



**NHDES Waste Management Division  
29 Hazen Drive; PO Box 95  
Concord, NH 03302-0095**



## **UNDERGROUND STORAGE TANK CLOSURE REPORT**

**Turn Key Lumber  
162 (179) Route 12 North  
Fitzwilliam, New Hampshire 03447**

**NHDES Site #198905021  
UST Facility ID #0112678**

**Prepared For:**  
Fitzwilliam LLC  
305 Leominster Shirley Road  
Lunenburg, Massachusetts 01462  
Phone Number: (978) 490-6691  
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**Prepared By:**  
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April 7, 2022

**Wilcox & Barton Project #GAFT0165**



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**UNDERGROUND STORAGE TANK CLOSURE REPORT**

**TURN KEY LUMBER  
162 (179) ROUTE 12 NORTH  
FITZWILLIAM, NEW HAMPSHIRE**

**NHDES SITE #198905021  
FACILITY ID #0112678**

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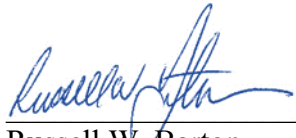
## CERTIFICATION

The following personnel have prepared and/or reviewed this report for accuracy, content, and quality of presentation.

Document: Underground Storage Tank Closure Report  
Turn Key Lumber  
162 (179) Route 12 North, Fitzwilliam, New Hampshire  
NHDES Site #198905021, Facility #0112678

Date/Version: April 7, 2022

  
\_\_\_\_\_  
Devin Perry  
Staff Geologist

  
\_\_\_\_\_  
Russell W. Barton  
Principal Geologist

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## 1.0 INTRODUCTION

Wilcox & Barton, Inc. performed a closure assessment during removal of one double-walled steel underground storage tank (UST) and associated piping from the Turn Key Lumber facility located at 162 (179) Route 12 North in Fitzwilliam, New Hampshire (the site). Tank removal was completed by Gaftek, Inc. (Gaftek) of Epsom, New Hampshire, in general accordance with the June 2014 New Hampshire Department of Environmental Services (NHDES) guidance entitled *Requirements for Underground and Aboveground Storage Tank System and System Component Closure Sampling and Reporting* and New Hampshire Code of Administrative Rules Env-Or 400, *Underground Storage Tank Facilities*.

## 2.0 SITE DESCRIPTION

The site is situated on a 19.5-acre parcel in a rural section of Fitzwilliam, New Hampshire, and is identified by the Town of Fitzwilliam Assessor's Department as Tax Map 15, Lot 29. The UST was located near the northeast corner of the building.

The property is bound by a commercial property to the north, Route 12 to the east, a wooded residential area to the South, and a forested area to the west. Topography at the site is generally flat. The nearest surface water is an unnamed pond approximately 4,500 feet to the northeast.

The location of the site is presented on Figure 1 – *Site Location Map* and site details are depicted on Figure 2 – *UST Closure Plan*. Photographs documenting closure activities are provided in Appendix A.

## 3.0 CLOSURE OF UST AND PIPING

According to NHDES records, the property is listed as NHDES Site #198905021 and registered as UST Facility #0112678. The subject UST is identified as Tank 4 within the NHDES database and is utilized for the storage of #2 heating oil. The tank is listed as composite, was installed in November 1998 and is 10,000 gallons in capacity. The UST Closure Notification Form was submitted on November 7, 2022, a copy of the *UST Closure Notification* is provided in Appendix B. Mr. John Ziemba (ICC No. 8035335-U2) of Gaftek provided *International Code Council (ICC) Certification* inspection during removal of the USTs and piping. Removal activities were observed by Wilcox & Barton, Inc.

### 3.1 UST System Removal

On February 23, 2022, Gaftek removed the #2 heating oil UST and all associated product piping. Prior to removal of the tank, Gaftek rinsed the tank, NRC East Environmental Services, Inc transported the residual fuel and rinse water to the NRC Environmental of Maine, Inc. facility located in South Portland, Maine, see Section 3.4 for additional documentation. Wilcox & Barton, Inc. oversaw all tank and piping removal and performed a closure assessment.

Gaftek removed the soil covering the top of the tank, which was encountered at approximately 2 feet below ground surface (bgs). The excavated soil was temporarily stockpiled directly north of

the UST. Once removed, the UST was observed to be in good condition with no visible evidence of holes or other evidence of failure. The #2 heating oil UST measured approximately 8 feet in diameter by 27 feet in length. The tank sumps, piping, and ducting were also removed and observed to be in good condition. Soil observed at the base and sidewalls of the excavation was primarily fine to medium sand. The excavation measured approximately 20 feet in width by 40 feet in length and 10 feet in depth. A separate section for piping excavation measured 20 feet in width by 26 feet in length and three feet in depth.

During the closure assessment, no olfactory evidence of petroleum contamination was observed in soil around or under the UST and piping. Excavation was guided by visual, olfactory, and field screening data. The extent of the excavation and soil analytical sample locations, and soil PID data are presented on Figure 2 - *UST Closure Plan*.

### **3.2 Field Screening**

Wilcox & Barton, Inc. collected soil samples from beneath the USTs and associated piping. Samples were screened with a MiniRae Lite photoionization detector (PID) in accordance with the Wilcox & Barton, Inc. Standard Operating Procedure (SOP) presented in Appendix C. The PID was calibrated with isobutylene for the measurement of organic vapors on a part-per-million by volume (ppmv) basis. PID readings ranged from 0.2 ppmv to 0.4 ppmv.

Groundwater was encountered in the excavation at approximately 3.5 ft bgs.

### **3.3 Soil and Groundwater Sampling and Analysis**

On February 23, 2022, two soil samples (S-1 and S-2) and one groundwater sample (GW-1) were collected from the excavation following removal of the UST and piping. The samples were collected in accordance with the SOPs in Appendix C and submitted under standard chain-of-custody to Pace Analytical Laboratory (Pace) in East Longmeadow, Massachusetts.

Soil sample S-1 was collected from the west end of the 10,000-gallon UST. The soil sample was submitted for laboratory analysis of the NHDES Full List of Analytes for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270, and total petroleum hydrocarbons for diesel range organics (TPH-DRO) by EPA Method Modified 8015. Soil sample S-2 was collected from the east end of the UST. The soil sample was submitted for laboratory analysis of VOCs by EPA Method 8260, PAHs by EPA Method 8270, and TPH-DRO by EPA Method Modified 8015.

Neither VOCs, or PAHs were detected above the laboratory detection limits. TPH-DRO was not detected above NHDES Soil Remediation Standards in either sample. Analytical results are summarized in Table 1 – *Soil Samples – Summary of Analytical Results*, and a copy of the laboratory report is provided in Appendix D.

One groundwater sample was collected from the UST excavation (GW-1). The groundwater sample was submitted for laboratory analysis of VOCs by EPA Method 8260 and PAHs by EPA Method 8270.

Several PAH compounds were detected, with benzofluoranthene and indenopyrene concentrations exceeding NHDES Ambient Groundwater Quality Standards (AGQS). No VOCs were detected at concentrations exceeding AGQS. Analytical results are summarized in Table 2 – *Groundwater Samples – Summary of Analytical Results*, and a copy of the laboratory report is provided in Appendix D.

### **3.4 Waste Disposal**

A total of 203 gallons of residual #2 fuel oil were removed from the UST and were transported by NRC East Environmental Services, Inc. to their NRC Environmental of Maine, Inc facility located in South Portland, Maine. The UST was taken to Scrap It, Inc. in Marlborough, New Hampshire, for disposal. Copies of the waste and UST disposal documents are provided in Appendix E.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

On February 23, 2022, Gaftek removed the UST and associated piping from the Turnkey Lumber Facility located at 162 (179) Route 12 North in Fitzwilliam, New Hampshire. The UST and piping were observed to be in good condition with no obvious evidence of failure or breaches of integrity. The excavation was backfilled after completion of the closure assessment.

During removal of the tank and piping, no significant olfactory evidence of petroleum-impacted soil was observed; organic vapor readings ranged up to 0.4 ppmv. Groundwater was encountered at a depth of approximately 3.5 feet bgs within the excavation.

Laboratory analyses of two soil samples from the UST excavation revealed no constituents at concentrations exceeding SRS. Laboratory analysis of one groundwater sample revealed several constituents exceeding AGQS. The two PAH compounds exceeding the NHDES AGQS, benzofluoranthene and indenopyrene, are not expected to be associated with a release of #2 fuel oil

As such, closure requirements for the UST system have been met. Wilcox & Barton, Inc. recommends maintenance of this closure record by the property owner for the operating life of the facility in accordance with the requirements of New Hampshire Code of Administrative Rules Env-Or 304.06.

## TABLES

**TABLE 1**  
**Soil Samples - Summary of Analytical Results**

Turn Key Lumber  
162 (179) Route 12 North, Fitzwilliam, New Hampshire  
NHDES Site #198905021

| Sample Identification<br>Sample Date<br>Depth (feet) / PID (ppmv)     | NHDES Soil<br>Remediation<br>Standards (SRS) * | S-1<br>2/23/2022<br>6 / 0.1 | S-2<br>2/23/2022<br>6 / 0.2 |
|-----------------------------------------------------------------------|------------------------------------------------|-----------------------------|-----------------------------|
| <b>Polycyclic Aromatic Hydrocarbons (PAHs)<br/>by EPA Method 8270</b> |                                                |                             |                             |
| Acenaphthene                                                          | 340                                            | 0.22 U                      | 0.20 U                      |
| Acenaphthylene                                                        | 490                                            | 0.22 U                      | 0.20 U                      |
| Anthracene                                                            | 1,000                                          | 0.22 U                      | 0.20 U                      |
| Benzo(a)anthracene                                                    | 1                                              | 0.22 U                      | 0.20 U                      |
| Benzo(a)pyrene                                                        | 0.7                                            | 0.22 U                      | 0.20 U                      |
| Benzo(b)fluoranthene                                                  | 1                                              | 0.22 U                      | 0.20 U                      |
| Benzo(g,h,i)perylene                                                  | NS                                             | 0.22 U                      | 0.20 U                      |
| Benzo(k)fluoranthene                                                  | 12                                             | 0.22 U                      | 0.20 U                      |
| Chrysene                                                              | 120                                            | 0.22 U                      | 0.20 U                      |
| Dibenz(a,h)anthracene                                                 | 0.7                                            | 0.22 U                      | 0.20 U                      |
| Fluoranthene                                                          | 960                                            | 0.22 U                      | 0.20 U                      |
| Fluorene                                                              | 77                                             | 0.22 U                      | 0.20 U                      |
| Indeno(1,2,3-cd)pyrene                                                | 1                                              | 0.22 U                      | 0.20 U                      |
| 2-Methylnaphthalene                                                   | 96                                             | 0.22 U                      | 0.20 U                      |
| Naphthalene**                                                         | 28                                             | 0.22 U                      | 0.20 U                      |
| Phenanthrene                                                          | NS                                             | 0.22 U                      | 0.20 U                      |
| Pyrene                                                                | 720                                            | 0.22 U                      | 0.20 U                      |
| <b>Volatile Organic Compounds (VOCs)<br/>by EPA Method 8260</b>       |                                                |                             |                             |
| Acetone                                                               | 75                                             | 0.11 U                      | 0.11 U                      |
| Benzene                                                               | 0.3                                            | 0.0023 U                    | 0.0022 U                    |
| n-Butylbenzene                                                        | 110                                            | 0.0023 U                    | 0.0022 U                    |
| sec-Butylbenzene                                                      | 130                                            | 0.0023 U                    | 0.0022 U                    |
| tert-Butylbenzene                                                     | 100                                            | 0.0023 U                    | 0.0022 U                    |
| Ethylbenzene                                                          | 120                                            | 0.0023 U                    | 0.0022 U                    |
| Isopropylbenzene (Cumene)                                             | 330                                            | 0.0023 U                    | 0.0022 U                    |
| Methyl tert-Butyl Ether (MTBE)                                        | 0.2                                            | 0.0046 U                    | 0.0045 U                    |
| Naphthalene**                                                         | 28                                             | 0.0046 U                    | 0.0045 U                    |
| n-Propylbenzene                                                       | 85                                             | 0.0023 U                    | 0.0022 U                    |
| Toluene                                                               | 100                                            | 0.0023 U                    | 0.0022 U                    |
| 1,2,4-Trimethylbenzene                                                | 130                                            | 0.0023 U                    | 0.0022 U                    |
| 1,3,5-Trimethylbenzene                                                | 96                                             | 0.0023 U                    | 0.0022 U                    |
| Total Xylenes                                                         | 500                                            | 0.0069 U                    | 0.0067 U                    |
| <b>Total Petroleum Hydrocarbons (TPH)<br/>by EPA Method 8015</b>      |                                                |                             |                             |
| TPH (as Diesel)                                                       | 10,000                                         | 3.7 J                       | 3.8 J                       |

All detected and selected other analytes listed; all others were not detected.

Results in milligrams per kilogram (mg/kg) unless otherwise noted.

PID Photoionization Detector. Results in parts per million by volume (ppmv).

U Not detected at or above the indicated laboratory reporting limit.

J Estimated concentration.

NS No standard established.

-- Sample not collected/analyzed for this compound.

**bold** Detected concentration exceeds SRS.

**bold italics** Not detected; laboratory reporting limit exceeds SRS.

\* Env-Or 606.19, Table 600-2, SRS, effective June 1, 2015.

\*\* Standard per Risk Characterization and Management Policy Table B-2, revised September 2018.

**TABLE 2**  
**Groundwater Samples - Summary of Analytical Results**  
 Turn Key Lumber  
 162 (179) Route 12 North, Fitzwilliam, New Hampshire  
 NHDES Site #199805021

| Sample Identification<br>Sample Date                                  | Ambient Groundwater<br>Quality Standards<br>(AGQS) † | GW-1<br>2/23/22 |
|-----------------------------------------------------------------------|------------------------------------------------------|-----------------|
| <b>Polycyclic Aromatic Hydrocarbons (PAHs)<br/>by EPA Method 8270</b> |                                                      |                 |
| Acenaphthene                                                          | 420                                                  | 0.033 J         |
| Acenaphthylene                                                        | 420                                                  | 0.19 U          |
| Anthracene                                                            | 2,100                                                | 0.19 U          |
| Benzo(a)anthracene                                                    | 0.1                                                  | 0.079           |
| Benzo(a)pyrene                                                        | 0.2                                                  | 0.15            |
| Benzo(b)fluoranthene                                                  | 0.1                                                  | <b>0.21</b>     |
| Benzo(g,h,i)perylene                                                  | 210                                                  | 0.15 J          |
| Benzo(k)fluoranthene                                                  | 0.5                                                  | 0.079 J         |
| Chrysene                                                              | 5                                                    | 0.12 J          |
| Dibenz(a,h)anthracene                                                 | 0.1                                                  | 0.025 J         |
| Fluoranthene                                                          | 280                                                  | 0.13 J          |
| Fluorene                                                              | 280                                                  | 0.96 U          |
| Indeno(1,2,3-cd)pyrene                                                | 0.1                                                  | <b>0.14</b>     |
| 2-Methylnaphthalene                                                   | 280                                                  | 0.96 UB         |
| Naphthalene                                                           | 100                                                  | 0.96 UB         |
| Phenanthrene                                                          | 210                                                  | 0.028 J         |
| Pyrene                                                                | 210                                                  | 0.12 J          |
| <b>Volatile Organic Compounds (VOCs)<br/>by EPA Method 8260</b>       |                                                      |                 |
| Acetone                                                               | 6,000                                                | 8.8 J           |
| Benzene                                                               | 5                                                    | 1.0 U           |
| n-Butylbenzene                                                        | 260                                                  | 1.0 U           |
| sec-Butylbenzene                                                      | 260                                                  | 0.34 J          |
| tert-Butylbenzene                                                     | 260                                                  | 1.0 U           |
| Ethylbenzene                                                          | 700                                                  | 1.0 U           |
| Isopropylbenzene (Cumene)                                             | 800                                                  | 0.31 J          |
| Methyl tert-Butyl Ether (MTBE)                                        | 13                                                   | 1.0 U           |
| Naphthalene                                                           | 100                                                  | 2.0 U           |
| n-Propylbenzene                                                       | 260                                                  | 0.32 J          |
| Toluene                                                               | 1,000                                                | 1.0 U           |
| 1,2,4-Trimethylbenzene                                                | 330                                                  | 0.42 J          |
| 1,3,5-Trimethylbenzene                                                | 330                                                  | 1.0 U           |
| Total Xylenes                                                         | 10,000                                               | 3.0 U           |

Detected and selected other analytes listed; all others were not detected.

Results in micrograms per liter (µg/L) unless otherwise noted.

U Not detected at or above the listed laboratory reporting limit.

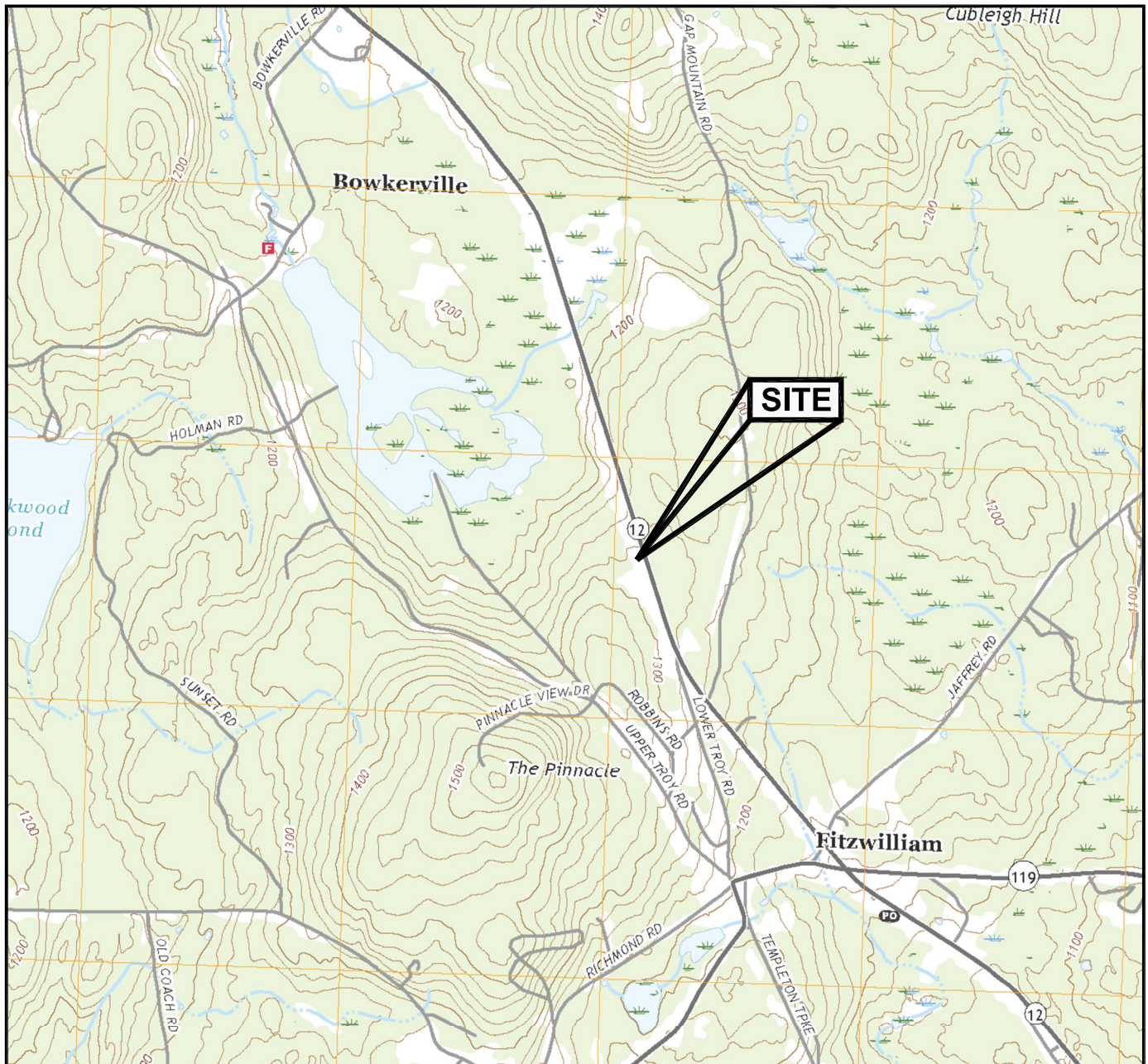
J Estimated concentration.

**bold** Detected concentration exceeds AGQS.

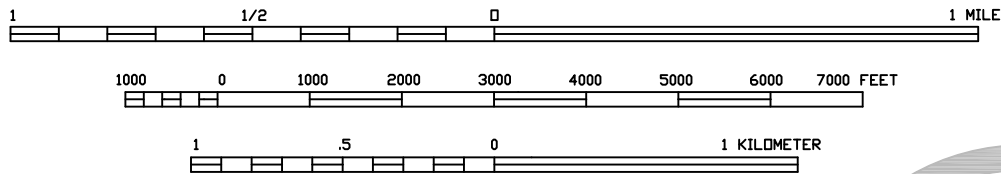
**bold italics** Not detected; laboratory reporting limit exceeds AGQS.

† Table 600-1 of Part Env-Or 603.03, AGQS, effective January 1, 2021.

