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IMMEDIATE RESPONSE ACTION (IRA) STATUS REPORT NO. 1

Release Tracking No.: 4-27363

Property Located at:

Residential Lot
85 McCabe Street
Dartmouth, Massachusetts

Prepared For:

Terceira Construction
1 Cookie Way
Dartmouth, MA 02748

Prepared By:

SITEC Environmental, Inc.
769 Plain Street, Unit C
Marshfield, MA 02050

SITEC Project Number:

SE18-1375

Date:

December 27, 2018

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1.0 INTRODUCTION

This document is an *Immediate Response Action (IRA) Status Report No. 1* prepared by SITEC Environmental, Inc. (SITEC) regarding a reported release of oil and/or hazardous materials (OHM) at a vacant residential lot located at 85 McCabe Street in Dartmouth, Massachusetts (the "Site"). This report serves to notify the Massachusetts Department of Environmental Protection (MassDEP) of the results of the completed assessment activities which are performed under authorization from Terceira Construction, the potentially responsible party (PRP) for this release.

The actions were conducted in compliance with Massachusetts General Laws Chapter 21E (MGL Chapter 21E) and the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000. The purpose of this report is to satisfy MCP requirements for IRA status reports at 310 CMR 40.0425. SITEC will prepare and submit subsequent status reports every six months or until an IRA Completion Report is submitted.

1.1 Limitations

The conclusions contained in this report are based solely upon and limited to the information described herein. Overall site observations were limited to clearly visible, unobstructed conditions. In completing this IRA Plan, SITEC did not consider whether this property is in compliance with any other statutes, laws, by-laws, regulations or policies unless compliance was directly related to the reported release. A portion of the information provided in this report is based upon personal interviews by the parties involved. SITEC did not attempt to independently verify the completeness, correctness or accuracy of this information. SITEC reserves the right to change its conclusions upon learning that this information was incomplete, incorrect or inaccurate.

2.0 PROPERTY DESCRIPTION

The following information was obtained during SITEC's Property reconnaissance, from local records review, and a review of publicly available maps and plans.

2.1 Property Location

The Site is located at 85 McCabe Street, Bristol County, Dartmouth, Massachusetts. According to the Town of Dartmouth Assessors Office, the land on which the Site is located is identified on Map 144, as Lot 64 (the "Property"). The coordinates for the Site is approximately 41° 36' 59" North Latitude and 70° 56' 51" West Longitude. The Property is rectangular and consists of approximately 0.20 acres. A Locus Map is included as Figure 1 and a Site Sketch is included as Attachment 2.

2.2 Vicinity Characteristics

The Property is zoned residential and is located in a sub-urban residential area in South Dartmouth. The Property is located approximately 0.3 miles west from the Dartmouth-New Bedford town line. The Property and the vicinity are served by municipal water, gas, and telephone/cable services; however, there is a private drinking water supply well located within 500 feet from the Site.

2.3 Property Uses

The Property is currently unoccupied. There was a former single family residence located on the Property (constructed in 1949) which was demolished. The construction of a new single family residence began in July 2018. The foundation excavation has been completed and the bottom of the excavation is covered with pea stone. Construction was halted upon discovery of the release.

2.4 Uses of Adjoining Properties

Single family residences abut the Property to the west, north, and east. McCabe Street abuts the Property to the south with single family residences located across McCabe Street from the Property.

3.0 COMPLIANCE HISTORY

On July 30, 2018 MassDEP received verbal notification from Michael O'Reilly, Environmental Affairs Coordinator for the Town of Dartmouth regarding a release of OHM at the Site. Mr. O'Reilly reported that deteriorated metal drums containing a black viscous petroleum-based substance, and rusted metal objects, rubber tires, glass, and other discarded debris, were excavated during foundation demolition at the single family residential lot.

On July 31, 2018, SITEC along with MassDEP visited the Site and observed conditions consistent with the observations of Mr. O'Reilly. Visible on the side wall of the excavation was various debris including rusted metal objects, tires, glass bottles, and a black petroleum based substance in the soil. In addition, two damaged metal containers were observed on the pile of excavated soil which were leaking a viscous black petroleum based liquid. Two grab soil samples were collected from the side wall of the excavation by SITEC. Soil sample SS-1 was collected from the western excavation wall and sample SS-2 was collected from the northern wall of the excavation.

Both samples were submitted to Alpha Analytical Laboratories for the analysis of semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), pesticides, poly-chlorinated biphenyls (PCBs), and MCP Metals. In addition, SITEC submitted the soil sample SS-2 for analysis of Volatile organic Compounds (VOCs). Due to the elevated concentration of total chromium reported in sample SS-1, this sample was also analyzed for Chromium VI.

Chromium VI was not detected and no VOCs were reported above their respective Method 1 Standard. Elevated concentrations of several SVOCs were reported above in both soil samples. There was no instance where a pesticide or PCB was reported exceeding its Method 1 Standard. Elevated concentrations of several metals including lead and chromium were reported in the soil samples. These results of the side wall samples have been incorporated into this report and the laboratory report was included in a previous submittal to MassDEP

On August 30, 2018, SITEC submitted an IRA Plan reporting the assessment activities conducted up to that date and proposed future response actions. Proposed response actions outlined in the IRA Plan included the disposal of the excavated soil stockpile and further assessment via the excavation of test pits.

4.0 COMPLETED IMMEDIATE RESPONSE ACTIONS

The Immediate Response Action (IRA) activities were conducted in accordance with the IRA Plan which was submitted to MassDEP on August 30, 2018. IRAs are assessment and/or remedial actions that are undertaken in an expeditious manner to address a time-critical release or site conditions. During this reporting period of August 31, 2018 to December 27, 2018 (since the submittal of the IRA Plan), the following immediate response action have been conducted.

4.1 Assessment and Removal of the Viscous Black Petroleum Liquid

On August 28, 2018, SITEC collected two samples of the viscous black petroleum liquid leaking out of the drums on the north side of the soil pile. One sample of the black substance was leaking out of a 5 gallon metal pail (DRUM 1) and the other sample was collected from the substance leaking out of a 55-gallon metal drum (DRUM 2). The samples were submitted to Alpha Analytical Laboratories for characterization (petroleum hydrocarbon identification) including analysis of PCBs. Alpha Analytical Laboratories concluded that the material appears to be chemically similar to a coal tar or creosote. A low detection of PCBs (3.77 mg/kg) was reported in the black vicious substance leaking out of the 5 gallon pail. PCBs were not detected in the black vicious substance leaking out of the 55 gallon drum. The viscous black petroleum substance laboratory report is included as Attachment 1.

