- | -- |
| | 09/12/06 | **91.6** | **17.9** | ND(1) | 3.9 | ND(3) | 3.9 | ND(1) | -- | -- |
| | 12/22/06 | 15.5 | 2.4 | ND(1) | 6.8 | 8.7 | 7.6 | ND(1) | -- | -- |
| | 03/30/07 | 9.2 | **11.9** | 4.8 | 1.9 | 8.1 | 11.3 | ND(1) | -- | -- |
| | 09/19/07 | 36.6 | **27.1** | ND(1) | 1.4 | 4.9 | 12.2 | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | 5.6 | ND(1) | ND(1) | ND(1) | ND(3) | 3.3 | ND(1) | ND(1) | ND(1) |
| | 10/09/08 | 11 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | 2 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/21/09 | 5 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/28/11 | ND(2) | 4 | 7 | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/20/12 | ND(2) | **61** | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/19/12 | The roadbox protector was damaged and the well was dry to 6.8 feet indicating that sediment had accumulated in the well. | | | | | | | | |
| **MW-10R** | 05/20/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/30/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/30/16 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/17/17 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/30/18 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **MTBE** | **Benzene** | **Toluene** | **Ethyl benzene** | **Total Xylenes** | **Total TMB*** | **Naphthalene** | **EDB** | **1,2-DCA** |
| | | ***micrograms per liter (µg/L)*** | | | | | | | | |
| **VPGES** | | **40** | **5** | **1,000** | **700** | **10,000** | **350** | **20** | **0.05** | **5** |
| **MW-11** | 03/21/06 | 6 | 2.8 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | 6.4 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | 5.5 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 09/19/07 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 03/04/08 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 10/09/08 | *Monitoring well was dry and, therefore, could not be sampled.* | | | | | | | | |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | | *Monitoring well decommissioned June 2010.* | | | | | | | | |
| **MW-11R** | 05/20/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/30/13 | *Monitoring well was dry and, therefore, could not be sampled.* | | | | | | | | |
| | 03/30/16 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | 03/17/17 | *Monitoring well was inaccessible for sampling.* | | | | | | | | |
| | 03/30/16 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | -- | -- |
| | | | | | | | | | | |
| **MW-S2** | 03/08/00 | **76.8** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | 22 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | **51.3** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | **40.7** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | **43.9** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/25/01 | 29.6 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/26/02 | 15.6 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/05/02 | 11.6 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/27/03 | **41.6** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/25/03 | 17 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/16/04 | 16.5 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/14/04 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/29/05 | **49.9** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/02/05 | 29.1 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/21/06 | 1 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | **51.4** | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | 5.5 | ND(1) | ND(1) | ND(1) | ND(3) | ND(1) | ND(1) | -- | -- |
| | 09/19/07 | 6.7 | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 03/08/08 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/21/09 | 4 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/28/11 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/20/12 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/19/12 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 05/20/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 09/30/13 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 03/30/16 | Monitoring Well Inaccessible. | | | | | | | | |
| | 03/17/17 | Monitoring Well Inaccessible. | | | | | | | | |
| | 03/30/18 | Monitoring Well Inaccessible. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Well ID | Sample Date | VOLATILE ORGANIC COMPOUNDS (VOCs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MTBE | Benzene | Toluene | Ethyl benzene | Total Xylenes | Total TMB* | Naphthalene | EDB | 1,2-DCA |
| | | *micrograms per liter (µg/L)* | | | | | | | | |
| **VPGES** | | **40** | **5** | **1,000** | **700** | **10,000** | **350** | **20** | **0.05** | **5** |
| **MW-S3** | 03/08/00 | **79.4** | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 06/12/00 | 15.7 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/00 | 17.9 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 12/13/00 | 21.8 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/13/01 | 23.7 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/25/01 | 10.9 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/26/02 | 14.7 | ND(1) | ND(1) | 1.3 | 2.8 | ND(1) | ND(1) | -- | -- |
| | 09/05/02 | 15.4 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/27/03 | **43.5** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/25/03 | 16.8 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/16/04 | 8.8 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/14/04 | NS | NS | NS | NS | NS | NS | NS | -- | -- |
| | 03/29/05 | 3.1 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/02/05 | 1 | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 03/21/06 | **121** | ND(1) | ND(1) | ND(1) | ND(2) | ND(1) | ND(1) | -- | -- |
| | 09/12/06 | 1.2 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 03/30/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | ND(1) | -- | -- |
| | 09/19/07 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(0.01) | ND(1) |
| | 03/04/08 | ND(1) | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | ND(1) | ND(1) | ND(1) |
| | 10/09/08 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | 04/16/09 | *Well removed from monitoring program.* | | | | | | | | |
| | 03/23/10 | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | ND(5) | ND(2) | ND(2) |
| | | *Monitoring well decommissioned June 2010.* | | | | | | | | |