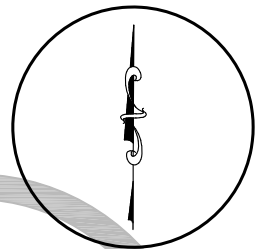
## **FIGURES**



SCALE: 1:24,000



CONTOUR INTERVAL 20 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988



|                                                                                                                                     |                                              |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|
| DATE<br>February 28, 2022                                                                                                           | SCALE<br>As shown                            | FILE<br>GAFT0165_Site Location Map |
| APPROVED BY<br>RWB                                                                                                                  | DRAWN BY<br>MMN                              | REVISED                            |
| CLIENT<br>Gaftek, Inc.                                                                                                              | JOB NUMBER<br>GAFT0165                       |                                    |
| LOCATION<br>Turn Key Lumber<br>162 (179) Route 12 North<br>Fitzwilliam, New Hampshire<br>NHDES Site #198905021<br>Facility #0112678 | MAP SOURCE<br><br>Troy, NH<br>USGS QUAD 2018 |                                    |

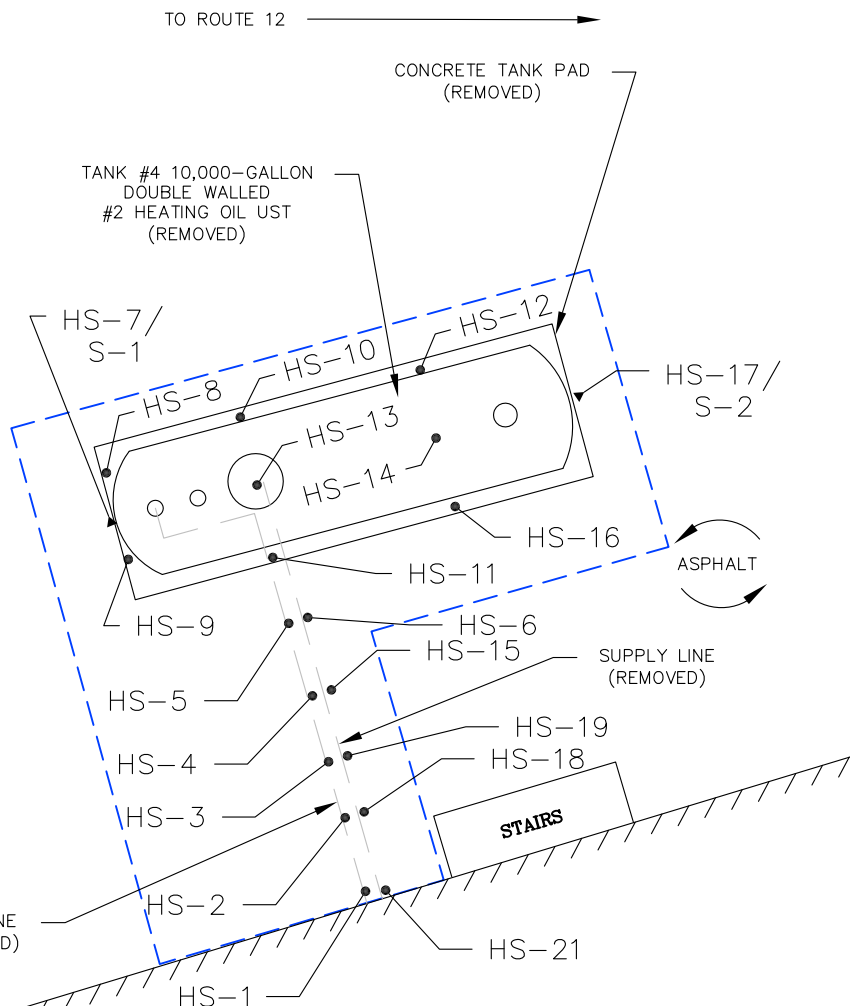
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**SITE LOCATION MAP**

*Figure 1*

### Headspace Screening Results (Parts per Million by Volume)

| SAMPLE    | DEPTH (feet) | RESULT |
|-----------|--------------|--------|
| HS-1      | 1.5          | 0.2    |
| HS-2      | 1.5          | 0.2    |
| HS-3      | 1.5          | 0.2    |
| HS-4      | 2.0          | 0.2    |
| HS-5      | 2.5          | 0.2    |
| HS-6      | 2.5          | 0.3    |
| HS-7/S-1  | 6.0          | 0.1    |
| HS-8      | 6.0          | 0.1    |
| HS-9      | 6.0          | 0.2    |
| HS-10     | 6.0          | 0.3    |
| HS-11     | 6.0          | 0.3    |
| HS-12     | 6.0          | 0.2    |
| HS-13     | 9.0          | 0.1    |
| HS-14     | 9.0          | 0.2    |
| HS-15     | 3.0          | 0.2    |
| HS-16     | 6.0          | 0.1    |
| HS-17/S-2 | 6.0          | 0.2    |
| HS-18     | 3.0          | 0.2    |
| HS-19     | 3.0          | 0.2    |
| HS-20     | 3.0          | 0.4    |
| HS-21     | 3.0          | 0.1    |



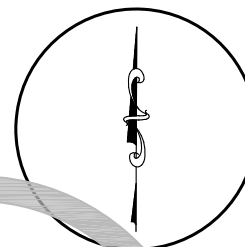
179 ROUTE 12  
FITZWILLIAM, NH

### LEGEND

|  |                                           |
|--|-------------------------------------------|
|  | APPROXIMATE EXTENT OF EXCAVATION          |
|  | UST UNDERGROUND STORAGE TANK              |
|  | HS-1 HEADSPACE SCREENING (HS) SOIL SAMPLE |
|  | HS-7/S-1 HS AND LABORATORY SOIL SAMPLE    |

### NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PLAN BASED ON WILCOX & BARTON, INC. SITE VISITS AND AERIAL IMAGERY.
3. THIS PLAN IS NOT A PROFESSIONAL BOUNDARY SURVEY AND IS NOT INTENDED FOR SURVEY PURPOSES.



|                                                                                                                                        |                        |                            |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|
| DATE<br>February 28, 2022                                                                                                              | SCALE<br>NOT TO SCALE  | FILE<br>GAFT0165_Site Plan |
| APPROVED BY<br>RWB                                                                                                                     | DRAWN BY<br>MMN        | REVISED                    |
| CLIENT<br>Gaftek, Inc.                                                                                                                 | JOB NUMBER<br>GAFT0165 |                            |
| LOCATION<br>Turn Key Lumber<br>162 (179) Route 12 North<br>Fitzwilliam, New Hampshire<br>NHDES Site #198905021<br>Facility ID #0112678 | <b>Figure 2</b>        |                            |

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**UST Closure Plan**

## **APPENDIX A**

### **Photographs**

**Attachment A - Photographs**  
Turn Key Lumber  
162 Route 12, Fitzwilliam, New Hampshire  
NHDES Site #19890502



Photo 1: 10,000-gallon UST prior to removal.  
(2/23/2022)



Photo 2: Excavation after UST removal.  
(2/23/2022)



Photo 3: Removal of 10,000-gallon UST.  
(2/23/2022)



Photo 4: 10-gallon UST post-removal.  
(2/23/2022)

**Attachment A - Photographs**  
Turn Key Lumber  
162 Route 12, Fitzwilliam, New Hampshire  
NHDES Site #19890502



Photo 5: Fuel line piping area and excavation. (2/23/2022)



Photo 6: Fuel line casing prior to removal (2/23/2022).



Photo 7: Fuel line casing after removal to building wall. (2/23/2022)



Photo 8: Product and vapor line excavation, prior to backfill. (2/23/2022)

**APPENDIX B**

**UST Closure Notification**



Underground Storage Tank/Aboveground Storage Tank  
Closure Notification



RSA 146-A&C /Env-Or 300 & 400

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Person Making Notification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Initial: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| Name: <u>Michael Rossi</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| Street: <u>179 RTE 12 North</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Telephone: <u>978-490-6691</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| City/Town: <u>Fitchwilliam NH</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Email: <u>mike@turnkeylumber.com</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| 2. DES Site # <u>198905021</u> Facility ID # <u>0112678</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| Name: <u>Fitchwilliam LLC Michael Rossi</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Telephone: <u>978 490 6691</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
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| City/Town: <u>Fitchwilliam NH</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| 3. Owner Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| Name: <u>Fitchwilliam LLC Mike Rossi</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Telephone: <u>978 490 6691</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| Street: <u>305 Leominster Shurley Rd</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| City/Town: <u>Lewiston MA 01462</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| 4. Tank Removal Information (Select All That Apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| ** L = Leaker Suspected R = Removed F = Filled in Place P = Piping Only Closed **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| <div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # <u>4</u></div><div>Size <u>10,000 gal</u></div><div>Product <u>Oil</u></div><div>Will tank/piping be replaced underground?<br/>Yes <input checked="" type="radio"/> No <input type="radio"/></div></div> <td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div></td></td></td></td> | <div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div> <td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div></td></td></td> | <div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div> <td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div><td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div></td></td> | <div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div> <td><div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div></td> | <div><div>L <input type="checkbox"/> R <input type="checkbox"/> F <input type="checkbox"/> P <input type="checkbox"/></div><div>Tank # _____</div><div>Size _____</div><div>Product _____</div><div>Will tank/piping be replaced underground?<br/>Yes <input type="radio"/> No <input type="radio"/></div></div> |
| 5. Consultant/Contractor: <u>Graftek</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ICC-U2 Certificate: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |
| 6. Local Fire Dept. Notified: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                  |

Town: Fitchwilliam Scheduled Closure Date: 11-7-19 Mailed: \_\_\_\_\_

Contact email [orcb.wmd@des.nh.gov](mailto:orcb.wmd@des.nh.gov) and phone (603) 271-3899  
PO Box 95, Concord, NH 03302-0095  
[www.des.nh.gov](http://www.des.nh.gov)

## **APPENDIX C**

### **Wilcox & Barton, Inc. Standard Operating Procedures**

## STANDARD OPERATING PROCEDURE

|                  |                                                                   |                       |              |
|------------------|-------------------------------------------------------------------|-----------------------|--------------|
| <b>Title:</b>    | PID / Jar-Headspace Screening Protocol for Organic Vapors in Soil | <b>No:</b>            | <b>FP-01</b> |
| <b>Approved:</b> | R. Rooks                                                          | <b>Original Date:</b> | 10/15/13     |
|                  |                                                                   | <b>Revised:</b>       | 3/16/17      |

### Purpose:

To screen environmental media in the field for organic vapors via analysis of headspace.

### Introduction:

A photoionization detector (PID) is a portable field meter used to detect the presence of volatile organic compounds in air. The meter responds to compounds that have ionization potentials equal to or less than the energy of the ionization source (lamp). The meter does not differentiate between compounds, and the meter response varies for different compounds. The meter readings are provided in parts-per-million by volume (ppmv) and are quantitative but non-specific.

A PID may be used to assess contamination in environmental media via measurement of organic vapors that volatilize (evaporate) from the sample into the headspace of the container holding the sample. This screening procedure does not provide a true determination of compound concentration. However, the PID is useful for screening to determine the presence or absence and relative degree of contamination by volatile organic compounds. The PID is calibrated to an isobutylene standard (100 ppmv) and a response factor (RF) is applied during calibration to equate the meter response to the contaminant of interest. For petroleum sites, the RF for benzene is used. For non-petroleum sites, the RF for the primary contaminant of concern is used.

### Equipment/Materials:

1. Thermo Environmental Instruments, Inc. Model 580B OVM/Datalogger, 10.2 electron-Volt (eV) or 11.8 eV lamp, or
2. Mini Rae 2000 equipped with a 10.6 eV lamp.
3. Other PID as approved by the Project Manager or Technical Lead
4. Isobutylene calibration gas and connecting tubing and valve
5. Glass jars (250 ml to 500 ml)
6. Aluminum foil
7. Polyethylene Whirl-Pak bags (18 oz)

### Procedure:

The following procedure is used to screen media for the presence of organic vapors with a PID using the jar-headspace method:

1. The meter is calibrated to an isobutylene standard using the manufacturer's RF for the contaminant of concern prior to screening.
2. A clean glass jar is half filled with the sample to be screened. The top of the jar is covered with a sheet of aluminum foil and the cap is screwed on.
3. Alternatively, a Whirl-Pak<sup>TM</sup> bag (or equivalent) is half filled with the sample to be screened. The bag is closed and flipped over three times and the closure tabs are twisted together to ensure a tight seal.

4. Headspace gasses over the sample are allowed to equilibrate for approximately 10 minutes at ambient air temperature. If ambient temperature is below freezing, headspace development can be performed inside a heated vehicle or space.
5. The jar or bag is vigorously shaken for 15 seconds at the beginning and the end of the equilibration period.
6. Jars: The screw cap is carefully removed and the probe of the PID meter is inserted through the foil. Bags: The bag is punctured with the probe of the PID meter.
7. The maximum meter reading is recorded. Maximum response should occur between 2 and 5 seconds. Erratic meter response may occur at high organic vapor concentrations or conditions of elevated headspace moisture. Erratic meter response should be noted in the field logs.

Additional Considerations:

For soil screening at sites in Massachusetts, MassDEP Interim Remediation Waste Management Policy for Petroleum Contaminated Sites, #WSC-94-400, specifies the use of jars, but the MCP allows alternate procedures when technically justified (see 310 CMR 40.0017). It is the position of Wilcox & Barton, Inc. that the use of a polyethylene bag is an acceptable alternative to a glass jar. This position is supported by EPA (see EPA 510-B-97-0001 Chapter VI - Field Methods for the Analysis of Petroleum Hydrocarbons) and various other states. Field personnel must consult with both the Project Manager and the LSP before using the bag technique at any Massachusetts site. Further, the user should be aware that alternate techniques may affect data usability and that additional justification for use of a polyethylene bag may be requested by MassDEP. For identifying reportable conditions in Massachusetts, the jar technique must be used.

## STANDARD OPERATING PROCEDURE

|                  |                                  |                       |            |                 |
|------------------|----------------------------------|-----------------------|------------|-----------------|
| <b>Title:</b>    | Grab and Composite Soil Sampling |                       | <b>No:</b> | <b>FP-02</b>    |
| <b>Approved:</b> | R. Rooks                         | <b>Original Date:</b> | 3/30/2017  | <b>Revised:</b> |

### Purpose:

To ensure data quality by collecting representative soil samples for laboratory analysis.

### Equipment/Materials:

1. Sample containers, preserved and handled as required for the specific media and analyses
2. Analytical chain-of-custody form(s), sample label(s), and sample custody seal
3. Coolers or other containers for transporting samples
4. Packing materials and ice
5. Appropriate clothing/PPE as specified in the health and safety plan
6. Site plan
7. Field log book or field data form
8. Stainless steel or polyethylene scoop/trowel
9. Stainless steel or polyethylene mixing bowl (for composites)
10. Sample collection equipment (hand auger, split-spoon, shovel, etc.)

### Procedure:

1. Before sampling, confer with the laboratory performing the analyses to make sure the required data quality objectives and reporting requirements will be met.
2. Obtain appropriate sample containers from the laboratory.
3. Wear dedicated nitrile gloves for each discrete sample collected. Change gloves between sample locations.

**Grab Samples** – Grab samples are samples collected from a discrete location. Soil samples may be collected using dedicated or reusable equipment. All reusable sample equipment must be decontaminated between sample locations in accordance with **SOP# FP-06**.

1. Using the appropriate soil collection method and equipment based on site conditions and the contaminants of concern, collect the appropriate volume of soil.
2. Carefully place the appropriate volume of soil into the appropriate sample container in accordance with the laboratory quality systems manual and/or laboratory method SOPs. Clean threads of sample container before placing lid back on sample container to ensure tight seal. Secure lid tightly and complete sample label with ID, date, time, required analysis, etc.
3. Record the location, depth, and characteristics of the grab soil sample in the log book. Soil characteristics should be classified in accordance with **W&B SOP# FP-14**.
4. Complete the chain-of-custody record in accordance with **W&B SOP# FP-04**, ensuring that holding time and temperature preservation requirements are maintained.

**Composite Samples** – Composite samples are grab samples collected from pre-determined locations that are mixed in a container until uniform and placed into containers for submittal to the laboratory. The number of subsamples used to create a composite will be determined during work planning and based upon the volume of soil to be represented and the data quality objectives of the project; values can range from a minimum of 8 for small stockpile characterization up to 50 subsamples when a multi-increment sampling approach is employed.

Due to potential contaminant volatilization during mixing, this method is appropriate **ONLY** for samples submitted for non-volatile analyses. Soil samples may be collected using dedicated or reusable equipment. All reusable sample equipment must be decontaminated between sample locations in accordance with **W&B SOP# FP-06**.

1. Using the appropriate soil collection method and equipment based on the contaminants of concern, collect an equal grab sample from each area to be composited. Place each grab sample into a mixing container that is appropriate based on the contaminants of concern.
2. Gently mix the sample using a cone-and-quartering method until thoroughly homogenized. Multiple iterations should be performed until homogeneity can be visualized by grain size, color, moisture content, and cohesiveness.
3. Carefully place the appropriate volume of homogenized soil into the appropriate sample container in accordance with the laboratory quality systems manual and/or laboratory method SOPs. Clean the threads of the sample container before placing lid back on sample container to ensure tight seal. Secure lid tightly and complete sample label with ID, date, time, required analysis, etc.
4. Record the number, locations, and depths of the composited grab samples in the log book. Include a sketch of the sample area and location of the grab samples that comprise the composite.
5. Complete the chain-of-custody record in accordance with **W&B SOP# FP-04**, ensuring and that holding time and temperature preservation requirements are maintained.

**APPENDIX D**

**Laboratory Results**

March 7, 2022

Russell Barton  
Wilcox & Barton  
1115 Route 100B, Suite 200  
Moretown, VT 05660

Project Location: 162 Hwy 12, Fitzwilliam, NH  
Client Job Number:  
Project Number: GAFT0165  
Laboratory Work Order Number: 22B1647

Enclosed are results of analyses for samples as received by the laboratory on February 28, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott C. Basal  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Wilcox & Barton  
1115 Route 100B, Suite 200  
Moretown, VT 05660  
ATTN: Russell Barton

REPORT DATE: 3/7/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: GAFT0165

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 22B1647

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

PROJECT LOCATION: 162 Hwy 12, Fitzwilliam, NH

| FIELD SAMPLE # | LAB ID:    | MATRIX       | SAMPLE DESCRIPTION | TEST         | SUB LAB |
|----------------|------------|--------------|--------------------|--------------|---------|
| S-1            | 22B1647-01 | Soil         |                    | SM 2540G     |         |
|                |            |              |                    | SW-846 8015C |         |
|                |            |              |                    | SW-846 8260D |         |
|                |            |              |                    | SW-846 8270E |         |
| S-2            | 22B1647-02 | Soil         |                    | SM 2540G     |         |
|                |            |              |                    | SW-846 8015C |         |
|                |            |              |                    | SW-846 8260D |         |
|                |            |              |                    | SW-846 8270E |         |
| GW-1           | 22B1647-03 | Ground Water |                    | SW-846 8260D |         |
|                |            |              |                    | SW-846 8270E |         |

**CASE NARRATIVE SUMMARY**

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

For method 8270E, only PAHs were requested and reported.

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

SW-846 8260D

**Qualifications:****PR-06**

pH of sample (pH 3) is outside of method specified preservation criteria.

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

22B1647-03[GW-1]

**R-05**

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

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

22B1647-03[GW-1], B302171-BLK1, B302171-BS1, B302171-BSD1, S068730-CCV1

**V-05**

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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

22B1647-03[GW-1], B302171-BLK1, B302171-BS1, B302171-BSD1, S068730-CCV1

**Dichlorodifluoromethane (Freon 12)**

22B1647-01[S-1], 22B1647-02[S-2], B302163-BLK1, B302163-BS1, B302163-BSD1, S068726-CCV1

**V-20**

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

**Analyte & Samples(s) Qualified:****1,1,2-Trichloro-1,2,2-trifluoroethane**

B302163-BS1, B302163-BSD1, S068726-CCV1

**Z-01**

Sample poured off into another vial with headspace due to sediment present in sample vial.

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

22B1647-03[GW-1]

SW-846 8270E

**Qualifications:****B**

Analyte is found in the associated laboratory blank as well as in the sample.

**Analyte & Samples(s) Qualified:****2-Methylnaphthalene (SIM)**

22B1647-03[GW-1], B302397-BLK1

**Naphthalene (SIM)**

22B1647-03[GW-1], B302397-BLK1

**B-05**

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

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

B302397-BLK1

**S-07**

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are &gt; 10%.

**Analyte & Samples(s) Qualified:****p-Terphenyl-d14**

B302397-BLK1

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

**SW-846 8015C**

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil standard.