On September 5, 2018, the drums and viscous black petroleum substance was removed by hand from the soil stockpile and the deteriorated drums, the viscous black petroleum substance, and any contaminated soil/debris was put into 85-gallon drum overpacks. The overpacks were sealed and remain on the Property pending characterization and disposal. No additional deteriorated drums were located in the soil stockpile.

4.2 Disposal of Soil Pile

Once the viscous black petroleum liquid was removed, the stockpile of excavated soil was transported to a recycling facility. A composite soil sample was previously collected from the soil stockpile for waste characterization purposes. Elevated concentrations of VOCs, SVOCs, and TPH were reported in the remediation waste characterization sample. PCBs were not detected in the waste characterization sample. SITEC subsequently received approval to transport the soil to the Ondrick Materials & Recycling, LLC facility in Chicopee, Massachusetts. The laboratory report for the remediation waste characterization sample has been submitted to MassDEP in previous submittals.

On September 27 and 28 and October 1, 2018, ten (10) loads of the stockpiled soil was transported to the Ondrick Materials & Recycling, LLC facility for asphalt batch plant recycling. The soil were handled by a MassDEP Bill of Lading (BOL). A copy of the BOL, facility receipts, and transport logs are included as Attachment 2. A total of 338.82 tons of contaminated soil was recycled at the asphalt batch plant.

4.3 Test Pit Investigation

On October 2, 2018, SITEC observed the excavation of eight test pits on the Site and on October 26, 2018 and SITEC observed an additional 10 test pits on the Site. Each test pit was advanced to a depth of 3 to 5 feet below grade. Urban fill and debris, containing varying amounts of sand, ash, bricks, glass, metal, rubber, tires and a black petroleum substance (tar) were observed in a majority of the test pits. Test pit logs are included as Attachment 3. The test pits are shown of Figure 2 - Site Sketch.

During test pit advancement, a soil sample was collected from each test pit and placed in pre-cleaned 8-oz jars and the jar headspace was screened for volume/volume of total organic vapors "as isobutylene" in units of parts per million (ppm) using a calibrated Mini-Rea 2000 Photo-ionization Detector (PID). The headspace screening results and sample descriptions are included on test pit logs. Selected soil samples were submitted to Alpha Analytical Laboratory for laboratory analysis of poly-cyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and 13 MCP Metals. Two samples which exhibited elevated headspace screening results were also submitted for the analysis of volatile organic compounds (VOCs)

Table 1 summarizes the VOC analysis and compares the results to the Method 1 Standards. As noted from Table 1, elevated concentrations of VOCs were reported above their respective S-1, S-2, and S-3 Method 1 Standards in the soil samples collected from the two test pits.

Table 2 summarizes the PAH, PCBs, and metals soil analysis and compares the results to the Method 1 Standards. As noted from Table 2, elevated concentrations of PAHs and Metals were reported above their respective S-1, S-2, and S-3 Method 1 Standards in the soil samples collected from eleven of the 14 test pit soil samples. Barium was reported at TP-6 exceeding its upper concentration limit (UCL). In addition, a concentration of PCBs was reported at TP-12 exceeding its S-1 Method 1 Standard. The soil laboratory reports are included in Attachment 4.

The concentrations of PAHs and Metals reported on the Site are highly variable and no particular pattern was observed. However, higher concentrations of PAHs were generally reported on the center and western portions of the Site and higher concentrations of metals were generally reported on the eastern portion of the Site.

During the test pit excavation on October 26, 2018, samples of apparent transite panel debris was collected from TP-12, TP-17, and from the north side wall of the excavation (SS-1). In addition samples of the harden viscous black petroleum substance was collected from the north side wall (SS-2) and the east side wall (SS-3) of the existing excavation. Each of these samples were submitted to R.I. Analytical in Warwick, Rhode Island for the analysis of asbestos using polarized light microscopy (PLM).

The laboratory reported the apparent transite panels (samples TP-12, TP-17, and SS-1) contained greater than 1% chrysotile asbestos, identifying these materials as asbestos containing materials (ACMs). Asbestos was not detected in samples of the black petroleum substance (SS-2 and SS-3). The Asbestos Laboratory Report from R.I. Analytical is included as Attachment 5.

5.0 FUTURE IRA ACTIVITIES

Future IRA activities will be conducted to supplement current site information and to provide the necessary data for a complete risk characterization. Proposed IRA activities are anticipated to include the installation of groundwater monitoring wells and groundwater sampling. The characterization of groundwater is necessary to define the nature and extent of contamination and to provide adequate data for the risk characterization.

Authorization for SITEC to file this IRA Status Report with MassDEP on behalf of the PRP is included as Attachment 6.

Subject to the limitations previously described and otherwise reference herein, all the available information, research, and Property observations documented to date and contained in this report are, to the best of SITEC's knowledge, true, accurate, and complete.

SITEC ENVIRONMENTAL, INC.



Geoffrey Souza, LSP
Project Manager

TABLES

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| TABLE 2 - POLY-CYCLIC AROMATIC HYDROCARBONS (PAH), POLY-CHLORINATED BIPHENYLS (PCB) AND METALS SOIL ANALYSIS SUMMARY |