NOTES:
1. Results reported in micrograms per liter (µg/L).
2. NS - not sampled.
3. ND(X) - constituent not detected above the laboratory reporting limit noted.
4. VPGESs - Vermont Primary Groundwater Enforcement Standards.
5. Concentrations in bold exceed VPGESs.
6. Prior to 10/10/08, samples were collected by Environmental Compliance Services.
7. EDB - 1,2-dibromoethane; 1,2-DCA - 1,2-dichloroethane; MTBE - methyl tert butyl ether.
8. -- - data not reported in historical reports or data no longer available.
9. * - Effective on 02/28/07, trimethylbenzene (TMB) enforcement standards increased to 350 µg/L, and includes 1,2,4-TMB and 1,3,5-TMB.
10. * *Well MW-1R was resampled on 10/24/08 due to damaged sample vials received by the laboratory from the initial 10/09/08 monitoring event.

**TABLE 3**
**SUMMARY OF SUPPLY WELL SAMPLING AND QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL DATA**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Supply Well | MTBE | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total TMB | Isopropylbenzene | EDB | 1,2-DCA | chloromethane | Trichloroethene | Methylene chloride | Chloroform | Bromodichloromethane | Dibromochloromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MONITORING DATE: March 30, 2018*** | | | | | | | | | | | | | | | |
| ***POINT-OF-ENTRY TREATMENT SYSTEM SAMPLING RESULTS*** | | | | | | | | | | | | | | | |
| Shopping Center Main - Influent | 6.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Shopping Center Main - Mid A | 2.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Shopping Center Main - Mid B | 2.5 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Shopping Center Main - Effluent | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Shopping Center - Well #1 (Former IGA Well: "S.C. pump/INF") | Not sampled. | | | | | | | | | | | | | | |
| Thorne-Thomsen - Influent | **16** | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Thorne-Thomsen - Mid | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| Thorne-Thomsen - Effluent | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| ***QUALITY ASSURANCE/QUALITY CONTROL*** | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Trip Blank | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| ***MCL*** | ***--*** | ***5*** | ***1,000*** | ***700*** | ***10,000*** | ***--*** | ***--*** | ***0.05*** | ***5*** | ***--*** | ***5*** | ***5*** | ***80*** | | |
| ***VHA*** | ***11.3*** | ***--*** | ***--*** | ***--*** | ***--*** | ***5.1*** | ***--*** | ***--*** | ***--*** | ***30*** | ***--*** | ***--*** | ***--*** | ***--*** | ***--*** |
| ***VAL*** | ***--*** | ***0.5*** | ***--*** | ***--*** | ***--*** | ***--*** | ***--*** | ***--*** | ***0.5*** | ***--*** | ***--*** | ***--*** | ***--*** | ***--*** | ***--*** |

**NOTES:**

1. Results reported in micrograms per liter (µg/L).
2. Bold results indicate an exceedence of the applicable MCL.
3. ND(X) - constituent not detected above laboratory reporting limit noted.
4. MCL - Maximum Contaminant Levels for public water supplies from Chapter 21, Vermont Water Supply Rule (April 25, 2005) or Vermont Department of Health, Drinking Water Guidance (December 2002).
5. VHA - Vermont Health Advisories - guidelines for concentrations of chemicals in drinking water that do not have MCLs; VAL - Vermont Action Levels for eight chemicals of specific health concern in public water systems both established by the Vermont Department of Health (December 2002, revised October 2015).
6. Total TMB - 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
7. EDB - 1,2-dibromoethane; 1,2-DCA - 1,2-dichloroethane; MTBE - methyl tert butyl ether.