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

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



Lisa A. Worthington  
Technical Representative

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-1

Sampled: 2/23/2022 13:00

Sample ID: 22B1647-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

| Analyte                            | Results | RL     | DL      | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone                            | ND      | 0.11   | 0.010   | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Acrylonitrile                      | ND      | 0.0069 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| tert-Amyl Methyl Ether (TAME)      | ND      | 0.0011 | 0.00042 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Benzene                            | ND      | 0.0023 | 0.00063 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Bromobenzene                       | ND      | 0.0023 | 0.00042 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Bromochloromethane                 | ND      | 0.0023 | 0.0010  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Bromodichloromethane               | ND      | 0.0023 | 0.00056 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Bromoform                          | ND      | 0.0023 | 0.00071 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Bromomethane                       | ND      | 0.011  | 0.0019  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 2-Butanone (MEK)                   | ND      | 0.046  | 0.0065  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| tert-Butyl Alcohol (TBA)           | ND      | 0.11   | 0.053   | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| n-Butylbenzene                     | ND      | 0.0023 | 0.00067 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| sec-Butylbenzene                   | ND      | 0.0023 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| tert-Butylbenzene                  | ND      | 0.0023 | 0.00089 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| tert-Butyl Ethyl Ether (TBEE)      | ND      | 0.0011 | 0.00056 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Carbon Disulfide                   | ND      | 0.011  | 0.0080  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Carbon Tetrachloride               | ND      | 0.0023 | 0.0010  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Chlorobenzene                      | ND      | 0.0023 | 0.00067 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Chlorodibromomethane               | ND      | 0.0011 | 0.00066 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Chloroethane                       | ND      | 0.023  | 0.0014  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Chloroform                         | ND      | 0.0046 | 0.00067 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Chloromethane                      | ND      | 0.011  | 0.0012  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 2-Chlorotoluene                    | ND      | 0.0023 | 0.00057 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 4-Chlorotoluene                    | ND      | 0.0023 | 0.00047 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND      | 0.0023 | 0.0010  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2-Dibromoethane (EDB)            | ND      | 0.0011 | 0.00077 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Dibromomethane                     | ND      | 0.0023 | 0.00084 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2-Dichlorobenzene                | ND      | 0.0023 | 0.00050 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,3-Dichlorobenzene                | ND      | 0.0023 | 0.00057 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,4-Dichlorobenzene                | ND      | 0.0023 | 0.00061 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| trans-1,4-Dichloro-2-butene        | ND      | 0.0046 | 0.00083 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Dichlorodifluoromethane (Freon 12) | ND      | 0.023  | 0.0012  | mg/Kg dry | 1        | V-05, U   | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1-Dichloroethane                 | ND      | 0.0023 | 0.00079 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2-Dichloroethane                 | ND      | 0.0023 | 0.00075 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1-Dichloroethylene               | ND      | 0.0046 | 0.00081 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| cis-1,2-Dichloroethylene           | ND      | 0.0023 | 0.00064 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| trans-1,2-Dichloroethylene         | ND      | 0.0023 | 0.00077 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2-Dichloropropane                | ND      | 0.0023 | 0.00065 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,3-Dichloropropane                | ND      | 0.0011 | 0.00059 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 2,2-Dichloropropane                | ND      | 0.0023 | 0.00094 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1-Dichloropropene                | ND      | 0.0023 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| cis-1,3-Dichloropropene            | ND      | 0.0011 | 0.00058 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| trans-1,3-Dichloropropene          | ND      | 0.0011 | 0.00057 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Diethyl Ether                      | ND      | 0.023  | 0.00082 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-1

Sampled: 2/23/2022 13:00

Sample ID: 22B1647-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

| Analyte                                           | Results    | RL     | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|------------|--------|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE)                          | ND         | 0.0011 | 0.00065         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,4-Dioxane                                       | ND         | 0.11   | 0.041           | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Ethylbenzene                                      | ND         | 0.0023 | 0.00062         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Hexachlorobutadiene                               | ND         | 0.0023 | 0.00085         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 2-Hexanone (MBK)                                  | ND         | 0.023  | 0.0065          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Isopropylbenzene (Cumene)                         | ND         | 0.0023 | 0.00081         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| p-Isopropyltoluene (p-Cymene)                     | ND         | 0.0023 | 0.00064         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Methyl Acetate                                    | ND         | 0.0023 | 0.0017          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Methyl tert-Butyl Ether (MTBE)                    | ND         | 0.0046 | 0.00041         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Methyl Cyclohexane                                | ND         | 0.0023 | 0.00086         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Methylene Chloride                                | ND         | 0.023  | 0.0017          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 4-Methyl-2-pentanone (MIBK)                       | ND         | 0.023  | 0.0048          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Naphthalene                                       | ND         | 0.0046 | 0.00062         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| n-Propylbenzene                                   | ND         | 0.0023 | 0.00055         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Styrene                                           | ND         | 0.0023 | 0.00047         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1,1,2-Tetrachloroethane                         | ND         | 0.0023 | 0.00064         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1,2,2-Tetrachloroethane                         | ND         | 0.0011 | 0.00059         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Tetrachloroethylene                               | ND         | 0.0023 | 0.00076         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Tetrahydrofuran                                   | ND         | 0.011  | 0.0039          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Toluene                                           | ND         | 0.0023 | 0.00059         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2,3-Trichlorobenzene                            | ND         | 0.0023 | 0.00062         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2,4-Trichlorobenzene                            | ND         | 0.0023 | 0.00055         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,3,5-Trichlorobenzene                            | ND         | 0.0023 | 0.00057         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1,1-Trichloroethane                             | ND         | 0.0023 | 0.00091         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1,2-Trichloroethane                             | ND         | 0.0023 | 0.00052         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Trichloroethylene                                 | ND         | 0.0023 | 0.00075         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Trichlorofluoromethane (Freon 11)                 | ND         | 0.011  | 0.00055         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2,3-Trichloropropane                            | ND         | 0.0023 | 0.0012          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND         | 0.011  | 0.00075         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,2,4-Trimethylbenzene                            | ND         | 0.0023 | 0.00076         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| 1,3,5-Trimethylbenzene                            | ND         | 0.0023 | 0.00060         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Vinyl Chloride                                    | ND         | 0.011  | 0.00073         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| m+p Xylene                                        | ND         | 0.0046 | 0.0015          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| o-Xylene                                          | ND         | 0.0023 | 0.00049         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:29        | MFF     |
| Surrogates                                        | % Recovery |        | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| 1,2-Dichloroethane-d4                             | 122        |        | 70-130          |           |           |           | 3/1/22 6:29  |               |                    |         |
| Toluene-d8                                        | 100        |        | 70-130          |           |           |           | 3/1/22 6:29  |               |                    |         |
| 4-Bromofluorobenzene                              | 95.3       |        | 70-130          |           |           |           | 3/1/22 6:29  |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-1

Sampled: 2/23/2022 13:00

Sample ID: 22B1647-01

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL   | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|------|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.22 | 0.068           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Acenaphthylene         | ND         | 0.22 | 0.066           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Anthracene             | ND         | 0.22 | 0.071           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Benzo(a)anthracene     | ND         | 0.22 | 0.060           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Benzo(a)pyrene         | ND         | 0.22 | 0.066           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Benzo(b)fluoranthene   | ND         | 0.22 | 0.065           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Benzo(g,h,i)perylene   | ND         | 0.22 | 0.091           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.22 | 0.059           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Chrysene               | ND         | 0.22 | 0.063           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.22 | 0.088           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Fluoranthene           | ND         | 0.22 | 0.069           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Fluorene               | ND         | 0.22 | 0.073           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Indeno(1,2,3-cd)pyrene | ND         | 0.22 | 0.098           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| 2-Methylnaphthalene    | ND         | 0.22 | 0.068           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Naphthalene            | ND         | 0.22 | 0.059           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Phenanthrene           | ND         | 0.22 | 0.068           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Pyrene                 | ND         | 0.22 | 0.069           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 16:45       | BGL     |
| Surrogates             | % Recovery |      | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| Nitrobenzene-d5        | 65.8       |      | 30-130          |           |           |           | 3/2/22 16:45 |               |                    |         |
| 2-Fluorobiphenyl       | 72.4       |      | 30-130          |           |           |           | 3/2/22 16:45 |               |                    |         |
| p-Terphenyl-d14        | 76.6       |      | 30-130          |           |           |           | 3/2/22 16:45 |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-1

Sampled: 2/23/2022 13:00

Sample ID: 22B1647-01

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

| Analyte               | Results    | RL | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|-----------------------|------------|----|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Diesel Range Organics | 3.7        | 11 | 3.5             | mg/Kg dry | 1         | J         | SW-846 8015C | 3/1/22        | 3/3/22 19:02       | SFM     |
| Surrogates            | % Recovery |    | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| 2-Fluorobiphenyl      | 72.2       |    | 40-140          |           |           |           | 3/3/22 19:02 |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-1

Sampled: 2/23/2022 13:00

Sample ID: 22B1647-01

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 78.5    |    | % Wt  | 1        |           | SM 2540G | 3/2/22           | 3/2/22 15:56          | WAT     |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-2

Sampled: 2/23/2022 14:00

Sample ID: 22B1647-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

| Analyte                            | Results | RL     | DL      | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone                            | ND      | 0.11   | 0.010   | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Acrylonitrile                      | ND      | 0.0067 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| tert-Amyl Methyl Ether (TAME)      | ND      | 0.0011 | 0.00041 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Benzene                            | ND      | 0.0022 | 0.00062 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Bromobenzene                       | ND      | 0.0022 | 0.00041 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Bromochloromethane                 | ND      | 0.0022 | 0.00098 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Bromodichloromethane               | ND      | 0.0022 | 0.00055 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Bromoform                          | ND      | 0.0022 | 0.00069 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Bromomethane                       | ND      | 0.011  | 0.0018  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 2-Butanone (MEK)                   | ND      | 0.045  | 0.0064  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| tert-Butyl Alcohol (TBA)           | ND      | 0.11   | 0.052   | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| n-Butylbenzene                     | ND      | 0.0022 | 0.00066 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| sec-Butylbenzene                   | ND      | 0.0022 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| tert-Butylbenzene                  | ND      | 0.0022 | 0.00087 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| tert-Butyl Ethyl Ether (TBEE)      | ND      | 0.0011 | 0.00055 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Carbon Disulfide                   | ND      | 0.011  | 0.0079  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Carbon Tetrachloride               | ND      | 0.0022 | 0.00098 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Chlorobenzene                      | ND      | 0.0022 | 0.00066 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Chlorodibromomethane               | ND      | 0.0011 | 0.00064 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Chloroethane                       | ND      | 0.022  | 0.0014  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Chloroform                         | ND      | 0.0045 | 0.00066 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Chloromethane                      | ND      | 0.011  | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 2-Chlorotoluene                    | ND      | 0.0022 | 0.00056 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 4-Chlorotoluene                    | ND      | 0.0022 | 0.00046 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND      | 0.0022 | 0.00098 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2-Dibromoethane (EDB)            | ND      | 0.0011 | 0.00075 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Dibromomethane                     | ND      | 0.0022 | 0.00082 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2-Dichlorobenzene                | ND      | 0.0022 | 0.00049 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,3-Dichlorobenzene                | ND      | 0.0022 | 0.00056 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,4-Dichlorobenzene                | ND      | 0.0022 | 0.00060 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| trans-1,4-Dichloro-2-butene        | ND      | 0.0045 | 0.00082 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Dichlorodifluoromethane (Freon 12) | ND      | 0.022  | 0.0012  | mg/Kg dry | 1        | V-05, U   | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1-Dichloroethane                 | ND      | 0.0022 | 0.00078 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2-Dichloroethane                 | ND      | 0.0022 | 0.00074 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1-Dichloroethylene               | ND      | 0.0045 | 0.00080 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| cis-1,2-Dichloroethylene           | ND      | 0.0022 | 0.00063 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| trans-1,2-Dichloroethylene         | ND      | 0.0022 | 0.00075 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2-Dichloropropane                | ND      | 0.0022 | 0.00064 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,3-Dichloropropane                | ND      | 0.0011 | 0.00058 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 2,2-Dichloropropane                | ND      | 0.0022 | 0.00093 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1-Dichloropropene                | ND      | 0.0022 | 0.0011  | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| cis-1,3-Dichloropropene            | ND      | 0.0011 | 0.00057 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| trans-1,3-Dichloropropene          | ND      | 0.0011 | 0.00056 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Diethyl Ether                      | ND      | 0.022  | 0.00080 | mg/Kg dry | 1        | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-2

Sampled: 2/23/2022 14:00

Sample ID: 22B1647-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

| Analyte                                           | Results    | RL     | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|------------|--------|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE)                          | ND         | 0.0011 | 0.00064         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,4-Dioxane                                       | ND         | 0.11   | 0.040           | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Ethylbenzene                                      | ND         | 0.0022 | 0.00061         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Hexachlorobutadiene                               | ND         | 0.0022 | 0.00083         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 2-Hexanone (MBK)                                  | ND         | 0.022  | 0.0064          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Isopropylbenzene (Cumene)                         | ND         | 0.0022 | 0.00079         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| p-Isopropyltoluene (p-Cymene)                     | ND         | 0.0022 | 0.00063         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Methyl Acetate                                    | ND         | 0.0022 | 0.0017          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Methyl tert-Butyl Ether (MTBE)                    | ND         | 0.0045 | 0.00040         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Methyl Cyclohexane                                | ND         | 0.0022 | 0.00084         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Methylene Chloride                                | ND         | 0.022  | 0.0017          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 4-Methyl-2-pentanone (MIBK)                       | ND         | 0.022  | 0.0047          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Naphthalene                                       | ND         | 0.0045 | 0.00061         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| n-Propylbenzene                                   | ND         | 0.0022 | 0.00054         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Styrene                                           | ND         | 0.0022 | 0.00046         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1,1,2-Tetrachloroethane                         | ND         | 0.0022 | 0.00063         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1,2,2-Tetrachloroethane                         | ND         | 0.0011 | 0.00058         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Tetrachloroethylene                               | ND         | 0.0022 | 0.00075         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Tetrahydrofuran                                   | ND         | 0.011  | 0.0038          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Toluene                                           | ND         | 0.0022 | 0.00058         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2,3-Trichlorobenzene                            | ND         | 0.0022 | 0.00060         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2,4-Trichlorobenzene                            | ND         | 0.0022 | 0.00054         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,3,5-Trichlorobenzene                            | ND         | 0.0022 | 0.00056         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1,1-Trichloroethane                             | ND         | 0.0022 | 0.00089         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1,2-Trichloroethane                             | ND         | 0.0022 | 0.00051         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Trichloroethylene                                 | ND         | 0.0022 | 0.00074         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Trichlorofluoromethane (Freon 11)                 | ND         | 0.011  | 0.00054         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2,3-Trichloropropane                            | ND         | 0.0022 | 0.0012          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND         | 0.011  | 0.00074         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,2,4-Trimethylbenzene                            | ND         | 0.0022 | 0.00075         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| 1,3,5-Trimethylbenzene                            | ND         | 0.0022 | 0.00059         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Vinyl Chloride                                    | ND         | 0.011  | 0.00072         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| m+p Xylene                                        | ND         | 0.0045 | 0.0015          | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| o-Xylene                                          | ND         | 0.0022 | 0.00049         | mg/Kg dry | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 6:55        | MFF     |
| Surrogates                                        | % Recovery |        | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| 1,2-Dichloroethane-d4                             | 124        |        | 70-130          |           |           |           | 3/1/22 6:55  |               |                    |         |
| Toluene-d8                                        | 99.0       |        | 70-130          |           |           |           | 3/1/22 6:55  |               |                    |         |
| 4-Bromofluorobenzene                              | 99.8       |        | 70-130          |           |           |           | 3/1/22 6:55  |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-2

Sampled: 2/23/2022 14:00

Sample ID: 22B1647-02

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL   | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|------|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.20 | 0.063           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Acenaphthylene         | ND         | 0.20 | 0.062           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Anthracene             | ND         | 0.20 | 0.066           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Benzo(a)anthracene     | ND         | 0.20 | 0.056           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Benzo(a)pyrene         | ND         | 0.20 | 0.062           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Benzo(b)fluoranthene   | ND         | 0.20 | 0.061           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Benzo(g,h,i)perylene   | ND         | 0.20 | 0.085           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.20 | 0.055           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Chrysene               | ND         | 0.20 | 0.058           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.20 | 0.082           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Fluoranthene           | ND         | 0.20 | 0.064           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Fluorene               | ND         | 0.20 | 0.068           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Indeno(1,2,3-cd)pyrene | ND         | 0.20 | 0.092           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| 2-Methylnaphthalene    | ND         | 0.20 | 0.064           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Naphthalene            | ND         | 0.20 | 0.055           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Phenanthrene           | ND         | 0.20 | 0.064           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Pyrene                 | ND         | 0.20 | 0.064           | mg/Kg dry | 1         | U         | SW-846 8270E | 3/1/22        | 3/2/22 17:11       | BGL     |
| Surrogates             | % Recovery |      | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| Nitrobenzene-d5        | 69.1       |      | 30-130          |           |           |           | 3/2/22 17:11 |               |                    |         |
| 2-Fluorobiphenyl       | 75.1       |      | 30-130          |           |           |           | 3/2/22 17:11 |               |                    |         |
| p-Terphenyl-d14        | 78.0       |      | 30-130          |           |           |           | 3/2/22 17:11 |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-2

Sampled: 2/23/2022 14:00

Sample ID: 22B1647-02

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

| Analyte               | Results    | RL  | DL              | Units     | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|-----------------------|------------|-----|-----------------|-----------|-----------|-----------|--------------|---------------|--------------------|---------|
| Diesel Range Organics | 3.8        | 9.9 | 3.3             | mg/Kg dry | 1         | J         | SW-846 8015C | 3/1/22        | 3/3/22 19:33       | SFM     |
| Surrogates            | % Recovery |     | Recovery Limits |           | Flag/Qual |           |              |               |                    |         |
| 2-Fluorobiphenyl      | 71.9       |     | 40-140          |           |           |           | 3/3/22 19:33 |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: S-2

Sampled: 2/23/2022 14:00

Sample ID: 22B1647-02

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 84.1    |    | % Wt  | 1        |           | SM 2540G | 3/2/22        | 3/2/22 15:56       | WAT     |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: GW-1

Sampled: 2/23/2022 14:15

Sample ID: 22B1647-03

Sample Matrix: Ground Water

Sample Flags: PR-06, Z-01

## Volatile Organic Compounds by GC/MS

| Analyte                            | Results | RL   | DL   | Units | Dilution | Flag/Qual     | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|------|-------|----------|---------------|--------------|---------------|--------------------|---------|
| Acetone                            | 8.8     | 50   | 2.0  | µg/L  | 1        | J             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Acrylonitrile                      | ND      | 5.0  | 0.55 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| tert-Amyl Methyl Ether (TAME)      | ND      | 0.50 | 0.14 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Benzene                            | ND      | 1.0  | 0.20 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Bromobenzene                       | ND      | 1.0  | 0.15 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Bromochloromethane                 | ND      | 1.0  | 0.31 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Bromodichloromethane               | ND      | 0.50 | 0.18 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Bromoform                          | ND      | 1.0  | 0.38 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Bromomethane                       | ND      | 2.0  | 1.5  | µg/L  | 1        | R-05, V-05, U | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 2-Butanone (MEK)                   | ND      | 20   | 1.6  | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| tert-Butyl Alcohol (TBA)           | ND      | 20   | 4.7  | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| n-Butylbenzene                     | ND      | 1.0  | 0.15 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| sec-Butylbenzene                   | 0.34    | 1.0  | 0.11 | µg/L  | 1        | J             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| tert-Butylbenzene                  | ND      | 1.0  | 0.13 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| tert-Butyl Ethyl Ether (TBEE)      | ND      | 0.50 | 0.15 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Carbon Disulfide                   | ND      | 5.0  | 1.4  | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Carbon Tetrachloride               | ND      | 5.0  | 0.16 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Chlorobenzene                      | ND      | 1.0  | 0.11 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Chlorodibromomethane               | ND      | 0.50 | 0.22 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Chloroethane                       | ND      | 2.0  | 0.32 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Chloroform                         | ND      | 2.0  | 0.17 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Chloromethane                      | ND      | 2.0  | 0.52 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 2-Chlorotoluene                    | ND      | 1.0  | 0.11 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 4-Chlorotoluene                    | ND      | 1.0  | 0.12 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND      | 5.0  | 0.80 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2-Dibromoethane (EDB)            | ND      | 0.50 | 0.17 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Dibromomethane                     | ND      | 1.0  | 0.35 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2-Dichlorobenzene                | ND      | 1.0  | 0.12 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,3-Dichlorobenzene                | ND      | 1.0  | 0.12 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,4-Dichlorobenzene                | ND      | 1.0  | 0.13 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| trans-1,4-Dichloro-2-butene        | ND      | 2.0  | 1.6  | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Dichlorodifluoromethane (Freon 12) | ND      | 2.0  | 0.19 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1-Dichloroethane                 | ND      | 1.0  | 0.14 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2-Dichloroethane                 | ND      | 1.0  | 0.31 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1-Dichloroethylene               | ND      | 1.0  | 0.14 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| cis-1,2-Dichloroethylene           | ND      | 1.0  | 0.15 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| trans-1,2-Dichloroethylene         | ND      | 1.0  | 0.17 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2-Dichloropropane                | ND      | 1.0  | 0.18 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,3-Dichloropropane                | ND      | 0.50 | 0.13 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 2,2-Dichloropropane                | ND      | 1.0  | 0.33 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1-Dichloropropene                | ND      | 2.0  | 0.15 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| cis-1,3-Dichloropropene            | ND      | 0.50 | 0.16 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| trans-1,3-Dichloropropene          | ND      | 0.50 | 0.17 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Diethyl Ether                      | ND      | 2.0  | 0.18 | µg/L  | 1        | U             | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: GW-1

Sampled: 2/23/2022 14:15

Sample ID: 22B1647-03

Sample Matrix: Ground Water

Sample Flags: PR-06, Z-01

## Volatile Organic Compounds by GC/MS

| Analyte                                           | Results    | RL   | DL              | Units | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|------------|------|-----------------|-------|-----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE)                          | ND         | 0.50 | 0.13            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,4-Dioxane                                       | ND         | 50   | 21              | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Ethylbenzene                                      | ND         | 1.0  | 0.21            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Hexachlorobutadiene                               | ND         | 0.60 | 0.46            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 2-Hexanone (MBK)                                  | ND         | 10   | 1.1             | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Isopropylbenzene (Cumene)                         | 0.31       | 1.0  | 0.11            | µg/L  | 1         | J         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| p-Isopropyltoluene (p-Cymene)                     | ND         | 1.0  | 0.097           | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Methyl Acetate                                    | ND         | 1.0  | 0.45            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Methyl tert-Butyl Ether (MTBE)                    | ND         | 1.0  | 0.17            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Methyl Cyclohexane                                | ND         | 1.0  | 0.24            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Methylene Chloride                                | ND         | 5.0  | 0.23            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 4-Methyl-2-pentanone (MIBK)                       | ND         | 10   | 1.3             | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Naphthalene                                       | ND         | 2.0  | 0.24            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| n-Propylbenzene                                   | 0.32       | 1.0  | 0.086           | µg/L  | 1         | J         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Styrene                                           | ND         | 1.0  | 0.11            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1,1,2-Tetrachloroethane                         | ND         | 1.0  | 0.18            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1,2,2-Tetrachloroethane                         | ND         | 0.50 | 0.13            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Tetrachloroethylene                               | ND         | 1.0  | 0.19            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Tetrahydrofuran                                   | ND         | 10   | 0.49            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Toluene                                           | ND         | 1.0  | 0.22            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2,3-Trichlorobenzene                            | ND         | 5.0  | 0.30            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2,4-Trichlorobenzene                            | ND         | 1.0  | 0.25            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,3,5-Trichlorobenzene                            | ND         | 1.0  | 0.21            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1,1-Trichloroethane                             | ND         | 1.0  | 0.17            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1,2-Trichloroethane                             | ND         | 1.0  | 0.18            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Trichloroethylene                                 | ND         | 1.0  | 0.19            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Trichlorofluoromethane (Freon 11)                 | ND         | 2.0  | 0.18            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2,3-Trichloropropane                            | ND         | 2.0  | 0.28            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND         | 1.0  | 0.23            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,2,4-Trimethylbenzene                            | 0.42       | 1.0  | 0.20            | µg/L  | 1         | J         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| 1,3,5-Trimethylbenzene                            | ND         | 1.0  | 0.11            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Vinyl Chloride                                    | ND         | 2.0  | 0.21            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| m+p Xylene                                        | ND         | 2.0  | 0.46            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| o-Xylene                                          | ND         | 1.0  | 0.23            | µg/L  | 1         | U         | SW-846 8260D | 3/1/22        | 3/1/22 20:02       | EEH     |
| Surrogates                                        | % Recovery |      | Recovery Limits |       | Flag/Qual |           |              |               |                    |         |
| 1,2-Dichloroethane-d4                             | 93.9       |      | 70-130          |       |           |           | 3/1/22 20:02 |               |                    |         |
| Toluene-d8                                        | 97.9       |      | 70-130          |       |           |           | 3/1/22 20:02 |               |                    |         |
| 4-Bromofluorobenzene                              | 99.4       |      | 70-130          |       |           |           | 3/1/22 20:02 |               |                    |         |