Table 1
Volatile Organic Compounds (VOCs) Soil Analysis Summary


Residential Lot
85 McCable Street
Dartmouth, Massachusetts


| COMPOUND | Method 1 Soil Standards (mg/kg) | | | | | | | | | SS-2 | TP-4 | TP-11 |
|-----------------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|-------|
| | S-1,GW-1 | S-1,GW-2 | S-1,GW-3 | S-2,GW-1 | S-2,GW-2 | S-2,GW-3 | S-3,GW-1 | S-3,GW-2 | S-3,GW-3 | | | |
| Methylene chloride | 0.1 | 4 | 400 | 0.1 | 4 | 700 | 0.1 | 4 | 700 | 0.7 U | 89 U | 44 U |
| 1,1-Dichloroethane | 0.4 | 9 | 500 | 0.4 | 9 | 1000 | 0.4 | 9 | 1000 | 0.14 U | 18 U | 8.8 U |
| Chloroform | 0.4 | 0.2 | 500 | 0.4 | 0.2 | 1000 | 0.4 | 0.2 | 1000 | 0.21 U | 26 U | 13 U |
| Carbon tetrachloride | 10 | 5 | 30 | 10 | 5 | 100 | 10 | 5 | 1000 | 0.14 U | 18 U | 8.8 U |
| 1,2-Dichloropropane | 0.1 | 0.1 | 30 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 1000 | 0.14 U | 18 U | 8.8 U |
| Dibromochloromethane | 0.005 | 0.03 | 20 | 0.005 | 0.03 | 100 | 0.005 | 0.03 | 500 | 0.14 U | 18 U | 8.8 U |
| 1,1,2-Trichloroethane | 0.1 | 2 | 40 | 0.1 | 2 | 200 | 0.1 | 2 | 500 | 0.14 U | 18 U | 8.8 U |
| Tetrachloroethene | 1 | 10 | 30 | 1 | 10 | 200 | 1 | 10 | 1000 | 0.07 U | 8.9 U | 4.4 U |
| Chlorobenzene | 1 | 3 | 100 | 1 | 3 | 100 | 1 | 3 | 100 | 0.07 U | 8.9 U | 4.4 U |
| Trichlorofluoromethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.56 U | 71 U | 35 U |
| 1,2-Dichloroethane | 0.1 | 0.1 | 20 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 300 | 0.14 U | 18 U | 8.8 U |
| 1,1,1-Trichloroethane | 30 | 500 | 500 | 30 | 600 | 1000 | 30 | 600 | 3000 | 0.07 U | 8.9 U | 4.4 U |
| Bromodichloromethane | 0.1 | 0.1 | 30 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 500 | 0.07 U | 8.9 U | 4.4 U |
| trans-1,3-Dichloropropene | 0.01 | 0.4 | 20 | 0.01 | 0.4 | 90 | 0.01 | 0.4 | 100 | 0.14 U | 18 U | 8.8 U |
| cis-1,3-Dichloropropene | 0.01 | 0.4 | 20 | 0.01 | 0.4 | 90 | 0.01 | 0.4 | 100 | 0.07 U | 8.9 U | 4.4 U |
| 1,3-Dichloropropene, Total | 0.01 | 0.4 | 20 | 0.01 | 0.4 | 90 | 0.01 | 0.4 | 100 | 0.07 U | 8.9 U | 4.4 U |
| 1,1-Dichloropropene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.07 U | 8.9 U | 4.4 U |
| Bromoform | 0.1 | 1 | 300 | 0.1 | 1 | 800 | 0.1 | 1 | 800 | 0.56 U | 71 U | 35 U |
| 1,1,2,2-Tetrachloroethane | 0.005 | 0.02 | 10 | 0.005 | 0.02 | 50 | 0.005 | 0.02 | 400 | 0.07 U | 8.9 U | 4.4 U |
| Benzene | 2 | 40 | 40 | 2 | 200 | 200 | 2 | 400 | 1000 | 0.24 | 9.8 | 12 |
| Toluene | 30 | 500 | 500 | 30 | 1000 | 1000 | 30 | 2000 | 3000 | 0.57 | 18 U | 8.8 U |
| Ethylbenzene | 40 | 500 | 500 | 40 | 1000 | 1000 | 40 | 1000 | 3000 | 0.14 U | 190 | 160 |
| Chloromethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.56 U | 71 U | 35 U |
| Bromomethane | 0.5 | 0.5 | 30 | 0.5 | 0.5 | 30 | 0.5 | 0.5 | 30 | 0.28 U | 35 U | 18 U |
| Vinyl chloride | 0.9 | 0.7 | 1 | 0.9 | 0.7 | 7 | 0.9 | 0.7 | 60 | 0.14 U | 18 U | 8.8 U |
| Chloroethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,1-Dichloroethene | 3 | 40 | 500 | 3 | 40 | 1000 | 3 | 40 | 3000 | 0.14 U | 18 U | 8.8 U |
| trans-1,2-Dichloroethene | 1 | 1 | 500 | 1 | 1 | 1000 | 1 | 1 | 3000 | 0.21 U | 26 U | 13 U |
| Trichloroethene | 0.3 | 0.3 | 30 | 0.3 | 0.3 | 60 | 0.3 | 0.3 | 60 | 0.07 U | 8.9 U | 4.4 U |
| 1,2-Dichlorobenzene | 9 | 100 | 300 | 9 | 100 | 300 | 9 | 100 | 300 | 0.28 U | 35 U | 18 U |
| 1,3-Dichlorobenzene | 3 | 100 | 100 | 3 | 200 | 500 | 3 | 200 | 500 | 0.28 U | 35 U | 18 U |
| 1,4-Dichlorobenzene | 0.7 | 1 | 80 | 0.7 | 1 | 400 | 0.7 | 1 | 2000 | 0.28 U | 35 U | 18 U |
| Methyl tert butyl ether | 0.1 | 100 | 100 | 0.1 | 100 | 500 | 0.1 | 100 | 500 | 0.28 U | 35 U | 18 U |
| p/m-Xylene | 400 | 100 | 500 | 400 | 100 | 1000 | 400 | 100 | 3000 | 0.33 | 140 | 79 |
| o-Xylene | 400 | 100 | 500 | 400 | 100 | 1000 | 400 | 100 | 3000 | 0.14 U | 60 | 59 |
| Xylenes, Total | 400 | 100 | 500 | 400 | 100 | 1000 | 400 | 100 | 3000 | 0.33 | 200 | 140 |
| cis-1,2-Dichloroethene | 0.3 | 0.1 | 100 | 0.3 | 0.1 | 500 | 0.3 | 0.1 | 500 | 0.14 U | 18 U | 8.8 U |
| 1,2-Dichloroethene, Total | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 18 U | 8.8 U |
| Dibromomethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,2,3-Trichloropropane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| Styrene | 3 | 4 | 70 | 3 | 4 | 300 | 3 | 4 | 2000 | 0.28 | 18 U | 8.8 U |
| Dichlorodifluoromethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 1.4 U | 180 U | 88 U |
| Acetone | 6 | 50 | 400 | 6 | 50 | 400 | 6 | 50 | 400 | 1.4 U | 180 U | 88 U |
| Carbon disulfide | NS | NS | NS | NS | NS | NS | NS | NS | NS | 1.4 U | 180 U | 88 U |
| Methyl ethyl ketone | 4 | 50 | 400 | 4 | 50 | 400 | 4 | 50 | 400 | 1.4 U | 180 U | 88 U |
| Methyl isobutyl ketone | 0.4 | 50 | 400 | 0.4 | 50 | 400 | 0.4 | 50 | 400 | 1.4 U | 180 U | 88 U |
| 2-Hexanone | NS | NS | NS | NS | NS | NS | NS | NS | NS | 1.4 U | 180 U | 88 U |
| Bromochloromethane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| Tetrahydrofuran | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.56 U | 71 U | 35 U |
| 2,2-Dichloropropane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,2-Dibromoethane | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 5 | 0.1 | 0.1 | 40 | 0.14 U | 18 U | 8.8 U |
| 1,3-Dichloropropane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,1,1,2-Tetrachloroethane | 0.1 | 0.1 | 80 | 0.1 | 0.1 | 400 | 0.1 | 0.1 | 500 | 0.07 U | 8.9 U | 4.4 U |
| Bromobenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| n-Butylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 18 U | 8.8 U |
| sec-Butylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 18 U | 8.8 U |
| tert-Butylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| o-Chlorotoluene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| p-Chlorotoluene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,2-Dibromo-3-chloropropane | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.42 U | 53 U | 26 U |
| Hexachlorobutadiene | 30 | 30 | 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0.56 U | 71 U | 35 U |
| Isopropylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 23 | 29 |
| p-Isopropyltoluene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 18 U | 8.8 U |
| Naphthalene | 4 | 20 | 500 | 4 | 20 | 1000 | 4 | 20 | 3000 | 1.2 | 2600 | 1800 |
| n-Propylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.14 U | 28 | 32 |
| 1,2,3-Trichlorobenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,2,4-Trichlorobenzene | 2 | 6 | 700 | 2 | 6 | 3000 | 2 | 6 | 5000 | 0.28 U | 35 U | 18 U |
| 1,3,5-Trimethylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 24 |
| 1,2,4-Trimethylbenzene | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 100 | 120 |
| Diethyl ether | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| Diisopropyl Ether | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| Ethyl-Tert-Butyl-Ether | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| Tertiary-Amyl Methyl Ether | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.28 U | 35 U | 18 U |
| 1,4-Dioxane | 0.2 | 6 | 20 | 0.2 | 6 | 90 | 0.2 | 6 | 500 | 14 U | 1800 U | 880 U |