**TABLE 4**
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**
**(2001 TO PRESENT)**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Supply Well / Drinking Water Standard | Sample Date | MTBE | TAME | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total TMB | Methylene Chloride | Chloromethane |
|---|---|---|---|---|---|---|---|---|---|---|
| | ***MCL*** | *--* | *--* | ***5*** | ***1,000*** | ***700*** | ***10,000*** | *--* | *--* | *--* |
| | ***VHA*** | ***11.3*** | *--* | *--* | *--* | *--* | *--* | ***5.1*** | ***5*** | ***30*** |
| | ***VAL*** | *--* | *--* | ***0.5*** | *--* | *--* | *--* | *--* | *--* | *--* |
| Shopping Center Main - POET System Influent | 01/17/01 | | NR | **43.9** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 02/14/01 | 1.4 | NR | **33.2** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 03/13/01 | 2.9 | NR | **34.9** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 04/17/01 | 2 | NR | **26.3** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 05/17/01 | 2.5 | NR | **28.2** | ND(1) | ND(1) | 1.4 | ND(2) | NR | NR |
| | 07/17/01 | 2.7 | NR | **27.2** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 09/25/01 | 3.6 | NR | **36.9** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 11/14/01 | 2.2 | NR | **33.5** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 01/08/02 | 2.3 | NR | **28.1** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 03/26/02 | 2.8 | NR | **27** | ND(1) | ND(1) | ND(1) | ND(2) | NR | NR |
| | 09/05/02 | 2.1 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 01/03/03 | 1.9 | NR | **8.4** | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 07/18/03 | 5.6 | NR | 3.7 | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/27/03 | 3.6 | NR | **6.2** | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/25/03 | **15.4** | NR | 4.1 | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/03/03 | **13.2** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/16/04 | **27.7** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 06/16/04 | **32.9** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 08/11/04 | **96.4** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/28/04 | **60** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/29/05 | **61.7** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 06/02/05 | **46** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/02/05 | **34.3** | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 12/07/05 | **25.4** | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 03/21/06 | **62.6** | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 06/23/06 | **16.2** | 2.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 09/12/06 | **22.3** | 2.1 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 12/22/06 | **16.1** | 2.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 03/30/07 | **14.1** | 0.7 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 06/21/07 | 7.2 | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 09/16/07 | **11.9** | 0.8 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 12/09/07 | 11.3 | 1.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 03/04/08 | 10.2 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 06/06/08 | 6.3 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 10/09/08 | 9.6 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | 1.2 | ND(0.5) |
| | 12/31/08 | 6.3 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 04/16/09 | 2.6 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | 0.6 |
| | 07/16/09 | 3.1 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/21/09 | 6.1 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 12/10/09 | 3.1 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/23/10 | 1.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 06/30/10 | 2.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/08/10 | **12** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 12/13/10 | 4.5 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/28/11 | 1.5 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/22/11 | ND(2) | NA | ND(2) | ND(2) | ND(2) | ND(2) | ND(2) | NA | NA |
| | 03/20/12 | 6.4 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/19/12 | 5.6 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/29/13 | 5.4 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/30/13 | 6.8 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/26/14 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 2.4 | ND(0.5) |
| | 09/26/14 | 0.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/19/15 | 4 | NA | ND(2) | ND(2) | ND(2) | ND(4) | ND(4) | NA | NA |
| | 09/18/15 | 1.5 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/30/16 | 2.2 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 09/16/16 | 2.1 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/17/17 | 11 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 09/08/17 | 6.7 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/30/17 | 6.2 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | | | | | | | | | | |

**TABLE 4**
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**
**(2001 TO PRESENT)**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Supply Well / Drinking Water Standard | Sample Date | MTBE | TAME | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total TMB | Methylene Chloride | Chloromethane |
|---|---|---|---|---|---|---|---|---|---|---|
| | ***MCL*** | *--* | *--* | ***5*** | ***1,000*** | ***700*** | ***10,000*** | *--* | *--* | *--* |
| | ***VHA*** | ***11.3*** | *--* | *--* | *--* | *--* | *--* | ***5.1*** | ***5*** | ***30*** |
| | ***VAL*** | *--* | *--* | ***0.5*** | *--* | *--* | *--* | *--* | *--* | *--* |
| Shopping Center - Well #1 (Inactive, Former IGA Well) | 04/10/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 05/08/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 06/12/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 07/17/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 08/14/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/19/00 | 2.3 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 10/17/00 | 2.7 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 11/14/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/13/00 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 01/17/01 | 1.8 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 02/14/01 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/13/01 | 2.1 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 04/17/01 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | November 2001 | 1.3 | NR | NR | NR | NR | NR | NR | NR | NR |
| | January 2002 | 1.2 | NR | NR | NR | NR | NR | NR | NR | NR |
| | Data not available or sampling not conducted until Well #1 was rehabilitated in 2013. | | | | | | | | | |
| | 09/30/13 | ND(0.5) | NA | ND(0.5) | 13 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/26/14 | ND(0.5) | ND(0.5) | ND(0.5) | 0.6 | ND(0.5) | ND(0.5) | ND(0.5) | 2.5 | ND(0.5) |
| | 09/26/14 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 3/19/2015[9] | ND(2) | NA | ND(2) | ND(2) | ND(2) | ND(4) | ND(4) | Note 9 | NA |
| | 09/18/15 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/30/16 | Not sampled. | | | | | | | | |
| | | | | | | | | | | |