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

Project Location: 162 Hwy 12, Fitzwilliam, NH

Sample Description:

Work Order: 22B1647

Date Received: 2/28/2022

Field Sample #: GW-1

Sampled: 2/23/2022 14:15

Sample ID: 22B1647-03

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

| Analyte                      | Results    | RL    | DL              | Units | Dilution  | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------|------------|-------|-----------------|-------|-----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene (SIM)           | 0.033      | 0.29  | 0.019           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Acenaphthylene (SIM)         | ND         | 0.19  | 0.015           | µg/L  | 1         | U         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Anthracene (SIM)             | ND         | 0.19  | 0.012           | µg/L  | 1         | U         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Benzo(a)anthracene (SIM)     | 0.079      | 0.048 | 0.014           | µg/L  | 1         |           | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Benzo(a)pyrene (SIM)         | 0.15       | 0.096 | 0.014           | µg/L  | 1         |           | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Benzo(b)fluoranthene (SIM)   | 0.21       | 0.048 | 0.015           | µg/L  | 1         |           | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Benzo(g,h,i)perylene (SIM)   | 0.15       | 0.48  | 0.017           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Benzo(k)fluoranthene (SIM)   | 0.079      | 0.19  | 0.011           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Chrysene (SIM)               | 0.12       | 0.19  | 0.012           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Dibenz(a,h)anthracene (SIM)  | 0.025      | 0.096 | 0.018           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Fluoranthene (SIM)           | 0.13       | 0.48  | 0.013           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Fluorene (SIM)               | ND         | 0.96  | 0.016           | µg/L  | 1         | U         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Indeno(1,2,3-cd)pyrene (SIM) | 0.14       | 0.096 | 0.017           | µg/L  | 1         |           | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| 2-Methylnaphthalene (SIM)    | 0.13       | 0.96  | 0.035           | µg/L  | 1         | B, J      | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Naphthalene (SIM)            | 0.26       | 0.96  | 0.025           | µg/L  | 1         | B, J      | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Phenanthrene (SIM)           | 0.028      | 0.048 | 0.015           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Pyrene (SIM)                 | 0.12       | 0.96  | 0.014           | µg/L  | 1         | J         | SW-846 8270E | 3/1/22        | 3/4/22 7:15        | IMR     |
| Surrogates                   | % Recovery |       | Recovery Limits |       | Flag/Qual |           |              |               |                    |         |
| Nitrobenzene-d5              | 95.0       |       | 30-130          |       |           |           | 3/4/22 7:15  |               |                    |         |
| 2-Fluorobiphenyl             | 74.4       |       | 30-130          |       |           |           | 3/4/22 7:15  |               |                    |         |
| p-Terphenyl-d14              | 116        |       | 30-130          |       |           |           | 3/4/22 7:15  |               |                    |         |

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

**Sample Extraction Data****Prep Method: % Solids      Analytical Method: SM 2540G**

| Lab Number [Field ID] | Batch   | Date     |
|-----------------------|---------|----------|
| 22B1647-01 [S-1]      | B302284 | 03/02/22 |
| 22B1647-02 [S-2]      | B302284 | 03/02/22 |

**Prep Method: SW-846 3546      Analytical Method: SW-846 8015C**

| Lab Number [Field ID] | Batch   | Initial [g] | Final [mL] | Date     |
|-----------------------|---------|-------------|------------|----------|
| 22B1647-01 [S-1]      | B302154 | 30.0        | 1.00       | 03/01/22 |
| 22B1647-02 [S-2]      | B302154 | 30.0        | 1.00       | 03/01/22 |

**Prep Method: SW-846 5035      Analytical Method: SW-846 8260D**

| Lab Number [Field ID] | Batch   | Initial [g] | Final [mL] | Date     |
|-----------------------|---------|-------------|------------|----------|
| 22B1647-01 [S-1]      | B302163 | 5.57        | 10.0       | 03/01/22 |
| 22B1647-02 [S-2]      | B302163 | 5.29        | 10.0       | 03/01/22 |

**Prep Method: SW-846 5030B      Analytical Method: SW-846 8260D**

| Lab Number [Field ID] | Batch   | Initial [mL] | Final [mL] | Date     |
|-----------------------|---------|--------------|------------|----------|
| 22B1647-03 [GW-1]     | B302171 | 5            | 5.00       | 03/01/22 |

**Prep Method: SW-846 3546      Analytical Method: SW-846 8270E**

| Lab Number [Field ID] | Batch   | Initial [g] | Final [mL] | Date     |
|-----------------------|---------|-------------|------------|----------|
| 22B1647-01 [S-1]      | B302155 | 30.0        | 1.00       | 03/01/22 |
| 22B1647-02 [S-2]      | B302155 | 30.0        | 1.00       | 03/01/22 |

**Prep Method: SW-846 3510C      Analytical Method: SW-846 8270E**

| Lab Number [Field ID] | Batch   | Initial [mL] | Final [mL] | Date     |
|-----------------------|---------|--------------|------------|----------|
| 22B1647-03 [GW-1]     | B302397 | 1040         | 1.00       | 03/01/22 |

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

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

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes   |
|------------------------------------|--------|--------------------|-----------|-------------------------------|------------------|------|----------------|-----|--------------|---------|
| <b>Batch B302163 - SW-846 5035</b> |        |                    |           |                               |                  |      |                |     |              |         |
| <b>Blank (B302163-BLK1)</b>        |        |                    |           | Prepared & Analyzed: 03/01/22 |                  |      |                |     |              |         |
| Acetone                            | ND     | 0.10               | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Acrylonitrile                      | ND     | 0.0060             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| tert-Amyl Methyl Ether (TAME)      | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Benzene                            | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Bromobenzene                       | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Bromochloromethane                 | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Bromodichloromethane               | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Bromoform                          | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Bromomethane                       | ND     | 0.010              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 2-Butanone (MEK)                   | ND     | 0.040              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| tert-Butyl Alcohol (TBA)           | ND     | 0.10               | mg/Kg wet |                               |                  |      |                |     |              | U       |
| n-Butylbenzene                     | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| sec-Butylbenzene                   | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| tert-Butylbenzene                  | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| tert-Butyl Ethyl Ether (TBEE)      | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Carbon Disulfide                   | ND     | 0.010              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Carbon Tetrachloride               | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Chlorobenzene                      | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Chlorodibromomethane               | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Chloroethane                       | ND     | 0.020              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Chloroform                         | ND     | 0.0040             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Chloromethane                      | ND     | 0.010              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 2-Chlorotoluene                    | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 4-Chlorotoluene                    | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,2-Dibromoethane (EDB)            | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Dibromomethane                     | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,2-Dichlorobenzene                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,3-Dichlorobenzene                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,4-Dichlorobenzene                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| trans-1,4-Dichloro-2-butene        | ND     | 0.0040             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Dichlorodifluoromethane (Freon 12) | ND     | 0.020              | mg/Kg wet |                               |                  |      |                |     |              | V-05, U |
| 1,1-Dichloroethane                 | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,2-Dichloroethane                 | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,1-Dichloroethylene               | ND     | 0.0040             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| cis-1,2-Dichloroethylene           | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| trans-1,2-Dichloroethylene         | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,2-Dichloropropane                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,3-Dichloropropane                | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 2,2-Dichloropropane                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,1-Dichloropropene                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| cis-1,3-Dichloropropene            | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| trans-1,3-Dichloropropene          | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Diethyl Ether                      | ND     | 0.020              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Diisopropyl Ether (DIPE)           | ND     | 0.0010             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 1,4-Dioxane                        | ND     | 0.10               | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Ethylbenzene                       | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Hexachlorobutadiene                | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| 2-Hexanone (MBK)                   | ND     | 0.020              | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Isopropylbenzene (Cumene)          | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| p-Isopropyltoluene (p-Cymene)      | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |
| Methyl Acetate                     | ND     | 0.0020             | mg/Kg wet |                               |                  |      |                |     |              | U       |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B302163 - SW-846 5035**
**Blank (B302163-BLK1)**

Prepared &amp; Analyzed: 03/01/22

|                                                   |    |        |           |  |  |  |  |  |  |   |
|---------------------------------------------------|----|--------|-----------|--|--|--|--|--|--|---|
| Methyl tert-Butyl Ether (MTBE)                    | ND | 0.0040 | mg/Kg wet |  |  |  |  |  |  | U |
| Methyl Cyclohexane                                | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Methylene Chloride                                | ND | 0.020  | mg/Kg wet |  |  |  |  |  |  | U |
| 4-Methyl-2-pentanone (MIBK)                       | ND | 0.020  | mg/Kg wet |  |  |  |  |  |  | U |
| Naphthalene                                       | ND | 0.0040 | mg/Kg wet |  |  |  |  |  |  | U |
| n-Propylbenzene                                   | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Styrene                                           | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,1,1,2-Tetrachloroethane                         | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,1,2,2-Tetrachloroethane                         | ND | 0.0010 | mg/Kg wet |  |  |  |  |  |  | U |
| Tetrachloroethylene                               | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Tetrahydrofuran                                   | ND | 0.010  | mg/Kg wet |  |  |  |  |  |  | U |
| Toluene                                           | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,2,3-Trichlorobenzene                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,2,4-Trichlorobenzene                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,3,5-Trichlorobenzene                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,1,1-Trichloroethane                             | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,1,2-Trichloroethane                             | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Trichloroethylene                                 | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Trichlorofluoromethane (Freon 11)                 | ND | 0.010  | mg/Kg wet |  |  |  |  |  |  | U |
| 1,2,3-Trichloropropane                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010  | mg/Kg wet |  |  |  |  |  |  | U |
| 1,2,4-Trimethylbenzene                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| 1,3,5-Trimethylbenzene                            | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |
| Vinyl Chloride                                    | ND | 0.010  | mg/Kg wet |  |  |  |  |  |  | U |
| m+p Xylene                                        | ND | 0.0040 | mg/Kg wet |  |  |  |  |  |  | U |
| o-Xylene                                          | ND | 0.0020 | mg/Kg wet |  |  |  |  |  |  | U |

|                                  |        |  |           |        |  |      |        |  |  |  |
|----------------------------------|--------|--|-----------|--------|--|------|--------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0585 |  | mg/Kg wet | 0.0500 |  | 117  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.0512 |  | mg/Kg wet | 0.0500 |  | 102  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0482 |  | mg/Kg wet | 0.0500 |  | 96.5 | 70-130 |  |  |  |

**LCS (B302163-BS1)**

Prepared &amp; Analyzed: 03/01/22

|                               |        |        |           |        |  |      |        |  |  |   |
|-------------------------------|--------|--------|-----------|--------|--|------|--------|--|--|---|
| Acetone                       | 0.246  | 0.10   | mg/Kg wet | 0.200  |  | 123  | 70-160 |  |  | † |
| Acrylonitrile                 | 0.0233 | 0.0060 | mg/Kg wet | 0.0200 |  | 117  | 70-130 |  |  |   |
| tert-Amyl Methyl Ether (TAME) | 0.0216 | 0.0010 | mg/Kg wet | 0.0200 |  | 108  | 70-130 |  |  |   |
| Benzene                       | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 |  | 94.7 | 70-130 |  |  |   |
| Bromobenzene                  | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.0 | 70-130 |  |  |   |
| Bromochloromethane            | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 |  | 92.6 | 70-130 |  |  |   |
| Bromodichloromethane          | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 |  | 98.4 | 70-130 |  |  |   |
| Bromoform                     | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 |  | 94.5 | 70-130 |  |  |   |
| Bromomethane                  | 0.0209 | 0.010  | mg/Kg wet | 0.0200 |  | 104  | 40-130 |  |  | † |
| 2-Butanone (MEK)              | 0.200  | 0.040  | mg/Kg wet | 0.200  |  | 100  | 70-160 |  |  | † |
| tert-Butyl Alcohol (TBA)      | 0.206  | 0.10   | mg/Kg wet | 0.200  |  | 103  | 40-130 |  |  | † |
| n-Butylbenzene                | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 |  | 90.2 | 70-130 |  |  |   |
| sec-Butylbenzene              | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 |  | 93.0 | 70-130 |  |  |   |
| tert-Butylbenzene             | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 |  | 91.0 | 70-160 |  |  | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0212 | 0.0010 | mg/Kg wet | 0.0200 |  | 106  | 70-130 |  |  |   |
| Carbon Disulfide              | 0.176  | 0.010  | mg/Kg wet | 0.200  |  | 87.8 | 70-130 |  |  |   |
| Carbon Tetrachloride          | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 |  | 98.0 | 70-130 |  |  |   |
| Chlorobenzene                 | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 |  | 91.3 | 70-130 |  |  |   |
| Chlorodibromomethane          | 0.0192 | 0.0010 | mg/Kg wet | 0.0200 |  | 95.9 | 70-130 |  |  |   |
| Chloroethane                  | 0.0212 | 0.020  | mg/Kg wet | 0.0200 |  | 106  | 70-130 |  |  |   |
| Chloroform                    | 0.0200 | 0.0040 | mg/Kg wet | 0.0200 |  | 99.9 | 70-130 |  |  |   |

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

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes     |
|------------------------------------|--------|--------------------|-----------|-------------------------------|------------------|------|----------------|-----|--------------|-----------|
| <b>Batch B302163 - SW-846 5035</b> |        |                    |           |                               |                  |      |                |     |              |           |
| <b>LCS (B302163-BS1)</b>           |        |                    |           | Prepared & Analyzed: 03/01/22 |                  |      |                |     |              |           |
| Chloromethane                      | 0.0197 | 0.010              | mg/Kg wet | 0.0200                        |                  | 98.7 | 70-130         |     |              |           |
| 2-Chlorotoluene                    | 0.0184 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 92.1 | 70-130         |     |              |           |
| 4-Chlorotoluene                    | 0.0189 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 94.5 | 70-130         |     |              |           |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0171 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 85.5 | 70-130         |     |              |           |
| 1,2-Dibromoethane (EDB)            | 0.0196 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 97.8 | 70-130         |     |              |           |
| Dibromomethane                     | 0.0197 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 98.3 | 70-130         |     |              |           |
| 1,2-Dichlorobenzene                | 0.0186 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 92.9 | 70-130         |     |              |           |
| 1,3-Dichlorobenzene                | 0.0194 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 97.2 | 70-130         |     |              |           |
| 1,4-Dichlorobenzene                | 0.0172 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 85.9 | 70-130         |     |              |           |
| trans-1,4-Dichloro-2-butene        | 0.0215 | 0.0040             | mg/Kg wet | 0.0200                        |                  | 107  | 70-130         |     |              |           |
| Dichlorodifluoromethane (Freon 12) | 0.0133 | 0.020              | mg/Kg wet | 0.0200                        |                  | 66.3 | 40-160         |     |              | V-05, J † |
| 1,1-Dichloroethane                 | 0.0194 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 97.0 | 70-130         |     |              |           |
| 1,2-Dichloroethane                 | 0.0218 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 109  | 70-130         |     |              |           |
| 1,1-Dichloroethylene               | 0.0218 | 0.0040             | mg/Kg wet | 0.0200                        |                  | 109  | 70-130         |     |              |           |
| cis-1,2-Dichloroethylene           | 0.0198 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 99.2 | 70-130         |     |              |           |
| trans-1,2-Dichloroethylene         | 0.0191 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 95.3 | 70-130         |     |              |           |
| 1,2-Dichloropropane                | 0.0179 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 89.6 | 70-130         |     |              |           |
| 1,3-Dichloropropane                | 0.0207 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 103  | 70-130         |     |              |           |
| 2,2-Dichloropropane                | 0.0195 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 97.7 | 70-130         |     |              |           |
| 1,1-Dichloropropene                | 0.0180 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 89.8 | 70-130         |     |              |           |
| cis-1,3-Dichloropropene            | 0.0194 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 97.1 | 70-130         |     |              |           |
| trans-1,3-Dichloropropene          | 0.0204 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 102  | 70-130         |     |              |           |
| Diethyl Ether                      | 0.0213 | 0.020              | mg/Kg wet | 0.0200                        |                  | 107  | 70-130         |     |              |           |
| Diisopropyl Ether (DIPE)           | 0.0211 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 106  | 70-130         |     |              |           |
| 1,4-Dioxane                        | 0.222  | 0.10               | mg/Kg wet | 0.200                         |                  | 111  | 40-160         |     |              | †         |
| Ethylbenzene                       | 0.0182 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 91.2 | 70-130         |     |              |           |
| Hexachlorobutadiene                | 0.0193 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 96.3 | 70-160         |     |              |           |
| 2-Hexanone (MBK)                   | 0.191  | 0.020              | mg/Kg wet | 0.200                         |                  | 95.5 | 70-160         |     |              | †         |
| Isopropylbenzene (Cumene)          | 0.0164 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 82.0 | 70-130         |     |              |           |
| p-Isopropyltoluene (p-Cymene)      | 0.0175 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 87.6 | 70-130         |     |              |           |
| Methyl Acetate                     | 0.0200 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 99.8 | 70-130         |     |              |           |
| Methyl tert-Butyl Ether (MTBE)     | 0.0223 | 0.0040             | mg/Kg wet | 0.0200                        |                  | 111  | 70-130         |     |              |           |
| Methyl Cyclohexane                 | 0.0182 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 91.1 | 70-130         |     |              |           |
| Methylene Chloride                 | 0.0192 | 0.020              | mg/Kg wet | 0.0200                        |                  | 95.9 | 40-160         |     |              | J †       |
| 4-Methyl-2-pentanone (MIBK)        | 0.187  | 0.020              | mg/Kg wet | 0.200                         |                  | 93.3 | 70-160         |     |              | †         |
| Naphthalene                        | 0.0158 | 0.0040             | mg/Kg wet | 0.0200                        |                  | 79.0 | 40-130         |     |              | †         |
| n-Propylbenzene                    | 0.0189 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 94.3 | 70-130         |     |              |           |
| Styrene                            | 0.0184 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 91.8 | 70-130         |     |              |           |
| 1,1,1,2-Tetrachloroethane          | 0.0197 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 98.5 | 70-130         |     |              |           |
| 1,1,2,2-Tetrachloroethane          | 0.0176 | 0.0010             | mg/Kg wet | 0.0200                        |                  | 88.0 | 70-130         |     |              |           |
| Tetrachloroethylene                | 0.0204 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 102  | 70-130         |     |              |           |
| Tetrahydrofuran                    | 0.0234 | 0.010              | mg/Kg wet | 0.0200                        |                  | 117  | 70-130         |     |              |           |
| Toluene                            | 0.0179 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 89.6 | 70-130         |     |              |           |
| 1,2,3-Trichlorobenzene             | 0.0171 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 85.7 | 70-130         |     |              |           |
| 1,2,4-Trichlorobenzene             | 0.0166 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 82.8 | 70-130         |     |              |           |
| 1,3,5-Trichlorobenzene             | 0.0182 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 91.2 | 70-130         |     |              |           |
| 1,1,1-Trichloroethane              | 0.0204 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 102  | 70-130         |     |              |           |
| 1,1,2-Trichloroethane              | 0.0193 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 96.7 | 70-130         |     |              |           |
| Trichloroethylene                  | 0.0188 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 93.9 | 70-130         |     |              |           |
| Trichlorofluoromethane (Freon 11)  | 0.0209 | 0.010              | mg/Kg wet | 0.0200                        |                  | 104  | 70-130         |     |              |           |
| 1,2,3-Trichloropropane             | 0.0185 | 0.0020             | mg/Kg wet | 0.0200                        |                  | 92.7 | 70-130         |     |              |           |