U = Analyzed but not found; detection limit listed

NS = No Standard for Indicated Parameter

NA = Not Analyzed for Indicated Parameter

 = Yellow shade Indicates an exceedances of MCP S-1, GW-1, GW-2 or GW-3 Method 1 Standard

 = Blue Hatching Indicates an exceedances of MCP S-2, GW-1, GW-2 or GW-3 Method 1 Standard


 = Red Text Indicates an exceedances of MCP S-3, GW-1, GW-2 or GW-3 Method 1 Standard

Table 2
Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and Metals Soil Analysis Summary

Residential Lot
85 McCable Street
Dartmouth, Massachusetts

| COMPOUND | Method 1 Soil Standards (mg/kg) | | | | | | | | | Results (mg/kg) | | | | | | | | | | | | | | | |
|--|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|----------|----------|----------|---------|---------|----------|----------|----------|----------|----------|--------|---------|----------|----------|----------|
| | S-1,GW-1 | S-1,GW-2 | S-1,GW-3 | S-2,GW-1 | S-2,GW-2 | S-2,GW-3 | S-3,GW-1 | S-3,GW-2 | S-3,GW-3 | SS-1 | SS-2 | TP-1 | TP-2 | TP-3 | TP-4 | TP-5 | TP-6 | TP-7 | TP-8 | TP-10 | TP-11 | TP-12 | TP-15 | TP-17 | TP-18 |
| Poly-cyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 4 | 1000 | 1000 | 4 | 3000 | 3000 | 4 | 5000 | 5000 | 0.74 U | 7.7 | 0.17 U | 0.16 U | 0.23 | 25 | 1 | 1.1 U | 3.1 | 0.76 U | 0.16 U | 25 | 4 | 0.22 U | 0.89 U | 1.9 |
| Fluoranthene | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 4 | 45 | 0.13 | 2.4 | 6.6 | 18 | 26 | 5.2 | 7.1 | 14 | 0.12 U | 18 | 56 | 5.4 | 2.4 | 17 |
| Naphthalene | 4 | 20 | 500 | 4 | 20 | 1000 | 4 | 20 | 3000 | 0.92 | 28 | 0.21 U | 0.2 U | 0.2 U | 530 | 5.8 | 1.3 | 32 | 1.4 | 0.2 U | 540 | 5.4 | 0.28 | 1.1 U | 1.5 |
| Benzo(a)anthracene | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 2.8 | 46 | 0.13 U | 1.6 | 3.5 | 15 | 18 | 2.6 | 4 | 8.4 | 0.12 U | 9.2 | 20 | 2 | 1 | 6.2 |
| Benzo(a)pyrene | 2 | 2 | 2 | 7 | 7 | 7 | 30 | 30 | 30 | 2.3 | 42 | 0.17 U | 1.4 | 3 | 13 U | 14 | 2.9 | 3.5 | 5.5 | 0.16 U | 7.5 | 16 | 1.8 | 0.89 U | 5.6 |
| Benzo(b)fluoranthene | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 2.9 | 42 | 0.13 U | 2 | 4.5 | 9.7 U | 17 | 3.5 | 4.2 | 7.4 | 0.12 U | 6.3 | 20 | 2.4 | 1 | 7.5 |
| Benzo(k)fluoranthene | 70 | 70 | 70 | 400 | 400 | 400 | 3000 | 3000 | 3000 | 0.73 | 10 | 0.13 U | 0.52 | 1.4 | 9.7 U | 5.2 | 0.92 | 1.4 | 2.5 | 0.12 U | 2.1 | 5.8 | 0.56 | 0.66 U | 1.9 |
| Chrysene | 70 | 70 | 70 | 400 | 400 | 400 | 3000 | 3000 | 3000 | 3.5 | 56 | 0.13 U | 2 | 4 | 16 | 25 | 3 | 4.6 | 9.2 | 0.12 U | 11 | 23 | 2.6 | 1.1 | 6.6 |
| Acenaphthylene | 1 | 600 | 10 | 1 | 600 | 10 | 1 | 600 | 10 | 2.5 | 64 | 0.17 U | 0.86 | 1 | 13 U | 9.5 | 1.1 U | 2.5 | 3.6 | 0.16 U | 5.6 | 7.1 | 0.81 | 0.89 U | 0.5 |
| Anthracene | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 1.8 | 47 | 0.13 U | 0.67 | 1.2 | 13 | 7.3 | 1.6 | 2.4 | 3 | 0.12 U | 9.9 | 12 | 0.84 | 0.66 U | 4 |
| Benzo(ghi)perylene | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 1.5 | 22 | 0.17 U | 0.76 | 1.6 | 13 U | 8.5 | 1.5 | 2.4 | 4.6 | 0.16 U | 2.2 | 7.8 | 0.9 | 0.89 U | 3.2 |
| Fluorene | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 0.92 U | 20 | 0.21 U | 0.21 | 0.51 | 32 | 3.4 | 1.3 U | 4 | 1 | 0.2 U | 28 | 6.4 | 0.38 | 1.1 U | 1.9 |
| Phenanthrene | 10 | 500 | 500 | 20 | 1000 | 1000 | 20 | 3000 | 3000 | 3 | 49 | 0.14 | 1.3 | 4 | 73 | 24 | 5.4 | 10 | 11 | 0.12 U | 59 | 37 | 4.1 | 1.7 | 20 |
| Dibenzo(a,h)anthracene | 0.7 | 0.7 | 0.7 | 4 | 4 | 4 | 30 | 30 | 30 | 0.55 U | 8.9 | 0.13 U | 0.22 | 0.46 | 9.7 U | 2.6 | 0.8 U | 1.3 U | 1 | 0.12 U | 0.7 | 2 | 0.24 | 0.66 U | 0.85 |
| Indeno(1,2,3-cd)pyrene | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 1.4 | 21 | 0.17 U | 0.8 | 1.8 | 13 U | 8.2 | 1.6 | 2.6 | 4.7 | 0.16 U | 2.2 | 8 | 0.89 | 0.89 U | 3.3 |
| Pyrene | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 5.6 | 89 | 0.18 | 2.7 | 6 | 28 | 41 | 5.2 | 8.9 | 15 | 0.12 U | 34 | 56 | 6.3 | 2.1 | 15 |