**TABLE 4**
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**
**(2001 TO PRESENT)**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Supply Well / Drinking Water Standard | Sample Date | MTBE | TAME | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total TMB | Methylene Chloride | Chloromethane |
|---|---|---|---|---|---|---|---|---|---|---|
| | ***MCL*** | *--* | *--* | ***5*** | ***1,000*** | ***700*** | ***10,000*** | *--* | *--* | *--* |
| | ***VHA*** | ***11.3*** | *--* | *--* | *--* | *--* | *--* | ***5.1*** | ***5*** | ***30*** |
| | ***VAL*** | *--* | *--* | ***0.5*** | *--* | *--* | *--* | *--* | *--* | *--* |
| Thorne-Thomsen - POET System Influent | 03/22/01 | 1 | NR | 4.6 | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/25/01 | 1.38 | NR | **12** | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 01/08/02 | ND(1) | NR | 2 | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/26/02 | 2.8 | NR | **27** | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/05/02 | 2 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 01/03/03 | 1.2 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/27/03 | 1.6 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 07/18/03 | Not sampled. | | | | | | | | |
| | 09/25/03 | 5.5 | NR | 4.1 | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/03/03 | 10.7 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/16/04 | Not sampled. | | | | | | | | |
| | 06/16/04 | **28.7** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 08/11/04 | Not sampled. | | | | | | | | |
| | 12/28/04 | **43.9** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/29/05 | **50.1** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 06/02/05 | **36.2** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/02/05 | **45.1** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/07/05 | **36.7** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/21/06 | **33.2** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 06/23/06 | **28.6** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 09/12/06 | **34.9** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/22/06 | Not sampled. | | | | | | | | |
| | 03/30/07 | **40.2** | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 06/21/07 | Not sampled. | | | | | | | | |
| | 09/16/07 | Not sampled. | | | | | | | | |
| | 12/09/07 | 8.6 | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 03/04/08 | 17.6 | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 06/06/08 | 4.1 | NR | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | NR | NR |
| | 10/09/08 | 6.4 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | 1.3 | ND(0.5) |
| | 12/31/08 | 3.8 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 04/16/09 | 0.5 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 07/16/09 | 2.1 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/21/09 | 1.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 12/10/09 | Not sampled. | | | | | | | | |
| | 03/23/10 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 06/30/10 | 2 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/08/10 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | 1.6 |
| | 12/13/10 | Not sampled. | | | | | | | | |
| | 03/28/11 | 2.3 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/22/11 | Not sampled. | | | | | | | | |
| | 03/20/12 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/19/12 | 2.3 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/29/13 | 5.5 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/30/13 | 4.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 03/26/14 | **13** | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| | 09/26/14 | 4.9 | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/19/15 | Not sampled. | | | | | | | | |
| | 09/18/15 | **19** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/30/16 | **48** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 09/06/16 | **65** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/17/17 | **43** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 09/08/17 | **36** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | 03/30/18 | **16** | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| | | | | | | | | | | |

**TABLE 4**
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**
**(2001 TO PRESENT)**
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**
**5700 ROUTE 100**
**LONDONDERRY, VERMONT**
**SMS #1996-2015**

| Supply Well / Drinking Water Standard | Sample Date | MTBE | TAME | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Total TMB | Methylene Chloride | Chloromethane |
|---|---|---|---|---|---|---|---|---|---|---|
| | ***MCL*** | *--* | *--* | ***5*** | ***1,000*** | ***700*** | ***10,000*** | *--* | *--* | *--* |
| | ***VHA*** | ***11.3*** | *--* | *--* | *--* | *--* | *--* | ***5.1*** | ***5*** | ***30*** |
| | ***VAL*** | *--* | *--* | ***0.5*** | *--* | *--* | *--* | *--* | *--* | *--* |
| Rogers Residence | 03/27/03 | 1.4 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/16/04 | **22.1** | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 03/29/05 | 6.5 | NR | ND(1) | ND(1) | ND(1) | ND(2) | ND(2) | NR | NR |
| | 12/07/05 | 0.9 | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 03/21/06 | 1.9 | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 06/23/06 | 1.5 | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 09/12/06 | 1.4 | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 12/22/06 | 1 | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 03/30/07 | ND(1) | NR | ND(1) | 11.8 | 1.6 | 2.7 | 1 | NR | NR |
| | 06/21/07 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 09/16/07 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 12/06/07 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 03/04/08 | Not sampled. | | | | | | | | |
| | 06/06/08 | ND(1) | NR | ND(1) | ND(1) | ND(1) | ND(3) | ND(2) | NR | NR |
| | 10/09/08 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 12/31/08 | Not sampled. | | | | | | | | |
| | 04/16/09 | ND(0.5) | NA | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) | ND(1) | ND(0.5) | ND(0.5) |
| | 07/16/09 | No longer included in sampling program. | | | | | | | | |
| | | | | | | | | | | |

**NOTES:**

1. Results reported in micrograms per liter (µg/L); bold results indicate an exceedence of the applicable MCL.
2. NA - not applicable; NR - not reported; POET system - point-of-entry treatment system.
3. ND(X) - constituent not detected above laboratory reporting limit noted.
4. MCL - Maximum Contaminant Levels for public water supplies from Chapter 21, Vermont Water Supply Rule (04/25/05) or Vermont Department of Health, Drinking Water Guidance (December 2002, revised October 2015).
5. VHA - Vermont Health Advisories - guidelines for concentrations of chemicals in drinking water that do not have MCLs; VAL - Vermont Action Levels for eight chemicals of specific health concern in public water systems both established by the Vermont Department of Health (December 2002, revised February 2007).
6. Total TMB - 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
7. MTBE - methyl tert butyl ether; TAME - tertiary amyl ethyl ether.
8. Sampling performed prior to the October 2008 monitoring event was not completed by GeoInsight, Inc. These historical data were obtained from historical reports.
9. The laboratory reported that non-target compounds tetrahydrofuran and methyl ethyl ketone were detected in the 8021 Vermont Petroleum List analysis in the March 2015 Former IGA well sample.