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

| Analyte                                           | Result | Reporting Limit | Units     | Spike Level                   | Source Result | %REC | %REC Limits | RPD   | RPD Limit | Notes     |
|---------------------------------------------------|--------|-----------------|-----------|-------------------------------|---------------|------|-------------|-------|-----------|-----------|
| <b>Batch B302163 - SW-846 5035</b>                |        |                 |           |                               |               |      |             |       |           |           |
| <b>LCS (B302163-BS1)</b>                          |        |                 |           | Prepared & Analyzed: 03/01/22 |               |      |             |       |           |           |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0242 | 0.010           | mg/Kg wet | 0.0200                        |               | 121  | 70-130      |       |           | V-20      |
| 1,2,4-Trimethylbenzene                            | 0.0187 | 0.0020          | mg/Kg wet | 0.0200                        |               | 93.4 | 70-130      |       |           |           |
| 1,3,5-Trimethylbenzene                            | 0.0189 | 0.0020          | mg/Kg wet | 0.0200                        |               | 94.6 | 70-130      |       |           |           |
| Vinyl Chloride                                    | 0.0174 | 0.010           | mg/Kg wet | 0.0200                        |               | 86.8 | 40-130      |       |           | †         |
| m+p Xylene                                        | 0.0365 | 0.0040          | mg/Kg wet | 0.0400                        |               | 91.3 | 70-130      |       |           |           |
| o-Xylene                                          | 0.0185 | 0.0020          | mg/Kg wet | 0.0200                        |               | 92.4 | 70-130      |       |           |           |
| Surrogate: 1,2-Dichloroethane-d4                  | 0.0587 |                 | mg/Kg wet | 0.0500                        |               | 117  | 70-130      |       |           |           |
| Surrogate: Toluene-d8                             | 0.0514 |                 | mg/Kg wet | 0.0500                        |               | 103  | 70-130      |       |           |           |
| Surrogate: 4-Bromofluorobenzene                   | 0.0503 |                 | mg/Kg wet | 0.0500                        |               | 101  | 70-130      |       |           |           |
| <b>LCS Dup (B302163-BSD1)</b>                     |        |                 |           | Prepared & Analyzed: 03/01/22 |               |      |             |       |           |           |
| Acetone                                           | 0.251  | 0.10            | mg/Kg wet | 0.200                         |               | 125  | 70-160      | 1.85  | 25        | †         |
| Acrylonitrile                                     | 0.0223 | 0.0060          | mg/Kg wet | 0.0200                        |               | 111  | 70-130      | 4.56  | 25        |           |
| tert-Amyl Methyl Ether (TAME)                     | 0.0220 | 0.0010          | mg/Kg wet | 0.0200                        |               | 110  | 70-130      | 1.65  | 25        |           |
| Benzene                                           | 0.0189 | 0.0020          | mg/Kg wet | 0.0200                        |               | 94.3 | 70-130      | 0.423 | 25        |           |
| Bromobenzene                                      | 0.0183 | 0.0020          | mg/Kg wet | 0.0200                        |               | 91.7 | 70-130      | 2.99  | 25        |           |
| Bromochloromethane                                | 0.0180 | 0.0020          | mg/Kg wet | 0.0200                        |               | 89.8 | 70-130      | 3.07  | 25        |           |
| Bromodichloromethane                              | 0.0211 | 0.0020          | mg/Kg wet | 0.0200                        |               | 105  | 70-130      | 6.87  | 25        |           |
| Bromoform                                         | 0.0188 | 0.0020          | mg/Kg wet | 0.0200                        |               | 94.0 | 70-130      | 0.531 | 25        |           |
| Bromomethane                                      | 0.0216 | 0.010           | mg/Kg wet | 0.0200                        |               | 108  | 40-130      | 3.57  | 25        | †         |
| 2-Butanone (MEK)                                  | 0.211  | 0.040           | mg/Kg wet | 0.200                         |               | 105  | 70-160      | 4.92  | 25        | †         |
| tert-Butyl Alcohol (TBA)                          | 0.212  | 0.10            | mg/Kg wet | 0.200                         |               | 106  | 40-130      | 2.81  | 25        | †         |
| n-Butylbenzene                                    | 0.0167 | 0.0020          | mg/Kg wet | 0.0200                        |               | 83.7 | 70-130      | 7.48  | 25        |           |
| sec-Butylbenzene                                  | 0.0164 | 0.0020          | mg/Kg wet | 0.0200                        |               | 82.0 | 70-130      | 12.6  | 25        |           |
| tert-Butylbenzene                                 | 0.0181 | 0.0020          | mg/Kg wet | 0.0200                        |               | 90.4 | 70-160      | 0.662 | 25        | †         |
| tert-Butyl Ethyl Ether (TBEE)                     | 0.0205 | 0.0010          | mg/Kg wet | 0.0200                        |               | 103  | 70-130      | 3.35  | 25        |           |
| Carbon Disulfide                                  | 0.171  | 0.010           | mg/Kg wet | 0.200                         |               | 85.3 | 70-130      | 2.93  | 25        |           |
| Carbon Tetrachloride                              | 0.0195 | 0.0020          | mg/Kg wet | 0.0200                        |               | 97.3 | 70-130      | 0.717 | 25        |           |
| Chlorobenzene                                     | 0.0177 | 0.0020          | mg/Kg wet | 0.0200                        |               | 88.6 | 70-130      | 3.00  | 25        |           |
| Chlorodibromomethane                              | 0.0208 | 0.0010          | mg/Kg wet | 0.0200                        |               | 104  | 70-130      | 8.01  | 25        |           |
| Chloroethane                                      | 0.0208 | 0.020           | mg/Kg wet | 0.0200                        |               | 104  | 70-130      | 1.90  | 25        |           |
| Chloroform                                        | 0.0198 | 0.0040          | mg/Kg wet | 0.0200                        |               | 98.8 | 70-130      | 1.11  | 25        |           |
| Chloromethane                                     | 0.0191 | 0.010           | mg/Kg wet | 0.0200                        |               | 95.5 | 70-130      | 3.30  | 25        |           |
| 2-Chlorotoluene                                   | 0.0174 | 0.0020          | mg/Kg wet | 0.0200                        |               | 87.1 | 70-130      | 5.58  | 25        |           |
| 4-Chlorotoluene                                   | 0.0182 | 0.0020          | mg/Kg wet | 0.0200                        |               | 91.1 | 70-130      | 3.66  | 25        |           |
| 1,2-Dibromo-3-chloropropane (DBCP)                | 0.0199 | 0.0020          | mg/Kg wet | 0.0200                        |               | 99.7 | 70-130      | 15.3  | 25        |           |
| 1,2-Dibromoethane (EDB)                           | 0.0208 | 0.0010          | mg/Kg wet | 0.0200                        |               | 104  | 70-130      | 6.14  | 25        |           |
| Dibromomethane                                    | 0.0207 | 0.0020          | mg/Kg wet | 0.0200                        |               | 103  | 70-130      | 4.96  | 25        |           |
| 1,2-Dichlorobenzene                               | 0.0182 | 0.0020          | mg/Kg wet | 0.0200                        |               | 90.8 | 70-130      | 2.29  | 25        |           |
| 1,3-Dichlorobenzene                               | 0.0186 | 0.0020          | mg/Kg wet | 0.0200                        |               | 93.2 | 70-130      | 4.20  | 25        |           |
| 1,4-Dichlorobenzene                               | 0.0178 | 0.0020          | mg/Kg wet | 0.0200                        |               | 89.1 | 70-130      | 3.66  | 25        |           |
| trans-1,4-Dichloro-2-butene                       | 0.0217 | 0.0040          | mg/Kg wet | 0.0200                        |               | 108  | 70-130      | 1.02  | 25        |           |
| Dichlorodifluoromethane (Freon 12)                | 0.0134 | 0.020           | mg/Kg wet | 0.0200                        |               | 66.9 | 40-160      | 0.901 | 25        | V-05, J † |
| 1,1-Dichloroethane                                | 0.0193 | 0.0020          | mg/Kg wet | 0.0200                        |               | 96.7 | 70-130      | 0.310 | 25        |           |
| 1,2-Dichloroethane                                | 0.0212 | 0.0020          | mg/Kg wet | 0.0200                        |               | 106  | 70-130      | 2.79  | 25        |           |
| 1,1-Dichloroethylene                              | 0.0210 | 0.0040          | mg/Kg wet | 0.0200                        |               | 105  | 70-130      | 3.55  | 25        |           |
| cis-1,2-Dichloroethylene                          | 0.0201 | 0.0020          | mg/Kg wet | 0.0200                        |               | 100  | 70-130      | 1.20  | 25        |           |
| trans-1,2-Dichloroethylene                        | 0.0181 | 0.0020          | mg/Kg wet | 0.0200                        |               | 90.5 | 70-130      | 5.17  | 25        |           |
| 1,2-Dichloropropane                               | 0.0177 | 0.0020          | mg/Kg wet | 0.0200                        |               | 88.6 | 70-130      | 1.12  | 25        |           |
| 1,3-Dichloropropane                               | 0.0202 | 0.0010          | mg/Kg wet | 0.0200                        |               | 101  | 70-130      | 2.55  | 25        |           |
| 2,2-Dichloropropane                               | 0.0190 | 0.0020          | mg/Kg wet | 0.0200                        |               | 95.2 | 70-130      | 2.59  | 25        |           |
| 1,1-Dichloropropene                               | 0.0185 | 0.0020          | mg/Kg wet | 0.0200                        |               | 92.5 | 70-130      | 2.96  | 25        |           |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B302163 - SW-846 5035**
**LCS Dup (B302163-BSD1)**

Prepared &amp; Analyzed: 03/01/22

|                                                   |        |        |           |        |  |      |        |       |    |      |
|---------------------------------------------------|--------|--------|-----------|--------|--|------|--------|-------|----|------|
| cis-1,3-Dichloropropene                           | 0.0193 | 0.0010 | mg/Kg wet | 0.0200 |  | 96.6 | 70-130 | 0.516 | 25 |      |
| trans-1,3-Dichloropropene                         | 0.0213 | 0.0010 | mg/Kg wet | 0.0200 |  | 107  | 70-130 | 4.61  | 25 |      |
| Diethyl Ether                                     | 0.0228 | 0.020  | mg/Kg wet | 0.0200 |  | 114  | 70-130 | 6.80  | 25 |      |
| Diisopropyl Ether (DIPE)                          | 0.0206 | 0.0010 | mg/Kg wet | 0.0200 |  | 103  | 70-130 | 2.40  | 25 |      |
| 1,4-Dioxane                                       | 0.230  | 0.10   | mg/Kg wet | 0.200  |  | 115  | 40-160 | 3.43  | 50 | † ‡  |
| Ethylbenzene                                      | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 |  | 88.8 | 70-130 | 2.67  | 25 |      |
| Hexachlorobutadiene                               | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.0 | 70-160 | 7.88  | 25 |      |
| 2-Hexanone (MBK)                                  | 0.192  | 0.020  | mg/Kg wet | 0.200  |  | 95.8 | 70-160 | 0.314 | 25 | †    |
| Isopropylbenzene (Cumene)                         | 0.0166 | 0.0020 | mg/Kg wet | 0.0200 |  | 82.9 | 70-130 | 1.09  | 25 |      |
| p-Isopropyltoluene (p-Cymene)                     | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.2 | 70-130 | 1.81  | 25 |      |
| Methyl Acetate                                    | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 |  | 100  | 70-130 | 0.699 | 25 |      |
| Methyl tert-Butyl Ether (MTBE)                    | 0.0213 | 0.0040 | mg/Kg wet | 0.0200 |  | 106  | 70-130 | 4.69  | 25 |      |
| Methyl Cyclohexane                                | 0.0179 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.5 | 70-130 | 1.77  | 25 |      |
| Methylene Chloride                                | 0.0193 | 0.020  | mg/Kg wet | 0.0200 |  | 96.5 | 40-160 | 0.624 | 25 | J †  |
| 4-Methyl-2-pentanone (MIBK)                       | 0.188  | 0.020  | mg/Kg wet | 0.200  |  | 94.2 | 70-160 | 0.875 | 25 | †    |
| Naphthalene                                       | 0.0172 | 0.0040 | mg/Kg wet | 0.0200 |  | 86.0 | 40-130 | 8.48  | 25 | †    |
| n-Propylbenzene                                   | 0.0176 | 0.0020 | mg/Kg wet | 0.0200 |  | 88.0 | 70-130 | 6.91  | 25 |      |
| Styrene                                           | 0.0174 | 0.0020 | mg/Kg wet | 0.0200 |  | 87.0 | 70-130 | 5.37  | 25 |      |
| 1,1,1,2-Tetrachloroethane                         | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 |  | 94.7 | 70-130 | 3.93  | 25 |      |
| 1,1,2,2-Tetrachloroethane                         | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 |  | 88.4 | 70-130 | 0.454 | 25 |      |
| Tetrachloroethylene                               | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.9 | 70-130 | 12.7  | 25 |      |
| Tetrahydrofuran                                   | 0.0256 | 0.010  | mg/Kg wet | 0.0200 |  | 128  | 70-130 | 8.74  | 25 |      |
| Toluene                                           | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 |  | 90.6 | 70-130 | 1.11  | 25 |      |
| 1,2,3-Trichlorobenzene                            | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 |  | 87.5 | 70-130 | 2.08  | 25 |      |
| 1,2,4-Trichlorobenzene                            | 0.0159 | 0.0020 | mg/Kg wet | 0.0200 |  | 79.3 | 70-130 | 4.32  | 25 |      |
| 1,3,5-Trichlorobenzene                            | 0.0171 | 0.0020 | mg/Kg wet | 0.0200 |  | 85.4 | 70-130 | 6.57  | 25 |      |
| 1,1,1-Trichloroethane                             | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 |  | 103  | 70-130 | 0.781 | 25 |      |
| 1,1,2-Trichloroethane                             | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 |  | 90.4 | 70-130 | 6.73  | 25 |      |
| Trichloroethylene                                 | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 |  | 90.2 | 70-130 | 4.02  | 25 |      |
| Trichlorofluoromethane (Freon 11)                 | 0.0214 | 0.010  | mg/Kg wet | 0.0200 |  | 107  | 70-130 | 2.55  | 25 |      |
| 1,2,3-Trichloropropane                            | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 |  | 101  | 70-130 | 8.87  | 25 |      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0241 | 0.010  | mg/Kg wet | 0.0200 |  | 120  | 70-130 | 0.331 | 25 | V-20 |
| 1,2,4-Trimethylbenzene                            | 0.0179 | 0.0020 | mg/Kg wet | 0.0200 |  | 89.3 | 70-130 | 4.49  | 25 |      |
| 1,3,5-Trimethylbenzene                            | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 |  | 91.8 | 70-130 | 3.00  | 25 |      |
| Vinyl Chloride                                    | 0.0182 | 0.010  | mg/Kg wet | 0.0200 |  | 91.1 | 40-130 | 4.83  | 25 | †    |
| m+p Xylene                                        | 0.0358 | 0.0040 | mg/Kg wet | 0.0400 |  | 89.4 | 70-130 | 2.10  | 25 |      |
| o-Xylene                                          | 0.0174 | 0.0020 | mg/Kg wet | 0.0200 |  | 87.2 | 70-130 | 5.79  | 25 |      |
| Surrogate: 1,2-Dichloroethane-d4                  | 0.0569 |        | mg/Kg wet | 0.0500 |  | 114  | 70-130 |       |    |      |
| Surrogate: Toluene-d8                             | 0.0518 |        | mg/Kg wet | 0.0500 |  | 104  | 70-130 |       |    |      |
| Surrogate: 4-Bromofluorobenzene                   | 0.0494 |        | mg/Kg wet | 0.0500 |  | 98.7 | 70-130 |       |    |      |

**Batch B302171 - SW-846 5030B**
**Blank (B302171-BLK1)**

Prepared &amp; Analyzed: 03/01/22

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

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

| Analyte                             | Result | Reporting<br>Limit | Units | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes         |
|-------------------------------------|--------|--------------------|-------|-------------------------------|------------------|------|----------------|-----|--------------|---------------|
| <b>Batch B302171 - SW-846 5030B</b> |        |                    |       |                               |                  |      |                |     |              |               |
| <b>Blank (B302171-BLK1)</b>         |        |                    |       | Prepared & Analyzed: 03/01/22 |                  |      |                |     |              |               |
| Bromomethane                        | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | R-05, V-05, U |
| 2-Butanone (MEK)                    | ND     | 20                 | µg/L  |                               |                  |      |                |     |              | U             |
| tert-Butyl Alcohol (TBA)            | ND     | 20                 | µg/L  |                               |                  |      |                |     |              | U             |
| n-Butylbenzene                      | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| sec-Butylbenzene                    | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| tert-Butylbenzene                   | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| tert-Butyl Ethyl Ether (TBEE)       | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| Carbon Disulfide                    | ND     | 5.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Carbon Tetrachloride                | ND     | 5.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Chlorobenzene                       | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Chlorodibromomethane                | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| Chloroethane                        | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Chloroform                          | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Chloromethane                       | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 2-Chlorotoluene                     | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 4-Chlorotoluene                     | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,2-Dibromo-3-chloropropane (DBCP)  | ND     | 5.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,2-Dibromoethane (EDB)             | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| Dibromomethane                      | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,2-Dichlorobenzene                 | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,3-Dichlorobenzene                 | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,4-Dichlorobenzene                 | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| trans-1,4-Dichloro-2-butene         | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Dichlorodifluoromethane (Freon 12)  | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,1-Dichloroethane                  | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,2-Dichloroethane                  | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,1-Dichloroethylene                | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| cis-1,2-Dichloroethylene            | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| trans-1,2-Dichloroethylene          | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,2-Dichloropropane                 | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,3-Dichloropropane                 | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| 2,2-Dichloropropane                 | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,1-Dichloropropene                 | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| cis-1,3-Dichloropropene             | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| trans-1,3-Dichloropropene           | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| Diethyl Ether                       | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Diisopropyl Ether (DIPE)            | ND     | 0.50               | µg/L  |                               |                  |      |                |     |              | U             |
| 1,4-Dioxane                         | ND     | 50                 | µg/L  |                               |                  |      |                |     |              | U             |
| Ethylbenzene                        | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Hexachlorobutadiene                 | ND     | 0.60               | µg/L  |                               |                  |      |                |     |              | U             |
| 2-Hexanone (MBK)                    | ND     | 10                 | µg/L  |                               |                  |      |                |     |              | U             |
| Isopropylbenzene (Cumene)           | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| p-Isopropyltoluene (p-Cymene)       | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Methyl Acetate                      | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Methyl tert-Butyl Ether (MTBE)      | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Methyl Cyclohexane                  | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Methylene Chloride                  | ND     | 5.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 4-Methyl-2-pentanone (MIBK)         | ND     | 10                 | µg/L  |                               |                  |      |                |     |              | U             |
| Naphthalene                         | ND     | 2.0                | µg/L  |                               |                  |      |                |     |              | U             |
| n-Propylbenzene                     | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| Styrene                             | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |
| 1,1,1,2-Tetrachloroethane           | ND     | 1.0                | µg/L  |                               |                  |      |                |     |              | U             |

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

| Analyte                                           | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD        | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|------------|-----------|-------|
| <b>Batch B302171 - SW-846 5030B</b>               |        |                 |       |             |               |      |             |            |           |       |
| <b>Blank (B302171-BLK1)</b>                       |        |                 |       |             |               |      |             |            |           |       |
| Prepared & Analyzed: 03/01/22                     |        |                 |       |             |               |      |             |            |           |       |
| 1,1,2,2-Tetrachloroethane                         | ND     | 0.50            | µg/L  |             |               |      |             |            |           | U     |
| Tetrachloroethylene                               | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| Tetrahydrofuran                                   | ND     | 10              | µg/L  |             |               |      |             |            |           | U     |
| Toluene                                           | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,2,3-Trichlorobenzene                            | ND     | 5.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,2,4-Trichlorobenzene                            | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,3,5-Trichlorobenzene                            | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,1,1-Trichloroethane                             | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,1,2-Trichloroethane                             | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| Trichloroethylene                                 | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| Trichlorofluoromethane (Freon 11)                 | ND     | 2.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,2,3-Trichloropropane                            | ND     | 2.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,2,4-Trimethylbenzene                            | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| 1,3,5-Trimethylbenzene                            | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| Vinyl Chloride                                    | ND     | 2.0             | µg/L  |             |               |      |             |            |           | U     |
| m+p Xylene                                        | ND     | 2.0             | µg/L  |             |               |      |             |            |           | U     |
| o-Xylene                                          | ND     | 1.0             | µg/L  |             |               |      |             |            |           | U     |
| Surrogate: 1,2-Dichloroethane-d4                  | 23.7   |                 | µg/L  | 25.0        |               | 95.0 | 70-130      |            |           |       |
| Surrogate: Toluene-d8                             | 24.7   |                 | µg/L  | 25.0        |               | 98.7 | 70-130      |            |           |       |
| Surrogate: 4-Bromofluorobenzene                   | 24.6   |                 | µg/L  | 25.0        |               | 98.4 | 70-130      |            |           |       |
| <b>LCS (B302171-BS1)</b>                          |        |                 |       |             |               |      |             |            |           |       |
| Prepared & Analyzed: 03/01/22                     |        |                 |       |             |               |      |             |            |           |       |
| Acetone                                           | 93.8   | 50              | µg/L  | 100         |               | 93.8 | 70-160      |            |           | †     |
| Acrylonitrile                                     | 9.53   | 5.0             | µg/L  | 10.0        |               | 95.3 | 70-130      |            |           |       |
| tert-Amyl Methyl Ether (TAME)                     | 9.31   | 0.50            | µg/L  | 10.0        |               | 93.1 | 70-130      |            |           |       |
| Benzene                                           | 9.35   | 1.0             | µg/L  | 10.0        |               | 93.5 | 70-130      |            |           |       |
| Bromobenzene                                      | 10.7   | 1.0             | µg/L  | 10.0        |               | 107  | 70-130      |            |           |       |
| Bromochloromethane                                | 9.65   | 1.0             | µg/L  | 10.0        |               | 96.5 | 70-130      |            |           |       |
| Bromodichloromethane                              | 9.66   | 0.50            | µg/L  | 10.0        |               | 96.6 | 70-130      |            |           |       |
| Bromoform                                         | 11.4   | 1.0             | µg/L  | 10.0        |               | 114  | 70-130      |            |           |       |
| Bromomethane                                      | 8.81   | 2.0             | µg/L  | 10.0        |               | 88.1 | 40-160      | R-05, V-05 |           | †     |
| 2-Butanone (MEK)                                  | 91.9   | 20              | µg/L  | 100         |               | 91.9 | 40-160      |            |           | †     |
| tert-Butyl Alcohol (TBA)                          | 102    | 20              | µg/L  | 100         |               | 102  | 40-160      |            |           | †     |
| n-Butylbenzene                                    | 10.8   | 1.0             | µg/L  | 10.0        |               | 108  | 70-130      |            |           |       |
| sec-Butylbenzene                                  | 11.0   | 1.0             | µg/L  | 10.0        |               | 110  | 70-130      |            |           |       |
| tert-Butylbenzene                                 | 11.2   | 1.0             | µg/L  | 10.0        |               | 112  | 70-130      |            |           |       |
| tert-Butyl Ethyl Ether (TBEE)                     | 9.38   | 0.50            | µg/L  | 10.0        |               | 93.8 | 70-130      |            |           |       |
| Carbon Disulfide                                  | 107    | 5.0             | µg/L  | 100         |               | 107  | 70-130      |            |           |       |
| Carbon Tetrachloride                              | 10.0   | 5.0             | µg/L  | 10.0        |               | 100  | 70-130      |            |           |       |
| Chlorobenzene                                     | 11.1   | 1.0             | µg/L  | 10.0        |               | 111  | 70-130      |            |           |       |
| Chlorodibromomethane                              | 10.0   | 0.50            | µg/L  | 10.0        |               | 100  | 70-130      |            |           |       |
| Chloroethane                                      | 10.1   | 2.0             | µg/L  | 10.0        |               | 101  | 70-130      |            |           |       |
| Chloroform                                        | 9.76   | 2.0             | µg/L  | 10.0        |               | 97.6 | 70-130      |            |           |       |
| Chloromethane                                     | 9.59   | 2.0             | µg/L  | 10.0        |               | 95.9 | 40-160      |            |           | †     |
| 2-Chlorotoluene                                   | 10.4   | 1.0             | µg/L  | 10.0        |               | 104  | 70-130      |            |           |       |
| 4-Chlorotoluene                                   | 10.9   | 1.0             | µg/L  | 10.0        |               | 109  | 70-130      |            |           |       |
| 1,2-Dibromo-3-chloropropane (DBCP)                | 9.17   | 5.0             | µg/L  | 10.0        |               | 91.7 | 70-130      |            |           |       |
| 1,2-Dibromoethane (EDB)                           | 10.1   | 0.50            | µg/L  | 10.0        |               | 101  | 70-130      |            |           |       |
| Dibromomethane                                    | 9.60   | 1.0             | µg/L  | 10.0        |               | 96.0 | 70-130      |            |           |       |
| 1,2-Dichlorobenzene                               | 11.0   | 1.0             | µg/L  | 10.0        |               | 110  | 70-130      |            |           |       |
| 1,3-Dichlorobenzene                               | 11.0   | 1.0             | µg/L  | 10.0        |               | 110  | 70-130      |            |           |       |