| 2-Methylnaphthalene | 0.7 | 80 | 300 | 1 | 80 | 500 | 1 | 80 | 500 | 1.1 | 33 | 0.25 U | 0.24 U | 0.24 U | 200 | 3.2 | 1.6 U | 3.9 | 1.1 U | 0.24 U | 200 | 3.2 U | 0.33 U | 1.3 U | 0.75 |
| Polychlorinated Biphenyls (PCBs) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1221 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1232 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1242 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1248 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1254 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.042 | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.162 | 0.325 | 0.0384 U |
| Aroclor 1260 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0607 | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0823 | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.133 | 0.145 | 0.0384 U |
| Aroclor 1262 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 0.526 U | 0.0536 U | 0.0449 U | 0.0384 U |
| Aroclor 1268 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0372 U | 0.0398 U | 0.0402 U | 0.0392 U | 0.039 U | 0.11 U | 0.0472 U | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 2.96 | 0.0832 | 0.317 | 0.0384 U |
| PCBs, Total | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 0.0607 | 0.0398 U | 0.0402 U | 0.0392 U | 0.042 | 0.11 U | 0.0823 | 0.0524 U | 0.0873 U | 0.0366 U | 0.0395 U | 0.2 U | 2.96 | 0.378 | 0.787 | 0.0384 U |
| Total Metals | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | 20 | 20 | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 13.7 | 9.48 | 2.5 U | 2.35 U | 2.42 U | 6.54 U | 27.6 | 6.11 | 7.83 | 6.23 | 2.37 U | 11.4 U | 11.2 | 3.29 U | 2.63 U | 2.26 U |
| Arsenic | 20 | 20 | 20 | 20 | 20 | 20 | 50 | 50 | 50 | 18.4 | 23.3 | 1.57 | 1.79 | 2.33 | 2.73 | 12.2 | 5.77 | 4.42 | 7.55 | 1.61 | 9.85 | 42.2 | 7.18 | 18.5 | 3.84 |
| Barium | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 943 | 339 | 632 | 595 | 1130 | 132 | 484 | 15600 | 3520 | 658 | 26.8 | 294 | 454 | 8860 | 5300 | 676 |
| Beryllium | 90 | 90 | 90 | 200 | 200 | 200 | 200 | 200 | 200 | 0.213 U | 0.234 U | 0.25 U | 0.235 U | 0.242 U | 0.654 U | 0.285 U | 0.545 | 0.51 U | 0.229 U | 0.237 U | 1.14 U | 0.639 U | 0.329 | 0.273 | 0.276 |
| Cadmium | 70 | 70 | 70 | 100 | 100 | 100 | 100 | 100 | 100 | 0.426 U | 37.2 | 8 | 0.499 | 0.484 U | 4.48 | 38.7 | 2.64 | 1.64 | 13.3 | 0.473 U | 4.99 | 62.8 | 5.96 | 2.66 | 0.805 |
| Chromium | 100 | 100 | 100 | 200 | 200 | 200 | 200 | 200 | 200 | 3200 | 102 | 6.12 | 8.37 | 5.45 | 18.5 | 104 | 348 | 84.5 | 79.3 | 23.6 | 54 | 139 | 86.3 | 391 | 8.21 |
| Chromium XI | 100 | 100 | 100 | 200 | 200 | 200 | 200 | 200 | 200 | 4.5 U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | 200 | 200 | 200 | 600 | 600 | 600 | 600 | 600 | 600 | 4270 | 1370 | 61.2 | 76 | 62.9 | 274 | 690 | 5150 | 389 | 2970 | 2.37 U | 280 | 733 | 747 | 4660 | 220 |
| Nickel | 600 | 600 | 600 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 145 | 79.4 | 10.8 | 4.99 | 4.62 | 10.5 | 54.5 | 65 | 34.7 | 26.2 | 7.04 | 11.8 | 135 | 29 | 21.3 | 6.27 |
| Selenium | 400 | 400 | 400 | 700 | 700 | 700 | 700 | 700 | 700 | 12.3 | 2.34 U | 2.5 U | 2.35 U | 2.42 U | 6.54 U | 4.93 | 12.3 | 6.89 | 4.13 | 2.37 U | 11.4 U | 8.3 | 4.01 | 2.63 U | 2.26 U |
| Silver | 100 | 100 | 100 | 200 | 200 | 200 | 200 | 200 | 200 | 1 | 1.18 | 0.5 U | 0.471 U | 0.484 U | 1.31 U | 0.571 U | 0.619 U | 1.02 U | 0.458 U | 0.473 U | 2.29 U | 1.28 U | 2.21 | 0.526 U | 0.452 U |
| Thallium | 8 | 8 | 8 | 60 | 60 | 60 | 80 | 80 | 80 | 2.13 U | 2.34 U | 2.5 U | 2.35 U | 2.42 U | 6.54 U | 2.85 U | 3.1 U | 5.1 U | 2.29 U | 2.37 U | 11.4 U | 6.39 U | 3.29 U | 2.63 U | 2.26 U |
| Vanadium | 400 | 400 | 400 | 700 | 700 | 700 | 700 | 700 | 700 | 854 | 37.3 | 6.54 | 12.8 | 5.82 | 9.34 | 39.8 | 143 | 33.4 | 36.4 | 14.6 | 30.2 | 70.4 | 33.4 | 20.4 | 11.4 |
| Zinc | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 303 | 910 | 942 | 54 | 53.2 | 648 | 1510 | 807 | 400 | 7430 | 10.8 | 450 | 1380 | 294 | 367 | 120 |