# ATTACHMENT A

# LABORATORY ANALYTICAL REPORT

# Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Darrin Santos
GeoInsight, Inc.
186 Granite Street
3rd Floor, Suite A
Manchester, NH 03103

PO Number: None
Job ID: 43831
Date Received: 4/2/18

Project: Londonderry, VT 5599

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Jennifer Lowe (for)

Sue Sylvester
Principal, General Manager

Date of Approval: 4/12/2018
Total number of pages: 21

**Absolute Resource Associates Certifications**

| | | | |
|---|---|---|---|
| New Hampshire | 1732 | Massachusetts | M-NH902 |
| Maine | NH903 | | |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-001
**Sample ID:** TT EFF
**Matrix:** Water
**Sampled:** 3/30/18 8:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| methyl t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-001
**Sample ID:** TT EFF
**Matrix:** Water
**Sampled:** 3/30/18 8:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **99** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **93** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 16:23 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-002
**Sample ID:** TT MID
**Matrix:** Water
**Sampled:** 3/30/18 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| methyl t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-002
**Sample ID:** TT MID
**Matrix:** Water
**Sampled:** 3/30/18 8:50

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **91** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **89** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 18:28 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-003
**Sample ID:** TT INF
**Matrix:** Water
**Sampled:** 3/30/18 8:55

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| methyl t-butyl ether (MTBE) | **16** | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-003
**Sample ID:** TT INF
**Matrix:** Water
**Sampled:** 3/30/18 8:55

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **93** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **88** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 19:00 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-004
**Sample ID:** SC EFF
**Matrix:** Water
**Sampled:** 3/30/18 10:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Analysis Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| methyl t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-004
**Sample ID:** SC EFF
**Matrix:** Water
**Sampled:** 3/30/18 10:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **97** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **89** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 15:21 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-005
**Sample ID:** SC MID-A
**Matrix:** Water
**Sampled:** 3/30/18 10:25

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| methyl t-butyl ether (MTBE) | **2.7** | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-005
**Sample ID:** SC MID-A
**Matrix:** Water
**Sampled:** 3/30/18 10:25

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **98** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **91** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 17:26 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-006
**Sample ID:** SC MID-B
**Matrix:** Water
**Sampled:** 3/30/18 10:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| methyl t-butyl ether (MTBE) | **2.5** | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 2,2-dichloropropane | < 0.50 J | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-006
**Sample ID:** SC MID-B
**Matrix:** Water
**Sampled:** 3/30/18 10:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **100** | 70-130 | % | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **96** | 70-130 | % | 1 | LMM | | 1800748 | 4/6/18 | 13:02 | E524.2 |

***J = The associated LCS showed recovery below the acceptance criteria. The LCSD was acceptable. The reported result is an estimate.***

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-007
**Sample ID:** SC INF
**Matrix:** Water
**Sampled:** 3/30/18 10:35

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| methyl t-butyl ether (MTBE) | **6.2** | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831

**Sample#:** 43831-007
**Sample ID:** SC INF
**Matrix:** Water
**Sampled:** 3/30/18 10:35

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Analysis Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **96** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **92** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 16:55 | E524.2 |

**Sample#:** 43831-008
**Sample ID:** MW-5
**Matrix:** Water
**Sampled:** 3/30/18 11:20

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Analysis Batch | Analysis Date | Analysis Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **94** | 78-114 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| toluene-D8 SUR | **96** | 88-110 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |
| 4-bromofluorobenzene SUR | **92** | 86-115 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:30 | SW5030C8260C |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831

**Sample#:** 43831-009
**Sample ID:** MW-11R
**Matrix:** Water
**Sampled:** 3/30/18 11:30

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **95** | 78-114 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| toluene-D8 SUR | **99** | 88-110 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |
| 4-bromofluorobenzene SUR | **93** | 86-115 | % | 1 | LMM | | 1800710 | 4/4/18 | 14:57 | SW5030C8260C |