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

| Analyte                                           | Result | Reporting Limit | Units | Spike Level                   | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-------|-------------------------------|---------------|------|-------------|-----|-----------|-------|
| <b>Batch B302171 - SW-846 5030B</b>               |        |                 |       |                               |               |      |             |     |           |       |
| <b>LCS (B302171-BS1)</b>                          |        |                 |       | Prepared & Analyzed: 03/01/22 |               |      |             |     |           |       |
| 1,4-Dichlorobenzene                               | 10.9   | 1.0             | µg/L  | 10.0                          |               | 109  | 70-130      |     |           |       |
| trans-1,4-Dichloro-2-butene                       | 8.81   | 2.0             | µg/L  | 10.0                          |               | 88.1 | 70-130      |     |           |       |
| Dichlorodifluoromethane (Freon 12)                | 9.44   | 2.0             | µg/L  | 10.0                          |               | 94.4 | 40-160      |     |           | †     |
| 1,1-Dichloroethane                                | 9.74   | 1.0             | µg/L  | 10.0                          |               | 97.4 | 70-130      |     |           |       |
| 1,2-Dichloroethane                                | 9.01   | 1.0             | µg/L  | 10.0                          |               | 90.1 | 70-130      |     |           |       |
| 1,1-Dichloroethylene                              | 10.2   | 1.0             | µg/L  | 10.0                          |               | 102  | 70-130      |     |           |       |
| cis-1,2-Dichloroethylene                          | 9.61   | 1.0             | µg/L  | 10.0                          |               | 96.1 | 70-130      |     |           |       |
| trans-1,2-Dichloroethylene                        | 9.64   | 1.0             | µg/L  | 10.0                          |               | 96.4 | 70-130      |     |           |       |
| 1,2-Dichloropropane                               | 10.0   | 1.0             | µg/L  | 10.0                          |               | 100  | 70-130      |     |           |       |
| 1,3-Dichloropropane                               | 9.83   | 0.50            | µg/L  | 10.0                          |               | 98.3 | 70-130      |     |           |       |
| 2,2-Dichloropropane                               | 9.91   | 1.0             | µg/L  | 10.0                          |               | 99.1 | 40-130      |     |           | †     |
| 1,1-Dichloropropene                               | 9.95   | 2.0             | µg/L  | 10.0                          |               | 99.5 | 70-130      |     |           |       |
| cis-1,3-Dichloropropene                           | 9.23   | 0.50            | µg/L  | 10.0                          |               | 92.3 | 70-130      |     |           |       |
| trans-1,3-Dichloropropene                         | 9.05   | 0.50            | µg/L  | 10.0                          |               | 90.5 | 70-130      |     |           |       |
| Diethyl Ether                                     | 9.78   | 2.0             | µg/L  | 10.0                          |               | 97.8 | 70-130      |     |           |       |
| Diisopropyl Ether (DIPE)                          | 9.42   | 0.50            | µg/L  | 10.0                          |               | 94.2 | 70-130      |     |           |       |
| 1,4-Dioxane                                       | 89.1   | 50              | µg/L  | 100                           |               | 89.1 | 40-130      |     |           | †     |
| Ethylbenzene                                      | 11.1   | 1.0             | µg/L  | 10.0                          |               | 111  | 70-130      |     |           |       |
| Hexachlorobutadiene                               | 11.6   | 0.60            | µg/L  | 10.0                          |               | 116  | 70-130      |     |           |       |
| 2-Hexanone (MBK)                                  | 94.2   | 10              | µg/L  | 100                           |               | 94.2 | 70-160      |     |           | †     |
| Isopropylbenzene (Cumene)                         | 11.2   | 1.0             | µg/L  | 10.0                          |               | 112  | 70-130      |     |           |       |
| p-Isopropyltoluene (p-Cymene)                     | 11.1   | 1.0             | µg/L  | 10.0                          |               | 111  | 70-130      |     |           |       |
| Methyl Acetate                                    | 9.13   | 1.0             | µg/L  | 10.0                          |               | 91.3 | 70-130      |     |           |       |
| Methyl tert-Butyl Ether (MTBE)                    | 9.53   | 1.0             | µg/L  | 10.0                          |               | 95.3 | 70-130      |     |           |       |
| Methyl Cyclohexane                                | 10.3   | 1.0             | µg/L  | 10.0                          |               | 103  | 70-130      |     |           |       |
| Methylene Chloride                                | 9.39   | 5.0             | µg/L  | 10.0                          |               | 93.9 | 70-130      |     |           |       |
| 4-Methyl-2-pentanone (MIBK)                       | 96.1   | 10              | µg/L  | 100                           |               | 96.1 | 70-160      |     |           | †     |
| Naphthalene                                       | 10.4   | 2.0             | µg/L  | 10.0                          |               | 104  | 40-130      |     |           | †     |
| n-Propylbenzene                                   | 11.2   | 1.0             | µg/L  | 10.0                          |               | 112  | 70-130      |     |           |       |
| Styrene                                           | 11.4   | 1.0             | µg/L  | 10.0                          |               | 114  | 70-130      |     |           |       |
| 1,1,1,2-Tetrachloroethane                         | 10.9   | 1.0             | µg/L  | 10.0                          |               | 109  | 70-130      |     |           |       |
| 1,1,2,2-Tetrachloroethane                         | 10.8   | 0.50            | µg/L  | 10.0                          |               | 108  | 70-130      |     |           |       |
| Tetrachloroethylene                               | 10.7   | 1.0             | µg/L  | 10.0                          |               | 107  | 70-130      |     |           |       |
| Tetrahydrofuran                                   | 9.00   | 10              | µg/L  | 10.0                          |               | 90.0 | 70-130      |     |           | J     |
| Toluene                                           | 10.2   | 1.0             | µg/L  | 10.0                          |               | 102  | 70-130      |     |           |       |
| 1,2,3-Trichlorobenzene                            | 10.8   | 5.0             | µg/L  | 10.0                          |               | 108  | 70-130      |     |           |       |
| 1,2,4-Trichlorobenzene                            | 10.8   | 1.0             | µg/L  | 10.0                          |               | 108  | 70-130      |     |           |       |
| 1,3,5-Trichlorobenzene                            | 11.1   | 1.0             | µg/L  | 10.0                          |               | 111  | 70-130      |     |           |       |
| 1,1,1-Trichloroethane                             | 10.2   | 1.0             | µg/L  | 10.0                          |               | 102  | 70-130      |     |           |       |
| 1,1,2-Trichloroethane                             | 10.2   | 1.0             | µg/L  | 10.0                          |               | 102  | 70-130      |     |           |       |
| Trichloroethylene                                 | 10.5   | 1.0             | µg/L  | 10.0                          |               | 105  | 70-130      |     |           |       |
| Trichlorofluoromethane (Freon 11)                 | 9.96   | 2.0             | µg/L  | 10.0                          |               | 99.6 | 70-130      |     |           |       |
| 1,2,3-Trichloropropane                            | 10.7   | 2.0             | µg/L  | 10.0                          |               | 107  | 70-130      |     |           |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.6   | 1.0             | µg/L  | 10.0                          |               | 106  | 70-130      |     |           |       |
| 1,2,4-Trimethylbenzene                            | 10.9   | 1.0             | µg/L  | 10.0                          |               | 109  | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                            | 11.5   | 1.0             | µg/L  | 10.0                          |               | 115  | 70-130      |     |           |       |
| Vinyl Chloride                                    | 8.53   | 2.0             | µg/L  | 10.0                          |               | 85.3 | 40-160      |     |           | †     |
| m+p Xylene                                        | 22.0   | 2.0             | µg/L  | 20.0                          |               | 110  | 70-130      |     |           |       |
| o-Xylene                                          | 11.0   | 1.0             | µg/L  | 10.0                          |               | 110  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4                  | 23.7   |                 | µg/L  | 25.0                          |               | 94.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                             | 24.5   |                 | µg/L  | 25.0                          |               | 98.1 | 70-130      |     |           |       |

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

| Analyte                             | Result | Reporting Limit | Units | Spike Level | Source Result                 | %REC | %REC Limits | RPD           | RPD Limit | Notes        |
|-------------------------------------|--------|-----------------|-------|-------------|-------------------------------|------|-------------|---------------|-----------|--------------|
| <b>Batch B302171 - SW-846 5030B</b> |        |                 |       |             |                               |      |             |               |           |              |
| <b>LCS (B302171-BS1)</b>            |        |                 |       |             | Prepared & Analyzed: 03/01/22 |      |             |               |           |              |
| Surrogate: 4-Bromofluorobenzene     | 25.0   |                 | µg/L  | 25.0        |                               | 100  | 70-130      |               |           |              |
| <b>LCS Dup (B302171-BSD1)</b>       |        |                 |       |             | Prepared & Analyzed: 03/01/22 |      |             |               |           |              |
| Acetone                             | 102    | 50              | µg/L  | 100         |                               | 102  | 70-160      | 8.13          | 25        | †            |
| Acrylonitrile                       | 9.92   | 5.0             | µg/L  | 10.0        |                               | 99.2 | 70-130      | 4.01          | 25        |              |
| tert-Amyl Methyl Ether (TAME)       | 9.69   | 0.50            | µg/L  | 10.0        |                               | 96.9 | 70-130      | 4.00          | 25        |              |
| Benzene                             | 9.27   | 1.0             | µg/L  | 10.0        |                               | 92.7 | 70-130      | 0.859         | 25        |              |
| Bromobenzene                        | 10.8   | 1.0             | µg/L  | 10.0        |                               | 108  | 70-130      | 0.743         | 25        |              |
| Bromochloromethane                  | 9.92   | 1.0             | µg/L  | 10.0        |                               | 99.2 | 70-130      | 2.76          | 25        |              |
| Bromodichloromethane                | 9.69   | 0.50            | µg/L  | 10.0        |                               | 96.9 | 70-130      | 0.310         | 25        |              |
| Bromoform                           | 11.9   | 1.0             | µg/L  | 10.0        |                               | 119  | 70-130      | 3.61          | 25        |              |
| Bromomethane                        | 11.7   | 2.0             | µg/L  | 10.0        |                               | 117  | 40-160      | <b>27.8</b> * | 25        | R-05, V-05 † |
| 2-Butanone (MEK)                    | 99.2   | 20              | µg/L  | 100         |                               | 99.2 | 40-160      | 7.67          | 25        | †            |
| tert-Butyl Alcohol (TBA)            | 109    | 20              | µg/L  | 100         |                               | 109  | 40-160      | 6.84          | 25        | †            |
| n-Butylbenzene                      | 10.6   | 1.0             | µg/L  | 10.0        |                               | 106  | 70-130      | 1.86          | 25        |              |
| sec-Butylbenzene                    | 10.8   | 1.0             | µg/L  | 10.0        |                               | 108  | 70-130      | 2.30          | 25        |              |
| tert-Butylbenzene                   | 10.9   | 1.0             | µg/L  | 10.0        |                               | 109  | 70-130      | 2.89          | 25        |              |
| tert-Butyl Ethyl Ether (TBEE)       | 9.75   | 0.50            | µg/L  | 10.0        |                               | 97.5 | 70-130      | 3.87          | 25        |              |
| Carbon Disulfide                    | 104    | 5.0             | µg/L  | 100         |                               | 104  | 70-130      | 2.28          | 25        |              |
| Carbon Tetrachloride                | 9.85   | 5.0             | µg/L  | 10.0        |                               | 98.5 | 70-130      | 1.51          | 25        |              |
| Chlorobenzene                       | 11.0   | 1.0             | µg/L  | 10.0        |                               | 110  | 70-130      | 0.543         | 25        |              |
| Chlorodibromomethane                | 9.93   | 0.50            | µg/L  | 10.0        |                               | 99.3 | 70-130      | 0.702         | 25        |              |
| Chloroethane                        | 10.3   | 2.0             | µg/L  | 10.0        |                               | 103  | 70-130      | 1.57          | 25        |              |
| Chloroform                          | 9.55   | 2.0             | µg/L  | 10.0        |                               | 95.5 | 70-130      | 2.18          | 25        |              |
| Chloromethane                       | 10.1   | 2.0             | µg/L  | 10.0        |                               | 101  | 40-160      | 4.78          | 25        | †            |
| 2-Chlorotoluene                     | 10.7   | 1.0             | µg/L  | 10.0        |                               | 107  | 70-130      | 3.04          | 25        |              |
| 4-Chlorotoluene                     | 10.8   | 1.0             | µg/L  | 10.0        |                               | 108  | 70-130      | 0.830         | 25        |              |
| 1,2-Dibromo-3-chloropropane (DBCP)  | 10.5   | 5.0             | µg/L  | 10.0        |                               | 105  | 70-130      | 13.1          | 25        |              |
| 1,2-Dibromoethane (EDB)             | 10.5   | 0.50            | µg/L  | 10.0        |                               | 105  | 70-130      | 3.59          | 25        |              |
| Dibromomethane                      | 9.95   | 1.0             | µg/L  | 10.0        |                               | 99.5 | 70-130      | 3.58          | 25        |              |
| 1,2-Dichlorobenzene                 | 10.8   | 1.0             | µg/L  | 10.0        |                               | 108  | 70-130      | 1.47          | 25        |              |
| 1,3-Dichlorobenzene                 | 11.0   | 1.0             | µg/L  | 10.0        |                               | 110  | 70-130      | 0.182         | 25        |              |
| 1,4-Dichlorobenzene                 | 10.8   | 1.0             | µg/L  | 10.0        |                               | 108  | 70-130      | 1.29          | 25        |              |
| trans-1,4-Dichloro-2-butene         | 9.69   | 2.0             | µg/L  | 10.0        |                               | 96.9 | 70-130      | 9.51          | 25        |              |
| Dichlorodifluoromethane (Freon 12)  | 9.05   | 2.0             | µg/L  | 10.0        |                               | 90.5 | 40-160      | 4.22          | 25        | †            |
| 1,1-Dichloroethane                  | 9.55   | 1.0             | µg/L  | 10.0        |                               | 95.5 | 70-130      | 1.97          | 25        |              |
| 1,2-Dichloroethane                  | 9.09   | 1.0             | µg/L  | 10.0        |                               | 90.9 | 70-130      | 0.884         | 25        |              |
| 1,1-Dichloroethylene                | 9.79   | 1.0             | µg/L  | 10.0        |                               | 97.9 | 70-130      | 3.71          | 25        |              |
| cis-1,2-Dichloroethylene            | 9.54   | 1.0             | µg/L  | 10.0        |                               | 95.4 | 70-130      | 0.731         | 25        |              |
| trans-1,2-Dichloroethylene          | 9.36   | 1.0             | µg/L  | 10.0        |                               | 93.6 | 70-130      | 2.95          | 25        |              |
| 1,2-Dichloropropane                 | 9.77   | 1.0             | µg/L  | 10.0        |                               | 97.7 | 70-130      | 2.53          | 25        |              |
| 1,3-Dichloropropane                 | 10.2   | 0.50            | µg/L  | 10.0        |                               | 102  | 70-130      | 3.40          | 25        |              |
| 2,2-Dichloropropane                 | 9.80   | 1.0             | µg/L  | 10.0        |                               | 98.0 | 40-130      | 1.12          | 25        | †            |
| 1,1-Dichloropropene                 | 9.84   | 2.0             | µg/L  | 10.0        |                               | 98.4 | 70-130      | 1.11          | 25        |              |
| cis-1,3-Dichloropropene             | 9.34   | 0.50            | µg/L  | 10.0        |                               | 93.4 | 70-130      | 1.18          | 25        |              |
| trans-1,3-Dichloropropene           | 9.17   | 0.50            | µg/L  | 10.0        |                               | 91.7 | 70-130      | 1.32          | 25        |              |
| Diethyl Ether                       | 9.87   | 2.0             | µg/L  | 10.0        |                               | 98.7 | 70-130      | 0.916         | 25        |              |
| Diisopropyl Ether (DIPE)            | 9.42   | 0.50            | µg/L  | 10.0        |                               | 94.2 | 70-130      | 0.00          | 25        |              |
| 1,4-Dioxane                         | 97.2   | 50              | µg/L  | 100         |                               | 97.2 | 40-130      | 8.70          | 50        | † ‡          |
| Ethylbenzene                        | 11.0   | 1.0             | µg/L  | 10.0        |                               | 110  | 70-130      | 0.993         | 25        |              |
| Hexachlorobutadiene                 | 11.2   | 0.60            | µg/L  | 10.0        |                               | 112  | 70-130      | 3.76          | 25        |              |
| 2-Hexanone (MBK)                    | 105    | 10              | µg/L  | 100         |                               | 105  | 70-160      | 10.5          | 25        | †            |

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

| Analyte                                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result              | %REC | %REC<br>Limits | RPD    | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|-------|----------------|-------------------------------|------|----------------|--------|--------------|-------|
| <b>Batch B302171 - SW-846 5030B</b>               |        |                    |       |                |                               |      |                |        |              |       |
| <b>LCS Dup (B302171-BSD1)</b>                     |        |                    |       |                | Prepared & Analyzed: 03/01/22 |      |                |        |              |       |
| Isopropylbenzene (Cumene)                         | 11.1   | 1.0                | µg/L  | 10.0           |                               | 111  | 70-130         | 0.449  | 25           |       |
| p-Isopropyltoluene (p-Cymene)                     | 11.0   | 1.0                | µg/L  | 10.0           |                               | 110  | 70-130         | 0.995  | 25           |       |
| Methyl Acetate                                    | 9.87   | 1.0                | µg/L  | 10.0           |                               | 98.7 | 70-130         | 7.79   | 25           |       |
| Methyl tert-Butyl Ether (MTBE)                    | 9.75   | 1.0                | µg/L  | 10.0           |                               | 97.5 | 70-130         | 2.28   | 25           |       |
| Methyl Cyclohexane                                | 10.3   | 1.0                | µg/L  | 10.0           |                               | 103  | 70-130         | 0.0970 | 25           |       |
| Methylene Chloride                                | 9.71   | 5.0                | µg/L  | 10.0           |                               | 97.1 | 70-130         | 3.35   | 25           |       |
| 4-Methyl-2-pentanone (MIBK)                       | 102    | 10                 | µg/L  | 100            |                               | 102  | 70-160         | 5.79   | 25           | †     |
| Naphthalene                                       | 11.5   | 2.0                | µg/L  | 10.0           |                               | 115  | 40-130         | 10.2   | 25           | †     |
| n-Propylbenzene                                   | 10.8   | 1.0                | µg/L  | 10.0           |                               | 108  | 70-130         | 3.45   | 25           |       |
| Styrene                                           | 11.4   | 1.0                | µg/L  | 10.0           |                               | 114  | 70-130         | 0.176  | 25           |       |
| 1,1,1,2-Tetrachloroethane                         | 11.0   | 1.0                | µg/L  | 10.0           |                               | 110  | 70-130         | 0.825  | 25           |       |
| 1,1,2,2-Tetrachloroethane                         | 11.3   | 0.50               | µg/L  | 10.0           |                               | 113  | 70-130         | 4.71   | 25           |       |
| Tetrachloroethylene                               | 10.5   | 1.0                | µg/L  | 10.0           |                               | 105  | 70-130         | 2.55   | 25           |       |
| Tetrahydrofuran                                   | 9.45   | 10                 | µg/L  | 10.0           |                               | 94.5 | 70-130         | 4.88   | 25           | J     |
| Toluene                                           | 9.99   | 1.0                | µg/L  | 10.0           |                               | 99.9 | 70-130         | 1.69   | 25           |       |
| 1,2,3-Trichlorobenzene                            | 11.7   | 5.0                | µg/L  | 10.0           |                               | 117  | 70-130         | 7.84   | 25           |       |
| 1,2,4-Trichlorobenzene                            | 11.1   | 1.0                | µg/L  | 10.0           |                               | 111  | 70-130         | 2.01   | 25           |       |
| 1,3,5-Trichlorobenzene                            | 11.0   | 1.0                | µg/L  | 10.0           |                               | 110  | 70-130         | 0.813  | 25           |       |
| 1,1,1-Trichloroethane                             | 10.3   | 1.0                | µg/L  | 10.0           |                               | 103  | 70-130         | 0.195  | 25           |       |
| 1,1,2-Trichloroethane                             | 10.5   | 1.0                | µg/L  | 10.0           |                               | 105  | 70-130         | 3.18   | 25           |       |
| Trichloroethylene                                 | 10.4   | 1.0                | µg/L  | 10.0           |                               | 104  | 70-130         | 1.53   | 25           |       |
| Trichlorofluoromethane (Freon 11)                 | 9.73   | 2.0                | µg/L  | 10.0           |                               | 97.3 | 70-130         | 2.34   | 25           |       |
| 1,2,3-Trichloropropane                            | 11.2   | 2.0                | µg/L  | 10.0           |                               | 112  | 70-130         | 4.47   | 25           |       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.3   | 1.0                | µg/L  | 10.0           |                               | 103  | 70-130         | 2.01   | 25           |       |
| 1,2,4-Trimethylbenzene                            | 10.8   | 1.0                | µg/L  | 10.0           |                               | 108  | 70-130         | 0.829  | 25           |       |
| 1,3,5-Trimethylbenzene                            | 11.4   | 1.0                | µg/L  | 10.0           |                               | 114  | 70-130         | 1.13   | 25           |       |
| Vinyl Chloride                                    | 8.37   | 2.0                | µg/L  | 10.0           |                               | 83.7 | 40-160         | 1.89   | 25           | †     |
| m+p Xylene                                        | 21.7   | 2.0                | µg/L  | 20.0           |                               | 109  | 70-130         | 1.10   | 25           |       |
| o-Xylene                                          | 10.9   | 1.0                | µg/L  | 10.0           |                               | 109  | 70-130         | 0.548  | 25           |       |
| Surrogate: 1,2-Dichloroethane-d4                  | 23.6   |                    | µg/L  | 25.0           |                               | 94.6 | 70-130         |        |              |       |
| Surrogate: Toluene-d8                             | 24.2   |                    | µg/L  | 25.0           |                               | 97.0 | 70-130         |        |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 24.8   |                    | µg/L  | 25.0           |                               | 99.4 | 70-130         |        |              |       |