U = Analyzed but not found; detection limit listed

NA = Not Analyzed for Indicated Parameter

= Yellow shade Indicates an exceedances of MCP S-1; GW-1, GW-2 or GW-3 Method 1 Standard

= Blue Hatching Indicates an exceedances of MCP S-2; GW-1, GW-2 or GW-3 Method 1 Standard

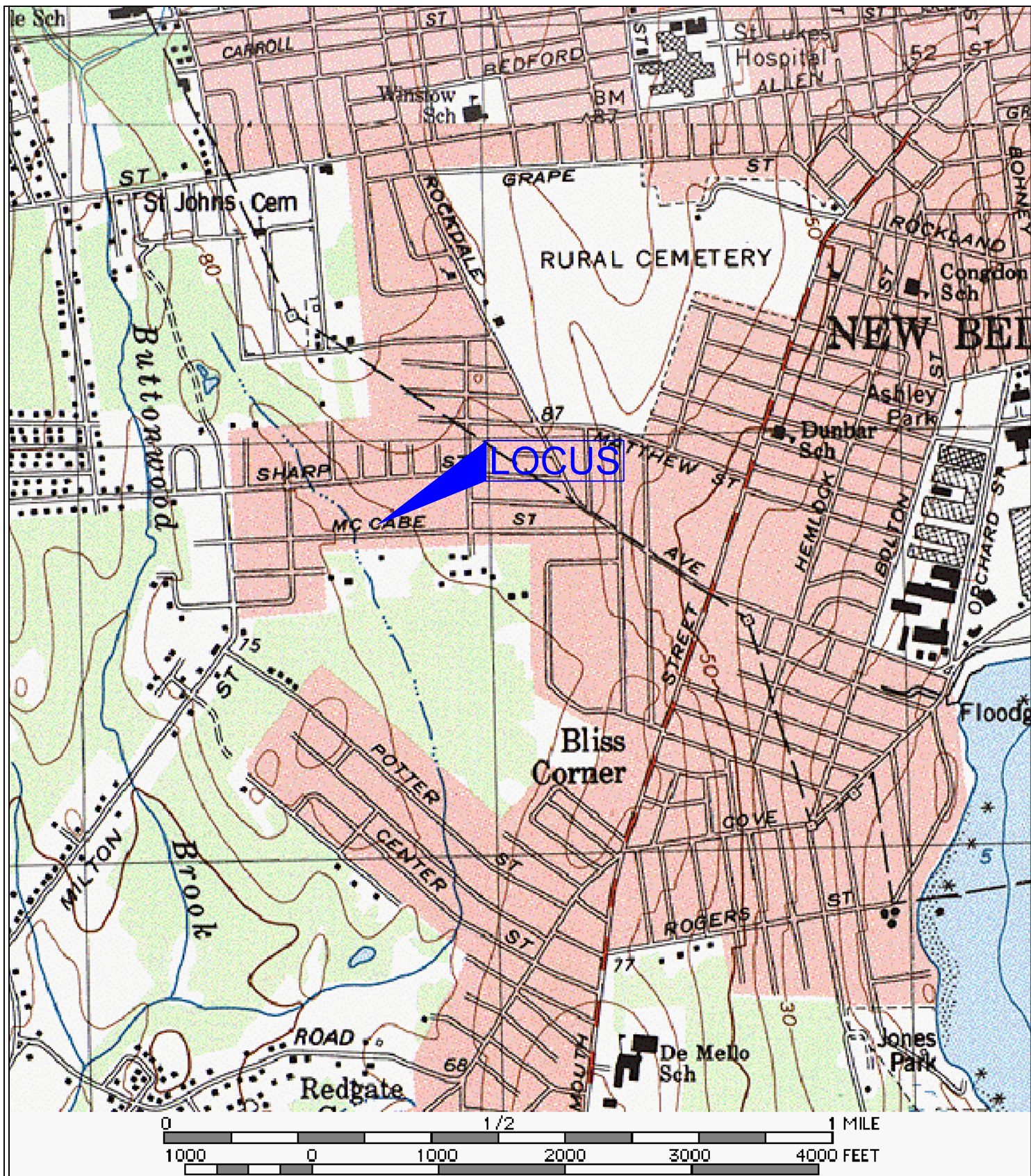
7390

 = Red Text Indicates an exceedances of MCP S-3; GW-1, GW-2 or GW-3 Method 1 Standard