**Sample#:** 43831-010
**Sample ID:** MW-10R
**Matrix:** Water
**Sampled:** 3/30/18 11:45

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **95** | 78-114 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| toluene-D8 SUR | **99** | 88-110 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |
| 4-bromofluorobenzene SUR | **93** | 86-115 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:23 | SW5030C8260C |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-011
**Sample ID:** MW-8
**Matrix:** Water
**Sampled:** 3/30/18 12:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| methyl t-butyl ether (MTBE) | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| benzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| toluene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| ethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| m&p-xylenes | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| o-xylene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| naphthalene | < 5 | 5 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| 1,3,5-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| 1,2,4-trimethylbenzene | < 2 | 2 | ug/L | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| dibromofluoromethane SUR | **97** | 78-114 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| toluene-D8 SUR | **99** | 88-110 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |
| 4-bromofluorobenzene SUR | **95** | 86-115 | % | 1 | LMM | | 1800710 | 4/4/18 | 15:49 | SW5030C8260C |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-012
**Sample ID:** Trip Blank
**Matrix:** Water
**Sampled:** 3/30/18 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| dichlorodifluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| chloromethane | < 1.0 | 1.0 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| vinyl chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| bromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| chloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| trichlorofluoromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| methylene chloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| carbon disulfide | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| methyl t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| trans-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 2,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| cis-1,2-dichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| chloroform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| bromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1,1-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1-dichloropropene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| carbon tetrachloride | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2-dichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| benzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| trichloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| bromodichloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| dibromomethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| cis-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| toluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| trans-1,3-dichloropropene | < 0.40 | 0.40 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1,2-trichloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,3-dichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| tetrachloroethene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| dibromochloromethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2-dibromoethane (EDB) | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| chlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1,1,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| ethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| m&p-xylenes | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| o-xylene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| styrene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| bromoform | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| isopropylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,1,2,2-tetrachloroethane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2,3-trichloropropane | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |

**Project ID:** Londonderry, VT 5599
**Job ID:** 43831
**Sample#:** 43831-012
**Sample ID:** Trip Blank
**Matrix:** Water
**Sampled:** 3/30/18 0:00

| Parameter | Result | Reporting Limit | Units | Instr Dil'n Factor | Analyst | Prep Date | Batch | Analysis Date | Time | Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| n-propylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| bromobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,3,5-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 2-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 4-chlorotoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| tert-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2,4-trimethylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| sec-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,3-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 4-isopropyltoluene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,4-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2-dichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| n-butylbenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.20 | 0.20 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2,4-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| hexachlorobutadiene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| naphthalene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,2,3-trichlorobenzene | < 0.50 | 0.50 | ug/L | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| **Surrogate Recovery** | | **Limits** | | | | | | | | |
| 4-bromofluorobenzene SUR | **89** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |
| 1,4-dichlorobenzene-D4 SUR | **84** | 70-130 | % | 1 | LMM | | 1800720 | 4/5/18 | 11:08 | E524.2 |

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

43831

Company Name: GeoInsight
Company Address: 186 Granite ST 3rd Fl STE A
Manchester NH 03101
Report To: Darrin Santos
Phone #: 603-314-0820
Invoice to:
Email:
PO #:

Project Name: Londonderry VT
Project #: 5599
Project Location: NH MA ME (VT)
Accreditation Required? N/Y:
Protocol: RCRA SDWA NPDES MCP NHDES DOD
Reporting Limits: QAPP GW-1 S-1 EPA DW Other
Quote #
❑ NH Reimbursement Pricing

## ANALYSIS REQUEST

❑ VOC 8260 ❑ VOC 8260 NHDES ❑ VOC 8260 MADEP
❑ VOC 624 ❑ VOC BTEX MtBE only X ❑ VOC 8021VT
❑ VPH MADEP ❑ GRO 8015 ❑ 1,4-Dioxane
❑ VOC 524.2 X ❑ VOC 524.2 NH List ❑ Gases-List:
❑ TPH ❑ DRO 8015 ❑ EPH MADEP ❑ TPH Fingerprint
❑ 8270PAH ❑ 8270ABN ❑ 625 ❑ EDB
❑ 8082 PCB ❑ 8081 Pesticides ❑ 608 Pest/PCB
❑ O&G 1664 ❑ Mineral O&G SM5520F
❑ pH ❑ BOD ❑ Conductivity ❑ Turbidity ❑ Apparent Color
❑ TSS ❑ TDS ❑ TS ❑ TVS ❑ Alkalinity ❑ Acidity
❑ RCRA Metals ❑ Priority Pollutant Metals ❑ TAL Metals ❑ Hardness
❑ Total Metals-list:
❑ Dissolved Metals-list:
❑ Ammonia ❑ COD ❑ TKN ❑ TN ❑ TON ❑ TOC
❑ T-Phosphorus ❑ Phenols ❑ Bacteria P/A ❑ Bacteria MPN
❑ Cyanide ❑ Sulfide ❑ Nitrate + Nitrite ❑ Ortho P
❑ Nitrate ❑ Nitrite ❑ Chloride ❑ Sulfate ❑ Bromide ❑ Fluoride
❑ Corrosivity ❑ Reactive CN ❑ Reactive S- ❑ Ignitibility/FP
❑ TCLP Metals ❑ TCLP VOC ❑ TCLP SVOC ❑ TCLP Pesticide
Subcontract: ❑ Grain Size ❑ Herbicides ❑ Formaldehyde ❑ PFC
Grab (G) or Composite (C)