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**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte                               | Result | Reporting Limit | Units     | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>Batch B302155 - SW-846 3546</b>    |        |                 |           |             |               |      |             |     |           |       |
| <b>Blank (B302155-BLK1)</b>           |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 03/01/22 Analyzed: 03/02/22 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Acenaphthylene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Anthracene                            | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Benzo(a)anthracene                    | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Benzo(a)pyrene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Benzo(b)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Benzo(g,h,i)perylene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Benzo(k)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Chrysene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Dibenz(a,h)anthracene                 | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Fluoranthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Fluorene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Indeno(1,2,3-cd)pyrene                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| 2-Methylnaphthalene                   | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Naphthalene                           | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Phenanthrene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Pyrene                                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           | U     |
| Surrogate: Nitrobenzene-d5            | 2.39   |                 | mg/Kg wet | 3.33        |               | 71.7 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.62   |                 | mg/Kg wet | 3.33        |               | 78.7 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.75   |                 | mg/Kg wet | 3.33        |               | 82.6 | 30-130      |     |           |       |
| <b>LCS (B302155-BS1)</b>              |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 03/01/22 Analyzed: 03/02/22 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | 1.14   | 0.17            | mg/Kg wet | 1.67        |               | 68.3 | 40-140      |     |           |       |
| Acenaphthylene                        | 1.24   | 0.17            | mg/Kg wet | 1.67        |               | 74.5 | 40-140      |     |           |       |
| Anthracene                            | 1.21   | 0.17            | mg/Kg wet | 1.67        |               | 72.9 | 40-140      |     |           |       |
| Benzo(a)anthracene                    | 1.23   | 0.17            | mg/Kg wet | 1.67        |               | 73.9 | 40-140      |     |           |       |
| Benzo(a)pyrene                        | 1.37   | 0.17            | mg/Kg wet | 1.67        |               | 82.3 | 40-140      |     |           |       |
| Benzo(b)fluoranthene                  | 1.25   | 0.17            | mg/Kg wet | 1.67        |               | 75.3 | 40-140      |     |           |       |
| Benzo(g,h,i)perylene                  | 1.22   | 0.17            | mg/Kg wet | 1.67        |               | 73.0 | 40-140      |     |           |       |
| Benzo(k)fluoranthene                  | 1.27   | 0.17            | mg/Kg wet | 1.67        |               | 76.1 | 40-140      |     |           |       |
| Chrysene                              | 1.16   | 0.17            | mg/Kg wet | 1.67        |               | 69.4 | 40-140      |     |           |       |
| Dibenz(a,h)anthracene                 | 1.33   | 0.17            | mg/Kg wet | 1.67        |               | 80.0 | 40-140      |     |           |       |
| Fluoranthene                          | 1.33   | 0.17            | mg/Kg wet | 1.67        |               | 80.0 | 40-140      |     |           |       |
| Fluorene                              | 1.28   | 0.17            | mg/Kg wet | 1.67        |               | 77.1 | 40-140      |     |           |       |
| Indeno(1,2,3-cd)pyrene                | 1.35   | 0.17            | mg/Kg wet | 1.67        |               | 81.2 | 40-140      |     |           |       |
| 2-Methylnaphthalene                   | 1.33   | 0.17            | mg/Kg wet | 1.67        |               | 79.9 | 40-140      |     |           |       |
| Naphthalene                           | 1.08   | 0.17            | mg/Kg wet | 1.67        |               | 64.9 | 40-140      |     |           |       |
| Phenanthrene                          | 1.21   | 0.17            | mg/Kg wet | 1.67        |               | 72.8 | 40-140      |     |           |       |
| Pyrene                                | 1.10   | 0.17            | mg/Kg wet | 1.67        |               | 66.1 | 40-140      |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.11   |                 | mg/Kg wet | 3.33        |               | 63.4 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.45   |                 | mg/Kg wet | 3.33        |               | 73.5 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.58   |                 | mg/Kg wet | 3.33        |               | 77.5 | 30-130      |     |           |       |

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**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B302155 - SW-846 3546**
**LCS Dup (B302155-BSD1)**

Prepared: 03/01/22 Analyzed: 03/02/22

|                             |      |      |           |      |  |      |        |       |    |  |
|-----------------------------|------|------|-----------|------|--|------|--------|-------|----|--|
| Acenaphthene                | 1.10 | 0.17 | mg/Kg wet | 1.67 |  | 66.2 | 40-140 | 3.21  | 30 |  |
| Acenaphthylene              | 1.19 | 0.17 | mg/Kg wet | 1.67 |  | 71.3 | 40-140 | 4.31  | 30 |  |
| Anthracene                  | 1.19 | 0.17 | mg/Kg wet | 1.67 |  | 71.4 | 40-140 | 2.11  | 30 |  |
| Benzo(a)anthracene          | 1.19 | 0.17 | mg/Kg wet | 1.67 |  | 71.1 | 40-140 | 3.86  | 30 |  |
| Benzo(a)pyrene              | 1.29 | 0.17 | mg/Kg wet | 1.67 |  | 77.3 | 40-140 | 6.31  | 30 |  |
| Benzo(b)fluoranthene        | 1.19 | 0.17 | mg/Kg wet | 1.67 |  | 71.6 | 40-140 | 4.96  | 30 |  |
| Benzo(g,h,i)perylene        | 1.15 | 0.17 | mg/Kg wet | 1.67 |  | 68.8 | 40-140 | 5.92  | 30 |  |
| Benzo(k)fluoranthene        | 1.20 | 0.17 | mg/Kg wet | 1.67 |  | 72.0 | 40-140 | 5.48  | 30 |  |
| Chrysene                    | 1.12 | 0.17 | mg/Kg wet | 1.67 |  | 67.5 | 40-140 | 2.78  | 30 |  |
| Dibenz(a,h)anthracene       | 1.27 | 0.17 | mg/Kg wet | 1.67 |  | 76.3 | 40-140 | 4.81  | 30 |  |
| Fluoranthene                | 1.35 | 0.17 | mg/Kg wet | 1.67 |  | 81.1 | 40-140 | 1.32  | 30 |  |
| Fluorene                    | 1.27 | 0.17 | mg/Kg wet | 1.67 |  | 76.4 | 40-140 | 0.886 | 30 |  |
| Indeno(1,2,3-cd)pyrene      | 1.28 | 0.17 | mg/Kg wet | 1.67 |  | 76.9 | 40-140 | 5.41  | 30 |  |
| 2-Methylnaphthalene         | 1.29 | 0.17 | mg/Kg wet | 1.67 |  | 77.3 | 40-140 | 3.28  | 30 |  |
| Naphthalene                 | 1.05 | 0.17 | mg/Kg wet | 1.67 |  | 62.8 | 40-140 | 3.38  | 30 |  |
| Phenanthrene                | 1.15 | 0.17 | mg/Kg wet | 1.67 |  | 68.9 | 40-140 | 5.56  | 30 |  |
| Pyrene                      | 1.09 | 0.17 | mg/Kg wet | 1.67 |  | 65.1 | 40-140 | 1.49  | 30 |  |
| Surrogate: Nitrobenzene-d5  | 2.09 |      | mg/Kg wet | 3.33 |  | 62.7 | 30-130 |       |    |  |
| Surrogate: 2-Fluorobiphenyl | 2.28 |      | mg/Kg wet | 3.33 |  | 68.5 | 30-130 |       |    |  |
| Surrogate: p-Terphenyl-d14  | 2.46 |      | mg/Kg wet | 3.33 |  | 73.8 | 30-130 |       |    |  |

**Batch B302397 - SW-846 3510C**
**Blank (B302397-BLK1)**

Prepared: 03/01/22 Analyzed: 03/03/22

|                              |       |       |      |     |  |      |          |  |  |         |
|------------------------------|-------|-------|------|-----|--|------|----------|--|--|---------|
| Acenaphthene (SIM)           | ND    | 0.30  | µg/L |     |  |      |          |  |  | U       |
| Acenaphthylene (SIM)         | 0.020 | 0.20  | µg/L |     |  |      |          |  |  | B-05, J |
| Anthracene (SIM)             | ND    | 0.20  | µg/L |     |  |      |          |  |  | U       |
| Benzo(a)anthracene (SIM)     | ND    | 0.050 | µg/L |     |  |      |          |  |  | U       |
| Benzo(a)pyrene (SIM)         | ND    | 0.10  | µg/L |     |  |      |          |  |  | U       |
| Benzo(b)fluoranthene (SIM)   | ND    | 0.050 | µg/L |     |  |      |          |  |  | U       |
| Benzo(g,h,i)perylene (SIM)   | ND    | 0.50  | µg/L |     |  |      |          |  |  | U       |
| Benzo(k)fluoranthene (SIM)   | ND    | 0.20  | µg/L |     |  |      |          |  |  | U       |
| Chrysene (SIM)               | ND    | 0.20  | µg/L |     |  |      |          |  |  | U       |
| Dibenz(a,h)anthracene (SIM)  | ND    | 0.10  | µg/L |     |  |      |          |  |  | U       |
| Fluoranthene (SIM)           | ND    | 0.50  | µg/L |     |  |      |          |  |  | U       |
| Fluorene (SIM)               | ND    | 1.0   | µg/L |     |  |      |          |  |  | U       |
| Indeno(1,2,3-cd)pyrene (SIM) | ND    | 0.10  | µg/L |     |  |      |          |  |  | U       |
| 2-Methylnaphthalene (SIM)    | 0.082 | 1.0   | µg/L |     |  |      |          |  |  | B, J    |
| Naphthalene (SIM)            | 0.11  | 1.0   | µg/L |     |  |      |          |  |  | B, J    |
| Phenanthrene (SIM)           | ND    | 0.050 | µg/L |     |  |      |          |  |  | U       |
| Pyrene (SIM)                 | ND    | 1.0   | µg/L |     |  |      |          |  |  | U       |
| Surrogate: Nitrobenzene-d5   | 92.1  |       | µg/L | 100 |  | 92.1 | 30-130   |  |  |         |
| Surrogate: 2-Fluorobiphenyl  | 86.6  |       | µg/L | 100 |  | 86.6 | 30-130   |  |  |         |
| Surrogate: p-Terphenyl-d14   | 141   |       | µg/L | 100 |  | 141  | * 30-130 |  |  | S-07    |

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**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B302397 - SW-846 3510C**
**LCS (B302397-BS1)**

Prepared: 03/01/22 Analyzed: 03/03/22

|                              |      |     |      |      |  |      |        |  |  |  |
|------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Acenaphthene (SIM)           | 38.9 | 6.0 | µg/L | 50.0 |  | 77.9 | 40-140 |  |  |  |
| Acenaphthylene (SIM)         | 41.2 | 4.0 | µg/L | 50.0 |  | 82.4 | 40-140 |  |  |  |
| Anthracene (SIM)             | 42.9 | 4.0 | µg/L | 50.0 |  | 85.7 | 40-140 |  |  |  |
| Benzo(a)anthracene (SIM)     | 43.8 | 1.0 | µg/L | 50.0 |  | 87.5 | 40-140 |  |  |  |
| Benzo(a)pyrene (SIM)         | 43.6 | 2.0 | µg/L | 50.0 |  | 87.3 | 40-140 |  |  |  |
| Benzo(b)fluoranthene (SIM)   | 43.2 | 1.0 | µg/L | 50.0 |  | 86.5 | 40-140 |  |  |  |
| Benzo(g,h,i)perylene (SIM)   | 40.5 | 10  | µg/L | 50.0 |  | 81.0 | 40-140 |  |  |  |
| Benzo(k)fluoranthene (SIM)   | 45.8 | 4.0 | µg/L | 50.0 |  | 91.6 | 40-140 |  |  |  |
| Chrysene (SIM)               | 39.0 | 4.0 | µg/L | 50.0 |  | 78.0 | 40-140 |  |  |  |
| Dibenz(a,h)anthracene (SIM)  | 42.0 | 2.0 | µg/L | 50.0 |  | 84.0 | 40-140 |  |  |  |
| Fluoranthene (SIM)           | 42.7 | 10  | µg/L | 50.0 |  | 85.4 | 40-140 |  |  |  |
| Fluorene (SIM)               | 42.8 | 20  | µg/L | 50.0 |  | 85.5 | 40-140 |  |  |  |
| Indeno(1,2,3-cd)pyrene (SIM) | 40.9 | 2.0 | µg/L | 50.0 |  | 81.8 | 40-140 |  |  |  |
| 2-Methylnaphthalene (SIM)    | 40.0 | 20  | µg/L | 50.0 |  | 80.0 | 40-140 |  |  |  |
| Naphthalene (SIM)            | 33.8 | 20  | µg/L | 50.0 |  | 67.6 | 40-140 |  |  |  |
| Phenanthrene (SIM)           | 40.0 | 1.0 | µg/L | 50.0 |  | 80.0 | 40-140 |  |  |  |
| Pyrene (SIM)                 | 36.0 | 20  | µg/L | 50.0 |  | 72.0 | 40-140 |  |  |  |
| Surrogate: Nitrobenzene-d5   | 80.3 |     | µg/L | 100  |  | 80.3 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl  | 81.3 |     | µg/L | 100  |  | 81.3 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14   | 94.4 |     | µg/L | 100  |  | 94.4 | 30-130 |  |  |  |

**LCS Dup (B302397-BS1)**

Prepared: 03/01/22 Analyzed: 03/03/22

|                              |      |     |      |      |  |      |        |       |    |  |
|------------------------------|------|-----|------|------|--|------|--------|-------|----|--|
| Acenaphthene (SIM)           | 39.4 | 6.0 | µg/L | 50.0 |  | 78.8 | 40-140 | 1.23  | 20 |  |
| Acenaphthylene (SIM)         | 41.7 | 4.0 | µg/L | 50.0 |  | 83.4 | 40-140 | 1.16  | 20 |  |
| Anthracene (SIM)             | 44.2 | 4.0 | µg/L | 50.0 |  | 88.4 | 40-140 | 3.03  | 20 |  |
| Benzo(a)anthracene (SIM)     | 44.6 | 1.0 | µg/L | 50.0 |  | 89.3 | 40-140 | 1.99  | 20 |  |
| Benzo(a)pyrene (SIM)         | 45.0 | 2.0 | µg/L | 50.0 |  | 89.9 | 40-140 | 2.98  | 20 |  |
| Benzo(b)fluoranthene (SIM)   | 46.1 | 1.0 | µg/L | 50.0 |  | 92.2 | 40-140 | 6.45  | 20 |  |
| Benzo(g,h,i)perylene (SIM)   | 41.9 | 10  | µg/L | 50.0 |  | 83.8 | 40-140 | 3.35  | 20 |  |
| Benzo(k)fluoranthene (SIM)   | 49.1 | 4.0 | µg/L | 50.0 |  | 98.2 | 40-140 | 7.00  | 20 |  |
| Chrysene (SIM)               | 40.1 | 4.0 | µg/L | 50.0 |  | 80.2 | 40-140 | 2.78  | 20 |  |
| Dibenz(a,h)anthracene (SIM)  | 42.9 | 2.0 | µg/L | 50.0 |  | 85.8 | 40-140 | 2.03  | 20 |  |
| Fluoranthene (SIM)           | 40.8 | 10  | µg/L | 50.0 |  | 81.6 | 40-140 | 4.50  | 20 |  |
| Fluorene (SIM)               | 42.5 | 20  | µg/L | 50.0 |  | 85.0 | 40-140 | 0.563 | 20 |  |
| Indeno(1,2,3-cd)pyrene (SIM) | 41.4 | 2.0 | µg/L | 50.0 |  | 82.8 | 40-140 | 1.22  | 20 |  |
| 2-Methylnaphthalene (SIM)    | 38.4 | 20  | µg/L | 50.0 |  | 76.7 | 40-140 | 4.24  | 20 |  |
| Naphthalene (SIM)            | 32.4 | 20  | µg/L | 50.0 |  | 64.8 | 40-140 | 4.23  | 20 |  |
| Phenanthrene (SIM)           | 41.1 | 1.0 | µg/L | 50.0 |  | 82.2 | 40-140 | 2.81  | 20 |  |
| Pyrene (SIM)                 | 40.6 | 20  | µg/L | 50.0 |  | 81.2 | 40-140 | 12.0  | 20 |  |
| Surrogate: Nitrobenzene-d5   | 80.6 |     | µg/L | 100  |  | 80.6 | 30-130 |       |    |  |
| Surrogate: 2-Fluorobiphenyl  | 73.2 |     | µg/L | 100  |  | 73.2 | 30-130 |       |    |  |
| Surrogate: p-Terphenyl-d14   | 98.0 |     | µg/L | 100  |  | 98.0 | 30-130 |       |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B302154 - SW-846 3546**
**Blank (B302154-BLK1)**

Prepared: 03/01/22 Analyzed: 03/02/22

|                             |      |     |           |      |  |      |        |  |  |   |
|-----------------------------|------|-----|-----------|------|--|------|--------|--|--|---|
| Diesel Range Organics       | ND   | 8.3 | mg/Kg wet |      |  |      |        |  |  | U |
| Surrogate: 2-Fluorobiphenyl | 2.56 |     | mg/Kg wet | 3.33 |  | 76.8 | 40-140 |  |  |   |

**LCS (B302154-BS1)**

Prepared: 03/01/22 Analyzed: 03/02/22

|                             |      |     |           |      |  |      |        |  |  |  |
|-----------------------------|------|-----|-----------|------|--|------|--------|--|--|--|
| Diesel Range Organics       | 27.8 | 8.3 | mg/Kg wet | 33.3 |  | 83.3 | 40-140 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.73 |     | mg/Kg wet | 3.33 |  | 81.9 | 40-140 |  |  |  |

**LCS Dup (B302154-BSD1)**

Prepared: 03/01/22 Analyzed: 03/02/22

|                             |      |     |           |      |  |      |        |      |    |  |
|-----------------------------|------|-----|-----------|------|--|------|--------|------|----|--|
| Diesel Range Organics       | 26.4 | 8.3 | mg/Kg wet | 33.3 |  | 79.1 | 40-140 | 5.12 | 30 |  |
| Surrogate: 2-Fluorobiphenyl | 2.59 |     | mg/Kg wet | 3.33 |  | 77.7 | 40-140 |      |    |  |

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**FLAG/QUALIFIER SUMMARY**

|       |                                                                                                                                                        |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| *     | QC result is outside of established limits.                                                                                                            |
| †     | Wide recovery limits established for difficult compound.                                                                                               |
| ‡     | Wide RPD limits established for difficult compound.                                                                                                    |
| #     | Data exceeded client recommended or regulatory level                                                                                                   |
| ND    | Not Detected                                                                                                                                           |
| RL    | Reporting Limit is at the level of quantitation (LOQ)                                                                                                  |
| DL    | Detection Limit is the lower limit of detection determined by the MDL study                                                                            |
| MCL   | Maximum Contaminant Level                                                                                                                              |
|       | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
|       | No results have been blank subtracted unless specified in the case narrative section.                                                                  |
| B     | Analyte is found in the associated laboratory blank as well as in the sample.                                                                          |
| B-05  | Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".                                                   |
| J     | Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).                    |
| PR-06 | pH of sample (pH 3) is outside of method specified preservation criteria.                                                                              |
| R-05  | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.      |
| S-07  | One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.               |
| U     | Analyte included in the analysis, but not detected                                                                                                     |
| V-05  | Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.                         |
| V-20  | Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side.                                          |
|       | Data validation is not affected since sample result was "not detected" for this compound.                                                              |
| Z-01  | Sample poured off into another vial with headspace due to sediment present in sample vial.                                                             |

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**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                             | Certifications |
|-------------------------------------|----------------|
| <b><i>SW-846 8015C in Soil</i></b>  |                |
| Diesel Range Organics               | NY,VA,NH,NC    |
| <b><i>SW-846 8015C in Water</i></b> |                |
| Diesel Range Organics               | NY,VA,NH,NC    |
| <b><i>SW-846 8260D in Soil</i></b>  |                |
| Acetone                             | CT,NH,NY,ME,VA |
| Acrylonitrile                       | CT,NH,NY,ME,VA |
| Benzene                             | CT,NH,NY,ME,VA |
| Bromobenzene                        | NH,NY,ME,VA    |
| Bromochloromethane                  | NH,NY,ME,VA    |
| Bromodichloromethane                | CT,NH,NY,ME,VA |
| Bromoform                           | CT,NH,NY,ME,VA |
| Bromomethane                        | CT,NH,NY,ME,VA |
| 2-Butanone (MEK)                    | CT,NH,NY,ME,VA |
| tert-Butyl Alcohol (TBA)            | NY,ME          |
| n-Butylbenzene                      | CT,NH,NY,ME,VA |
| sec-Butylbenzene                    | CT,NH,NY,ME,VA |
| tert-Butylbenzene                   | CT,NH,NY,ME,VA |
| Carbon Disulfide                    | CT,NH,NY,ME,VA |
| Carbon Tetrachloride                | CT,NH,NY,ME,VA |
| Chlorobenzene                       | CT,NH,NY,ME,VA |
| Chlorodibromomethane                | CT,NH,NY,ME,VA |
| Chloroethane                        | CT,NH,NY,ME,VA |
| Chloroform                          | CT,NH,NY,ME,VA |
| Chloromethane                       | CT,NH,NY,ME,VA |
| 2-Chlorotoluene                     | CT,NH,NY,ME,VA |
| 4-Chlorotoluene                     | CT,NH,NY,ME,VA |
| 1,2-Dibromo-3-chloropropane (DBCP)  | NY,ME          |
| 1,2-Dibromoethane (EDB)             | NH,NY          |
| Dibromomethane                      | NH,NY,ME,VA    |
| 1,2-Dichlorobenzene                 | CT,NH,NY,ME,VA |
| 1,3-Dichlorobenzene                 | CT,NH,NY,ME,VA |
| 1,4-Dichlorobenzene                 | CT,NH,NY,ME,VA |
| trans-1,4-Dichloro-2-butene         | NY,ME          |
| Dichlorodifluoromethane (Freon 12)  | NH,NY,ME,VA    |
| 1,1-Dichloroethane                  | CT,NH,NY,ME,VA |
| 1,2-Dichloroethane                  | CT,NH,NY,ME,VA |
| 1,1-Dichloroethylene                | CT,NH,NY,ME,VA |
| cis-1,2-Dichloroethylene            | CT,NH,NY,ME,VA |
| trans-1,2-Dichloroethylene          | CT,NH,NY,ME,VA |
| 1,2-Dichloropropane                 | CT,NH,NY,ME,VA |
| 1,3-Dichloropropane                 | NH,NY,ME,VA    |
| 2,2-Dichloropropane                 | NH,NY,ME,VA    |
| 1,1-Dichloropropene                 | NH,NY,ME,VA    |
| cis-1,3-Dichloropropene             | CT,NH,NY,ME,VA |
| trans-1,3-Dichloropropene           | CT,NH,NY,ME,VA |
| Diethyl Ether                       | ME             |