FIGURES

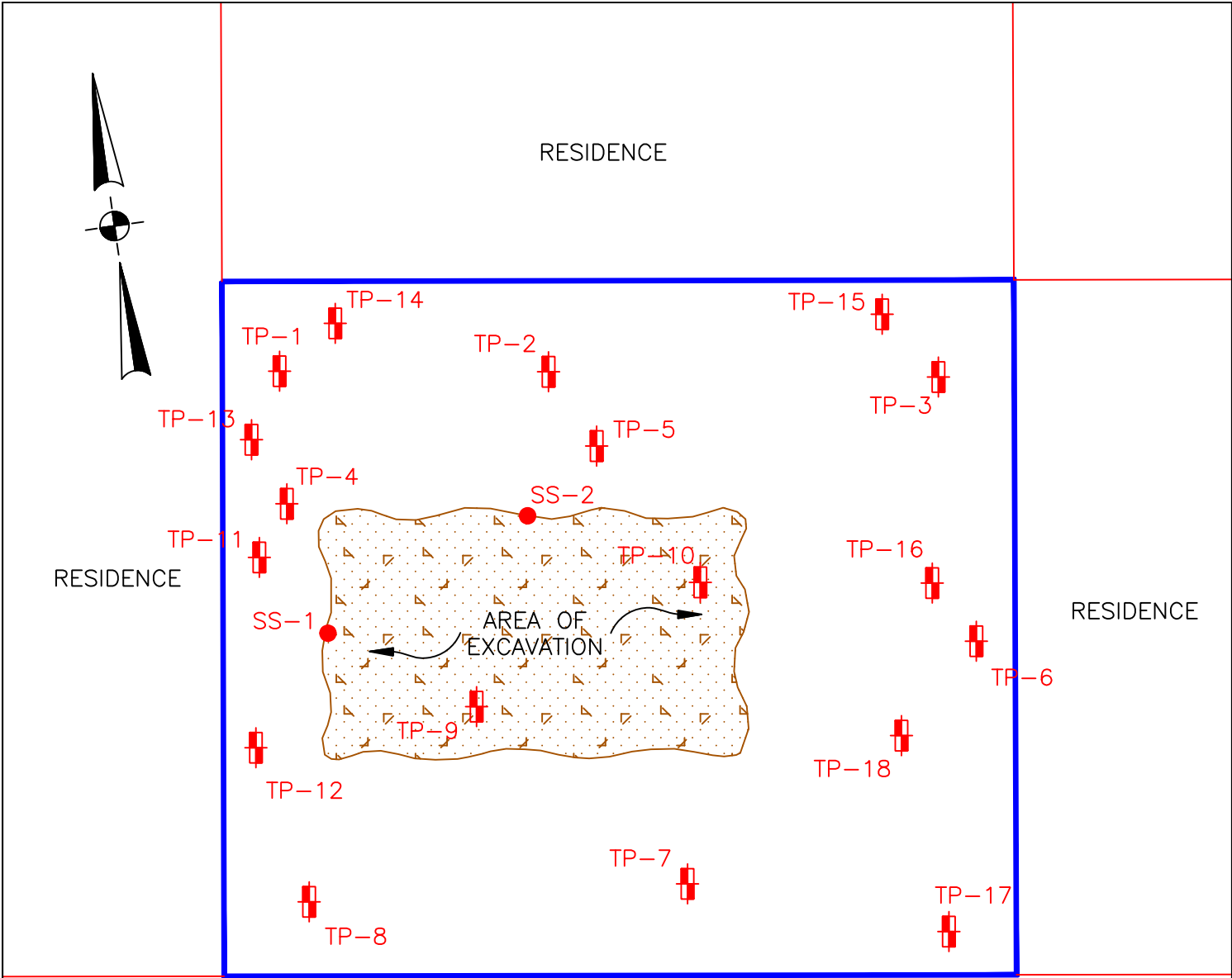
FIGURE 1 - LOCUS MAP

FIGURE 2 - SITE SKETCH



BASE IMAGE: USGS TOPOGRAPHIC MAP – NEW BEDFORD SOUTH 1977

| | | |
|---------------------|--|---|
| FIGURE 1 | LOCUS MAP | SITEC ENVIRONMENTAL 769 Plain Street, Unit C Marshfield, MA 02050 Tel. (781) 319-0100 FAX (781) 834-4783 |
| <i>appx. scale:</i> | | |
| AS SHOWN | 85 MCCABE STREET DARTMOUTH, MASSACHUSETTS | |



McCABE STREET

LEGEND

- PROPERTY LINE
- SOIL SAMPLE LOCATION
- ⊕ TEST PIT LOCATION

| | | |
|-------------------------------------|--|---|
| FIGURE 2 | SITE SKETCH | SITEC ENVIRONMENTAL 769 Plain Street, Unit C Marshfield, MA 02050 Tel. (781) 319-0100 FAX (781) 834-4783 |
| <i>appx. scale:</i> 1" = 20' | 85 McCABE STREET DARTMOUTH, MASSACHUSETTS | |

ATTACHMENT 1

LABORATORY REPORT (VISCOUS BLACK PETROLEUM SUBSTANCE)



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1834277 |
| Client: | Sitec Environmental, Inc. 769 Plain Street Unit C Marshfield, MA 02050 |
| ATTN: | Geoff Souza |
| Phone: | (781) 319-0100 |
| Project Name: | MCCABE ST. |
| Project Number: | SE18-1375 |
| Report Date: | 09/11/18 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1834277-01 | DRUM-1 | SOIL | Not Specified | 08/28/18 09:30 | 08/30/18 |
| L1834277-02 | DRUM-2 | SOIL | Not Specified | 08/28/18 10:00 | 08/30/18 |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

Case Narrative (continued)

Petroleum Hydrocarbon Identification by GC-FID

L1834277-01 and -02: The sample was extracted and then analyzed using a gas chromatograph equipped with a flame ionization detector (GC/FID). The temperature program and associated experimental conditions were optimized to obtain maximum resolution in an eighty minute chromatographic run representative of hydrocarbons in the n-Octane (C8) to n-Tetracontane (C40) range. Qualitative evaluation of the sample was conducted by reviewing the sample chromatogram in conjunction with a chromatogram of a normal alkane series generated with the same chromatographic conditions. Chromatograms of hydrocarbon reference materials obtained from our library of 74 reference standards were also utilized to provide the best possible sample match. Quantitative determination of the sample's hydrocarbon concentration was performed in accordance with EPA Method 8015M. The sample's total hydrocarbon concentration and all associated quality control data are included in the report.

The following qualitative information is based on a tentative interpretation of chromatographic pattern recognition and boiling point ranges:

Total Petroleum Identification

L1834277-01 and -02 contain hydrocarbons eluting in the range of n-Nonane (C9) to after the elution of n-Tetracontane (C40).

Based on the data generated, L1834277-01 and -02 contain material eluting in the low, mid, to heavy molecular weight ranges of the chromatogram. The material appears to be similar to a coal tar/creosote.

L1834277-01 and -02: The surrogate recovery is outside the acceptance criteria for d50-tetracosane (224% and 225%, respectively); however, the sample was not re-extracted due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

PCBs

L1834277-01 and -02: The sample has elevated detection limits due to the dilution required by the sample matrix.

L1834277-01: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 09/11/18

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834277-01
 Client ID: DRUM-1
 Sample Location: Not Specified

Date Collected: 08/28/18 09:30
 Date Received: 08/30/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/07/18 01:16
 Analyst: TS
 Percent Solids: 67%

Extraction Method: ALPHA OP-013
 Extraction Date: 09/03/18 08:11

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|------------|-----------|-----------|---------------------|-----|-----------------|
| Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab | | | | | | |
| Total Petroleum Hydrocarbons (C9-C44) | 363000 | | mg/kg | 3210 | -- | 1 |
| Surrogate | % Recovery | | Qualifier | Acceptance Criteria | | |
| o-Terphenyl | 90 | | | 50-130 | | |
| d50-Tetracosane | 224 | | Q | 50-130 | | |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

SAMPLE RESULTS

Lab ID: L1834277-02
 Client ID: DRUM-2
 Sample Location: Not Specified

Date Collected: 08/28/18 10:00
 Date Received: 08/30/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/07/18 02:44
 Analyst: TS
 Percent Solids: 56%

Extraction Method: ALPHA OP-013
 Extraction Date: 09/03/18 08:11

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|------------|-----------|-----------|---------------------|-----|-----------------|
| Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab | | | | | | |
| Total Petroleum Hydrocarbons (C9-C44) | 526000 | | mg/kg | 4710 | -- | 1 |
| Surrogate | % Recovery | | Qualifier | Acceptance Criteria | | |
| o-Terphenyl | 94 | | | 50-130 | | |
| d50-Tetracosane | 225 | | Q | 50-130 | | |

Project Name: MCCABE ST.