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | Sampling: DATE | TIME | SAMPLER | Grab (G) or Composite (C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43831-01 | TT EFF | 2 | X | | | X | | | | | 3/30/18 | 0845 | JAF | G |
| -02 | TT MID | ↓ | | | | ↓ | | | | | ↓ | 0850 | ↓ | ↓ |
| -03 | TT INF | | | | | | | | | | | 0855 | | |
| -04 | SC EFF | | | | | | | | | | | 10:20 | | |
| -05 | SC MID-A | | | | | | | | | | | 10:25 | | |
| -06 | SC MID-B | | | | | | | | | | | 10:30 | | |
| -07 | SC INF | | | | | | | | | | | 10:35 | | |
| -08 | MW-5 | | | | | | | | | | | 11:20 | | |
| -09 | MW-11R | | | | | | | | | | | 11:30 | | |
| -10 | MW-10R | | | | | | | | | | | 11:45 | | |
| -11 | MW-8 | ↓ | | | | | | | | | | 12:00 | | |

**TAT REQUESTED**
Priority (24 hr)* ❑
Expedited (48 hr)* ❑
Standard X
(10 Business Days)
*Date Needed

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS X PDF (e-mail address) DLSantos@Geoinc.com
❑ HARD COPY REQUIRED ❑ EDD

RECEIVED ON ICE ☑ YES ❑ NO
TEMPERATURE 2 °C

**CUSTODY RECORD**
QSD-01 Revision 10/04/17

| Relinquished by Sampler: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Joshua Smith | 3/30/18 | 15:00 | Geo Cold Storage | 3/30/18 | 15:00 |
| Relinquished by: Geo Cold Storage | 4/2/18 | 14:15 | Received by: | 4/2/18 | 14:15 |
| Relinquished by: | 4/2/18 | 15:19 | Received by Laboratory: | 4-2-18 | 15:19 |

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

43831

Company Name: GeoInsight
Company Address: 186 Granite ST 3rd FlSTEA Manchester NH 03101
Report To: Darrin Santos
Phone #: 603-314-0820
Invoice to:
Email:
PO #:

Project Name: Londonderry VT
Project #: 5599
Project Location: NH MA ME VT
Accreditation Required? N/Y:
Protocol: RCRA MCP SDWA NHDES NPDES DOD
Reporting Limits: QAPP EPA DW GW-1 S-1 Other
Quote #
❑ NH Reimbursement Pricing

## ANALYSIS REQUEST

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix: WATER | SOLID | OTHER | Preservation Method: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | MeOH | Sampling: DATE | TIME | SAMPLER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43831-12 | Trip Blank | 1 | X | | | X | | | | | 3/30/18 | — | — |

❑ VOC 8260 ❑ VOC 8260 NHDES ❑ VOC 8260 MADEP
❑ VOC 624 ❑ VOC BTEX MtBE, only ❑ VOC 8021VT
❑ VPH MADEP ❑ GRO 8015 ❑ 1,4-Dioxane
X VOC 524.2 ❑ VOC 524.2 NH List ❑ Gases-List:
❑ TPH ❑ DRO 8015 ❑ EPH MADEP ❑ TPH Fingerprint
❑ 8270PAH ❑ 8270ABN ❑ 625 ❑ EDB
❑ 8082 PCB ❑ 8081 Pesticides ❑ 608 Pest/PCB
❑ O&G 1664 ❑ Mineral O&G SM5520F
❑ pH ❑ BOD ❑ Conductivity ❑ Turbidity ❑ Apparent Color
❑ TSS ❑ TDS ❑ TS ❑ TVS ❑ Alkalinity ❑ Acidity
❑ RCRA Metals ❑ Priority Pollutant Metals ❑ TAL Metals ❑ Hardness
❑ Total Metals-list:
❑ Dissolved Metals-list:
❑ Ammonia ❑ COD ❑ TKN ❑ TN ❑ TON ❑ TOC
❑ T-Phosphorus ❑ Phenols ❑ Bacteria P/A ❑ Bacteria MPN
❑ Cyanide ❑ Sulfide ❑ Nitrate + Nitrite ❑ Ortho P
❑ Nitrate ❑ Nitrite ❑ Chloride ❑ Sulfate ❑ Bromide ❑ Fluoride
❑ Corrosivity ❑ Reactive CN ❑ Reactive S- ❑ Ignitibility/FP
❑ TCLP Metals ❑ TCLP VOC ❑ TCLP SVOC ❑ TCLP Pesticide
Subcontract: ❑ Grain Size ❑ Herbicides ❑ Formaldehyde ❑ PFC
Grab (G) or Composite (C): —

**TAT REQUESTED**
Priority (24 hr)* ❑
Expedited (48 hr)* ❑
Standard X
(10 Business Days)
*Date Needed

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS X PDF (e-mail address) DLSantos@Geoinc.com
❑ HARD COPY REQUIRED ❑ EDD

RECEIVED ON ICE X YES ❑ NO
TEMPERATURE 2 °C

**CUSTODY RECORD**
QSD-01 Revision 10/04/17

| Relinquished by Sampler: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 3/30/18 | 15:00 | GeoCold Storage | 3/30/18 | 15:00 |
| Relinquished by: GeoCold Storage | 4/2/18 | 14:15 | | 4/2/18 | 14:15 |
| Relinquished by: | 4/2/18 | 15:19 | Received by Laboratory: | 4/2/18 | 15:19 |