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**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                             | Certifications |
|-------------------------------------|----------------|
| <b><i>SW-846 8260D in Soil</i></b>  |                |
| 1,4-Dioxane                         | NY,ME          |
| Ethylbenzene                        | CT,NH,NY,ME,VA |
| Hexachlorobutadiene                 | NH,NY,ME,VA    |
| 2-Hexanone (MBK)                    | CT,NH,NY,ME,VA |
| Isopropylbenzene (Cumene)           | CT,NH,NY,ME,VA |
| p-Isopropyltoluene (p-Cymene)       | NH,NY          |
| Methyl Acetate                      | NY,ME          |
| Methyl tert-Butyl Ether (MTBE)      | NY,ME,VA       |
| Methyl Cyclohexane                  | NY             |
| Methylene Chloride                  | CT,NH,NY,ME,VA |
| 4-Methyl-2-pentanone (MIBK)         | CT,NH,NY,ME,VA |
| Naphthalene                         | NH,NY,ME,VA    |
| n-Propylbenzene                     | NH,NY,ME       |
| Styrene                             | CT,NH,NY,ME,VA |
| 1,1,1,2-Tetrachloroethane           | CT,NH,NY,ME,VA |
| 1,1,2,2-Tetrachloroethane           | CT,NH,NY,ME,VA |
| Tetrachloroethylene                 | CT,NH,NY,ME,VA |
| Toluene                             | CT,NH,NY,ME,VA |
| 1,2,3-Trichlorobenzene              | NY,ME          |
| 1,2,4-Trichlorobenzene              | NH,NY,ME,VA    |
| 1,3,5-Trichlorobenzene              | ME             |
| 1,1,1-Trichloroethane               | CT,NH,NY,ME,VA |
| 1,1,2-Trichloroethane               | CT,NH,NY,ME,VA |
| Trichloroethylene                   | CT,NH,NY,ME,VA |
| Trichlorofluoromethane (Freon 11)   | CT,NH,NY,ME,VA |
| 1,2,3-Trichloropropane              | NH,NY,ME,VA    |
| 1,2,4-Trimethylbenzene              | CT,NH,NY,ME,VA |
| 1,3,5-Trimethylbenzene              | CT,NH,NY,ME,VA |
| Vinyl Chloride                      | CT,NH,NY,ME,VA |
| m+p Xylene                          | CT,NH,NY,ME,VA |
| o-Xylene                            | CT,NH,NY,ME,VA |
| <b><i>SW-846 8260D in Water</i></b> |                |
| Acetone                             | CT,ME,NH,VA,NY |
| Acrylonitrile                       | CT,ME,NH,VA,NY |
| tert-Amyl Methyl Ether (TAME)       | ME,NH,VA,NY    |
| Benzene                             | CT,ME,NH,VA,NY |
| Bromobenzene                        | ME,NY          |
| Bromochloromethane                  | ME,NH,VA,NY    |
| Bromodichloromethane                | CT,ME,NH,VA,NY |
| Bromoform                           | CT,ME,NH,VA,NY |
| Bromomethane                        | CT,ME,NH,VA,NY |
| 2-Butanone (MEK)                    | CT,ME,NH,VA,NY |
| tert-Butyl Alcohol (TBA)            | ME,NH,VA,NY    |
| n-Butylbenzene                      | ME,VA,NY       |
| sec-Butylbenzene                    | ME,VA,NY       |
| tert-Butylbenzene                   | ME,VA,NY       |

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**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                             | Certifications |
|-------------------------------------|----------------|
| <b><i>SW-846 8260D in Water</i></b> |                |
| tert-Butyl Ethyl Ether (TBEE)       | ME,NH,VA,NY    |
| Carbon Disulfide                    | CT,ME,NH,VA,NY |
| Carbon Tetrachloride                | CT,ME,NH,VA,NY |
| Chlorobenzene                       | CT,ME,NH,VA,NY |
| Chlorodibromomethane                | CT,ME,NH,VA,NY |
| Chloroethane                        | CT,ME,NH,VA,NY |
| Chloroform                          | CT,ME,NH,VA,NY |
| Chloromethane                       | CT,ME,NH,VA,NY |
| 2-Chlorotoluene                     | ME,NH,VA,NY    |
| 4-Chlorotoluene                     | ME,NH,VA,NY    |
| 1,2-Dibromo-3-chloropropane (DBCP)  | ME,NY          |
| 1,2-Dibromoethane (EDB)             | ME,NY          |
| Dibromomethane                      | ME,NH,VA,NY    |
| 1,2-Dichlorobenzene                 | CT,ME,NH,VA,NY |
| 1,3-Dichlorobenzene                 | CT,ME,NH,VA,NY |
| 1,4-Dichlorobenzene                 | CT,ME,NH,VA,NY |
| trans-1,4-Dichloro-2-butene         | ME,NH,VA,NY    |
| Dichlorodifluoromethane (Freon 12)  | ME,NH,VA,NY    |
| 1,1-Dichloroethane                  | CT,ME,NH,VA,NY |
| 1,2-Dichloroethane                  | CT,ME,NH,VA,NY |
| 1,1-Dichloroethylene                | CT,ME,NH,VA,NY |
| cis-1,2-Dichloroethylene            | ME,NY          |
| trans-1,2-Dichloroethylene          | CT,ME,NH,VA,NY |
| 1,2-Dichloropropane                 | CT,ME,NH,VA,NY |
| 1,3-Dichloropropane                 | ME,VA,NY       |
| 2,2-Dichloropropane                 | ME,NH,VA,NY    |
| 1,1-Dichloropropene                 | ME,NH,VA,NY    |
| cis-1,3-Dichloropropene             | CT,ME,NH,VA,NY |
| trans-1,3-Dichloropropene           | CT,ME,NH,VA,NY |
| Diethyl Ether                       | ME,NY          |
| Diisopropyl Ether (DIPE)            | ME,NH,VA,NY    |
| 1,4-Dioxane                         | ME,NY          |
| Ethylbenzene                        | CT,ME,NH,VA,NY |
| Hexachlorobutadiene                 | CT,ME,NH,VA,NY |
| 2-Hexanone (MBK)                    | CT,ME,NH,VA,NY |
| Isopropylbenzene (Cumene)           | ME,VA,NY       |
| p-Isopropyltoluene (p-Cymene)       | CT,ME,NH,VA,NY |
| Methyl Acetate                      | ME,NY          |
| Methyl tert-Butyl Ether (MTBE)      | CT,ME,NH,VA,NY |
| Methyl Cyclohexane                  | NY             |
| Methylene Chloride                  | CT,ME,NH,VA,NY |
| 4-Methyl-2-pentanone (MIBK)         | CT,ME,NH,VA,NY |
| Naphthalene                         | ME,NH,VA,NY    |
| n-Propylbenzene                     | CT,ME,NH,VA,NY |
| Styrene                             | CT,ME,NH,VA,NY |
| 1,1,1,2-Tetrachloroethane           | CT,ME,NH,VA,NY |
| 1,1,2,2-Tetrachloroethane           | CT,ME,NH,VA,NY |

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**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                                           | Certifications    |
|---------------------------------------------------|-------------------|
| <b><i>SW-846 8260D in Water</i></b>               |                   |
| Tetrachloroethylene                               | CT,ME,NH,VA,NY    |
| Toluene                                           | CT,ME,NH,VA,NY    |
| 1,2,3-Trichlorobenzene                            | ME,NH,VA,NY       |
| 1,2,4-Trichlorobenzene                            | CT,ME,NH,VA,NY    |
| 1,3,5-Trichlorobenzene                            | ME                |
| 1,1,1-Trichloroethane                             | CT,ME,NH,VA,NY    |
| 1,1,2-Trichloroethane                             | CT,ME,NH,VA,NY    |
| Trichloroethylene                                 | CT,ME,NH,VA,NY    |
| Trichlorofluoromethane (Freon 11)                 | CT,ME,NH,VA,NY    |
| 1,2,3-Trichloropropane                            | ME,NH,VA,NY       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | VA,NY             |
| 1,2,4-Trimethylbenzene                            | ME,VA,NY          |
| 1,3,5-Trimethylbenzene                            | ME,VA,NY          |
| Vinyl Chloride                                    | CT,ME,NH,VA,NY    |
| m+p Xylene                                        | CT,ME,NH,VA,NY    |
| o-Xylene                                          | CT,ME,NH,VA,NY    |
| <b><i>SW-846 8270E in Soil</i></b>                |                   |
| Acenaphthene                                      | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                                    | CT,NY,NH,ME,NC,VA |
| Anthracene                                        | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                                | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                                    | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                              | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                              | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                              | CT,NY,NH,ME,NC,VA |
| Chrysene                                          | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                             | CT,NY,NH,ME,NC,VA |
| Fluoranthene                                      | CT,NY,NH,ME,NC,VA |
| Fluorene                                          | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene                            | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                               | CT,NY,NH,ME,NC,VA |
| Naphthalene                                       | CT,NY,NH,ME,NC,VA |
| Phenanthrene                                      | CT,NY,NH,ME,NC,VA |
| Pyrene                                            | CT,NY,NH,ME,NC,VA |

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

| Code  | Description                                  | Number        | Expires    |
|-------|----------------------------------------------|---------------|------------|
| AIHA  | AIHA-LAP, LLC - ISO17025:2017                | 100033        | 03/1/2024  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2022 |
| CT    | Connecticut Department of Public Health      | PH-0165       | 12/31/2022 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2022  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2023  |
| RI    | Rhode Island Department of Health            | LAO00373      | 12/30/2022 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2022 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2022 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2022 |
| VT    | Vermont Department of Health Lead Laboratory | LL720741      | 07/30/2022 |
| ME    | State of Maine                               | MA00100       | 06/9/2023  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2022 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2022  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2022 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2022 |
| PA    | Commonwealth of Pennsylvania DEP             | 68-05812      | 06/30/2022 |
| MI    | Dept. of Env, Great Lakes, and Energy        | 9100          | 09/6/2022  |

### Access COC's and Support Requests

Company Name: Wilcox & Burton, Inc  
Address: #1B Commons Dr Unit 12, Londonderry, NH  
Phone: 603 369 4190  
Project Name: GAFT 0165  
Project Location: 163 Hwy 12, Fitzwilliam, NH  
Project Number: GAFT 0165  
Project Manager: R Burton  
Pace Quote Name/Number:  
Invoice Recipient:  
Sampled By: DR. d

|                                            |                                         |                                           |                          |
|--------------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------|
| Requested Turnaround Time                  |                                         | Dissolved Metals Samples                  |                          |
| 7-Day <input type="checkbox"/>             | 10-Day <input type="checkbox"/>         | <input type="radio"/>                     | Field Filtered           |
| PFAS 10-Day (std) <input type="checkbox"/> | Due Date: <i>5-day</i>                  | <input type="radio"/>                     | Lab to Filter            |
| Rush-Approval Required                     |                                         | Orthophosphate Samples                    |                          |
| 1-Day <input type="checkbox"/>             | 3-Day <input type="checkbox"/>          | <input type="radio"/>                     | Field Filtered           |
| 2-Day <input type="checkbox"/>             | 4-Day <input type="checkbox"/>          | <input type="radio"/>                     | Lab to Filter            |
| Data Delivery                              |                                         |                                           |                          |
| Format:                                    | PDF <input checked="" type="checkbox"/> | EXCEL <input checked="" type="checkbox"/> | PCB ONLY                 |
| Other:                                     |                                         |                                           |                          |
| CLP Like Data Pkg Required:                | <input type="checkbox"/>                | SOXHLET                                   | <input type="checkbox"/> |
| Email To:                                  |                                         |                                           |                          |
| Fax To #:                                  | NON SOXHLET <input type="checkbox"/>    |                                           |                          |

## ANALYSIS REQUESTED

[illegible]

<sup>2</sup> Preservation Codes:

**f** = lced

$$H = HCL$$

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

0 = Other (please define)

|                              |                         |
|------------------------------|-------------------------|
| Relinquished by: (signature) | Date/Time: 0900         |
| Received by: (signature)     | Date/Time: 2-28-22      |
| Relinquished by: (signature) | Date/Time: 2/28/22 1010 |
| Received by: (signature)     | Date/Time: 2/28/22 1800 |
| Relinquished by: (signature) | Date/Time: 2-28-22 1800 |
| Received by: (signature)     | Date/Time:              |
| Relinquished by: (signature) | Date/Time:              |
| Received by: (signature)     | Date/Time:              |

|                                                                                                                                                                                                                     |                          |                                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|--------------------------|--------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--|
| Client Comments:<br><div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; font-size: 40px; margin: 10px auto;">B</div> |                          |                                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
| Detection Limit Requirements                                                                                                                                                                                        |                          | Special Requirements            |                          |        |                          | Please use the following codes to indicate possible sample concentration within the Conc Code column above:<br>H - High; M - Medium; L - Low; C - Clean; U - Unknown |                          |       |  |
| MAA                                                                                                                                                                                                                 | <input type="checkbox"/> | MA MCP Required                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
|                                                                                                                                                                                                                     | <input type="checkbox"/> | MCP Certification Form Required |                          |        |                          |                                                                                                                                                                      |                          |       |  |
|                                                                                                                                                                                                                     | <input type="checkbox"/> | CT RCP Required                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
| CT                                                                                                                                                                                                                  | <input type="checkbox"/> | RCP Certification Form Required |                          |        |                          |                                                                                                                                                                      |                          |       |  |
|                                                                                                                                                                                                                     |                          |                                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
|                                                                                                                                                                                                                     |                          |                                 |                          |        |                          |                                                                                                                                                                      |                          |       |  |
| Other: NHDES A6025                                                                                                                                                                                                  |                          | PWSID #                         |                          |        |                          | MA State DW Required                                                                                                                                                 |                          |       |  |
| Project Entity                                                                                                                                                                                                      |                          |                                 |                          |        |                          | NELAC and AIHA-LAP, LLC Accredited                                                                                                                                   |                          |       |  |
| Government                                                                                                                                                                                                          | <input type="checkbox"/> | Municipality                    | <input type="checkbox"/> | MWRA   | <input type="checkbox"/> | WRTA                                                                                                                                                                 | <input type="checkbox"/> | Other |  |
| Federal                                                                                                                                                                                                             | <input type="checkbox"/> | 21 J                            | <input type="checkbox"/> | School | <input type="checkbox"/> | <input type="checkbox"/> Chromatogram                                                                                                                                |                          |       |  |
| City                                                                                                                                                                                                                | <input type="checkbox"/> | Brownfield                      | <input type="checkbox"/> | MRTA   | <input type="checkbox"/> | <input type="checkbox"/> AIHA-LAP, LLC                                                                                                                               |                          |       |  |

b Comments:

**Disclaimer:** Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client W&B

Received By [Signature] Date 2/28/22 Time 1800

How were the samples received? In Cooler T No Cooler        On Ice T No Ice         
Direct from Sampling        Ambient        Melted Ice       

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.0  
By Blank #        Actual Temp -       

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?       

Are there Rushes? F Who was notified?       

Are there Short Holds? F Who was notified?       

Is there enough Volume? T

Is there Headspace where applicable? Yes A-T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid n/a Base n/a

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

**Unused Media**

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

Comments:

## **APPENDIX E**

### **Waste Disposal**

Please print or type.

Form Approved. OMB No. 2050-0039

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------|-------------------|-----------------|--------------|
| GENERATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNIFORM HAZARDOUS WASTE MANIFEST                                                                                                                                 |                                                                                                                | 1. Generator ID Number<br>NH0510050082 | 2. Page 1 of 1 | 3. Emergency Response Phone<br>800-255-3924                                                                                 | 4. Manifest Tracking Number<br>006366813 GBF |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5. Generator's Name and Mailing Address<br>Turnkey Lumber Corp.<br>305 Leominster- Shirley Line<br>Lunenburg MA 01462<br>Generator's Phone: 978-798-1370         |                                                                                                                |                                        |                | Generator's Site Address (if different than mailing address)<br>Fitzwilliam LLC<br>179 NH Route 12N<br>Fitzwilliam NH 03447 |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6. Transporter 1 Company Name<br>Gaftek Inc.                                                                                                                     |                                                                                                                |                                        |                | U.S. EPA ID Number<br>MER000512038                                                                                          |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7. Transporter 2 Company Name                                                                                                                                    |                                                                                                                |                                        |                | U.S. EPA ID Number                                                                                                          |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8. Designated Facility Name and Site Address<br>NRC Environmental of Maine, Inc.<br>106 Main street<br>South Portland ME 04106<br>Facility's Phone: 207-798-8858 |                                                                                                                |                                        |                | U.S. EPA ID Number<br>MED010051088                                                                                          |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9a. HM                                                                                                                                                           | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) |                                        |                | 10. Containers<br>No. Type                                                                                                  |                                              | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.                                                                                                                                                               | Non-regulated material                                                                                         |                                        |                | 1                                                                                                                           |                                              | IT                 | 203               | 6               | NONE<br>NHX1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.                                                                                                                                                               |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.                                                                                                                                                               |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.                                                                                                                                                               |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 14. Special Handling Instructions and Additional Information<br>1)(L) diesel fuel mixture going for recycle PO583672 279573 MIS5112744                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.<br>I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| Generator's/Offor's Printed/Typed Name<br>Armando Palafox<br>Signature<br>[Signature]<br>Month Day Year<br>11 7 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 16. International Shipments<br><input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____<br>Transporter signature (for exports only): _____ Date leaving U.S.: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 17. Transporter Acknowledgment of Receipt of Materials<br>Transporter 1 Printed/Typed Name<br>BRIAN WILLIS<br>Signature<br>[Signature]<br>Month Day Year<br>11 7 19<br>Transporter 2 Printed/Typed Name<br>_____<br>Signature<br>_____<br>Month Day Year<br>_____<br>_____<br>_____                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 18. Discrepancy<br>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection<br>Manifest Reference Number: _____<br>18b. Alternate Facility (or Generator) U.S. EPA ID Number<br>Facility's Phone: _____<br>18c. Signature of Alternate Facility (or Generator) Month Day Year<br>_____<br>_____<br>_____                                                                                                                                                                                                                                                      |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)<br>1. _____ 2. _____ 3. _____ 4. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a<br>Printed/Typed Name _____ Signature _____ Month Day Year<br>_____<br>_____<br>_____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |                                                                                                                |                                        |                |                                                                                                                             |                                              |                    |                   |                 |              |



Phone: 888-485-5731

160 Perry Rd, Bangor, ME 04401  
2083 Dover Rd, Epsom, NH 03234  
75 Scott Drive, Westbrook, ME 04092  
155 Memorial Dr, Shrewsbury, MA 01545

INVOICE

| DATE      |
|-----------|
| 11/8/2019 |

| INVOICE #  |
|------------|
| 0000218096 |

| BILL TO:                                                                        |
|---------------------------------------------------------------------------------|
| Turnkey Lumber Corporation<br>305 Leominster-Shirley Road<br>Lunenburg MA 01462 |

| SERVICE LOCATION:                                                |
|------------------------------------------------------------------|
| Fitzwilliam LLC<br>179 NH Route 12 North<br>Fitzwilliam NH 03447 |

| P.O. NUMBER                                                              |         | TERMS                                         | TECHNICIAN | DISPATCH # | B. CLERK |
|--------------------------------------------------------------------------|---------|-----------------------------------------------|------------|------------|----------|
| COD CCD call in                                                          |         | NET 30                                        | 2350       | 279573     | 2710     |
| QUAN                                                                     | PART ID | DESCRIPTION                                   |            | PRICE EACH | AMOUNT   |
| Environmental                                                            |         |                                               |            |            |          |
| SCOPE OF WORK: Sting diesel UST of remaining product to less than 1 inch |         |                                               |            |            |          |
| 11/07/19 BW- PUMP RESIDUAL OIL FROM DIESEL UST AND STP SUMP              |         |                                               |            |            |          |
| 2.00                                                                     |         | 3000 GALLON VACUUM TRUCK/HR                   |            | 60.00      | 120.00   |
| 2.00                                                                     |         | VAC TRUCK OPERATOR                            |            | 65.00      | 130.00   |
| 203.00                                                                   |         | DISPOSAL OF 203 GALLON OF DIESEL FUEL & WATER |            | 0.55       | 111.65   |
| 1.00                                                                     |         | EPA E-MANIFEST UPLOAD FEE                     |            | 24.00      | 24.00    |
| 203.00                                                                   |         | NON HAZARDOUS WASTE TRANSPORTER FEE           |            | 0.02       | 4.06     |
| TOTAL                                                                    |         |                                               |            |            | \$389.71 |
| Visa XXXXXXXXXXXXX5401                                                   |         |                                               |            |            | \$389.71 |
| Auth 776200                                                              |         |                                               |            |            |          |
| BALANCE                                                                  |         |                                               |            |            | \$0.00   |

Mail Payments to: 160 Perry Road, Bangor, ME 04401  
We Accept MasterCard/Visa.  
All overdue charges are subject to a 1.5% monthly fee.  
Technician work orders are available upon request.

Thank you for your business!



Y \*\*\*Three Hund