# ATTACHMENT B

# PROPERTY OWNER POET SYSTEM SAMPLING LETTERS

GeoInsight®
Environmental Strategy & Engineering
*Practical in Nature*

June 15, 2018 GeoInsight Project 5599-002

Roger Thorne-Thomsen
2425 Pikes Falls Road
Jamaica, VT 05343-4436

RE: Results of March 2018 Supply Well Treatment System Sampling
Thorne-Thomsen Residence
Londonderry Citgo/Londonderry Shopping Center
Londonderry, Vermont
**VTDEC SMS #1996-2015**

Dear Mr. Thorne-Thomsen:

At the request of the Vermont Department of Environmental Conservation (VTDEC), GeoInsight, Inc. collected water samples from your supply well point-of-entry treatment (POET) system during a March 2018 monitoring event associated with the Londonderry Citgo/Londonderry Shopping Center site (SMS #1996-2015) located in Londonderry, Vermont. The POET system samples were submitted to Absolute Resource Associates, LLC of Portsmouth, New Hampshire for analysis of volatile organic compounds by United States Environmental Protection Agency Method 524.2.

A concentration of 16 micrograms per liter (µg/L) of methyl tertiary butyl ether (MTBE) was detected in the system influent sample ("TT Res Inf"). The VTDEC Primary Groundwater Enforcement Standard is 40 µg/L and drinking water guideline for MTBE is 11.3 µg/L; therefore, the influent sample is above recommended limits. MTBE was not detected above laboratory reporting limits in the system mid-point sample (after first and before second treatment vessel) and POET system effluent ("TT Res Eff"). Note that the effluent sample is collected after water is treated by the POET system and the influent sample is the raw, untreated water entering the system from the supply well.

A copy of the laboratory results for the March 2018 POET system monitoring event is enclosed for your records. If you have questions regarding these results, contact us in our Manchester, New Hampshire office at (603) 314-0820.

Sincerely,
GEOINSIGHT, INC.

Darrin L. Santos, P.G.
Senior Geologist

Peter D. Frank, P.G.
Associate/Senior Hydrogeologist

Enclosure

cc: Michael Nahmias, VTDEC

\\geonho\NHO_Projects\5599 Summit Londonderry VT\Monitoring\2018\Thorne-ThomsenResults3.2018.doc

**GeoInsight, Inc.**
186 Granite Street, 3rd Floor Suite A
Manchester, NH 03101-2643
Tel (603) 314-0820
Fax (603) 314-0821
www.geoinsight.com

**GeoInsight, Inc.**
One Monarch Drive, Suite 201
Littleton, MA 01460-1440
Tel (978) 679-1600
Fax (978) 679-1601

**GeoInsight, Inc.**
200 Court Street, 2nd Floor
Middletown, CT 06457-3341
Tel (860) 894-1022
Fax (860) 894-1023

GeoInsight®
Environmental Strategy & Engineering
*Practical in Nature*

June 15, 2018 GeoInsight Project 5599-002

Rick Bove
5700 Route 100, LLC
218 Overlake Drive
Colchester, VT 05446

RE: Results of March 2018 Supply Well Treatment System Sampling
Londonderry Citgo/Londonderry Shopping Center
Londonderry, Vermont
**VTDEC SMS #1996-2015**

Dear Mr. Bove:

At the request of the Vermont Department of Environmental Conservation (VTDEC), GeoInsight, Inc. (GeoInsight) collected water samples from the supply well point-of-entry treatment (POET) system serving the Londonderry Shopping Center on March 30, 2018 during a monitoring event associated with the Londonderry Citgo/Londonderry Shopping Center site (SMS #1996-2015) in Londonderry, Vermont. The POET system samples were submitted to Absolute Resource Associates, LLC of Portsmouth, New Hampshire for analysis of volatile organic compounds (VOCs) by United States Environmental Protection Agency Method 524.2.

Methyl tertiary butyl ether (MTBE) was detected at a concentration of 6.2 micrograms per liter (µg/L) in the POET system influent ("SC INF") sample. The VTDEC Primary Groundwater Enforcement Standard (VPGES) for MTBE is 40 µg/L and the drinking water guideline is 11.3 µg/L. MTBE was detected in the POET system mid-point samples ("SC MID-A" and "SC MID-B") samples (2.5 to 2.7 µg/L) and was not detected above laboratory report limits in the the system effluent ("SC EFF") sample. Note that the effluent sample is collected after water is treated by the POET system.

If you have questions regarding these results, contact us in our Manchester, New Hampshire office at (603) 314-0820.

Sincerely,
GEOINSIGHT, INC.

Darrin L. Santos, P.G.
Senior Geologist

Peter D. Frank, P.G.
Associate/Senior Hydrogeologist

cc: Michael Nahmias, VTDEC

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