Lab Number: L1834277

Project Number: SE18-1375

Report Date: 09/11/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8015D(M)
 Analytical Date: 09/06/18 19:24
 Analyst: TS

Extraction Method: ALPHA OP-013
 Extraction Date: 09/03/18 08:11

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-----|
| Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG1153156-1 | | | | | |
| Total Petroleum Hydrocarbons (C9-C44) | ND | | mg/kg | 2.20 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------|-----------|-----------|------------------------|
| o-Terphenyl | 89 | | 50-130 |
| d50-Tetracosane | 94 | | 50-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1834277

Report Date: 09/11/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01-02 Batch: WG1153156-2 WG1153156-3 | | | | | | | | |
| Nonane (C9) | 73 | | 70 | | 50-130 | 4 | | 30 |
| Decane (C10) | 78 | | 72 | | 50-130 | 8 | | 30 |
| Dodecane (C12) | 85 | | 79 | | 50-130 | 7 | | 30 |
| Tetradecane (C14) | 88 | | 82 | | 50-130 | 7 | | 30 |
| Hexadecane (C16) | 93 | | 88 | | 50-130 | 6 | | 30 |
| Octadecane (C18) | 97 | | 94 | | 50-130 | 3 | | 30 |
| Nonadecane (C19) | 92 | | 90 | | 50-130 | 2 | | 30 |
| Eicosane (C20) | 93 | | 91 | | 50-130 | 2 | | 30 |
| Docosane (C22) | 92 | | 92 | | 50-130 | 0 | | 30 |
| Tetracosane (C24) | 95 | | 96 | | 50-130 | 1 | | 30 |
| Hexacosane (C26) | 90 | | 92 | | 50-130 | 2 | | 30 |
| Octacosane (C28) | 89 | | 93 | | 50-130 | 4 | | 30 |
| triacontane (C30) | 88 | | 93 | | 50-130 | 6 | | 30 |
| Hexatriacontane (C36) | 85 | | 93 | | 50-130 | 9 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------|------------------|------|-------------------|------|------------------------|
| o-Terphenyl | 94 | | 90 | | 50-130 |
| d50-Tetracosane | 92 | | 94 | | 50-130 |

PCBS

Project Name: MCCABE ST.**Lab Number:** L1834277**Project Number:** SE18-1375**Report Date:** 09/11/18**SAMPLE RESULTS**

Lab ID: L1834277-01 D

Date Collected: 08/28/18 09:30

Client ID: DRUM-1

Date Received: 08/30/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8082A

Extraction Date: 09/06/18 17:39

Analytical Date: 09/07/18 13:46

Cleanup Method: EPA 3665A

Analyst: AWS

Cleanup Date: 09/06/18

Percent Solids: 67%

Cleanup Method: EPA 3660B

Cleanup Date: 09/06/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1221 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1232 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1242 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1248 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1254 | 3770 | | ug/kg | 2630 | -- | 20 | B |
| Aroclor 1260 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1262 | ND | | ug/kg | 2630 | -- | 20 | A |
| Aroclor 1268 | ND | | ug/kg | 2630 | -- | 20 | A |
| PCBs, Total | 3770 | | ug/kg | 2630 | -- | 20 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | B |
| Decachlorobiphenyl | 0 | Q | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 0 | Q | 30-150 | A |
| Decachlorobiphenyl | 0 | Q | 30-150 | A |

Project Name: MCCABE ST.**Lab Number:** L1834277**Project Number:** SE18-1375**Report Date:** 09/11/18**SAMPLE RESULTS**

Lab ID: L1834277-02 D

Date Collected: 08/28/18 10:00

Client ID: DRUM-2

Date Received: 08/30/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8082A

Extraction Date: 09/03/18 11:02

Analytical Date: 09/06/18 18:10

Cleanup Method: EPA 3665A

Analyst: AWS

Cleanup Date: 09/04/18

Percent Solids: 56%

Cleanup Method: EPA 3660B

Cleanup Date: 09/04/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-----|-----|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1221 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1232 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1242 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1248 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1254 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1260 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1262 | ND | | ug/kg | 831 | -- | 5 | A |
| Aroclor 1268 | ND | | ug/kg | 831 | -- | 5 | A |
| PCBs, Total | ND | | ug/kg | 831 | -- | 5 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 37 | | 30-150 | B |
| Decachlorobiphenyl | 54 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 35 | | 30-150 | A |
| Decachlorobiphenyl | 44 | | 30-150 | A |

Project Name: MCCABE ST.

Lab Number: L1834277

Project Number: SE18-1375

Report Date: 09/11/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/06/18 14:43
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/03/18 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1153177-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 32.5 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 32.5 | -- | A |
| PCBs, Total | ND | | ug/kg | 32.5 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | B |
| Decachlorobiphenyl | 68 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 67 | | 30-150 | A |

Project Name: MCCABE ST.

Lab Number: L1834277

Project Number: SE18-1375

Report Date: 09/11/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/07/18 00:46
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/06/18 17:39
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/06/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-----|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1154343-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 31.4 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 31.4 | -- | A |
| PCBs, Total | ND | | ug/kg | 31.4 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | B |
| Decachlorobiphenyl | 86 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | A |
| Decachlorobiphenyl | 88 | | 30-150 | A |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1834277

Report Date: 09/11/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1153177-2 WG1153177-3 | | | | | | | | | |
| Aroclor 1016 | 63 | | 70 | | 40-140 | 11 | | 50 | A |
| Aroclor 1260 | 60 | | 68 | | 40-140 | 13 | | 50 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 72 | | 30-150 | B |
| Decachlorobiphenyl | 67 | | 72 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 68 | | 30-150 | A |
| Decachlorobiphenyl | 67 | | 72 | | 30-150 | A |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1834277

Report Date: 09/11/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154343-2 WG1154343-3 | | | | | | | | | |
| Aroclor 1016 | 65 | | 74 | | 40-140 | 13 | | 50 | A |
| Aroclor 1260 | 69 | | 74 | | 40-140 | 7 | | 50 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 79 | | 30-150 | B |
| Decachlorobiphenyl | 74 | | 83 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 68 | | 78 | | 30-150 | A |
| Decachlorobiphenyl | 76 | | 85 | | 30-150 | A |

INORGANICS & MISCELLANEOUS

Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1834277**Report Date:** 09/11/18**SAMPLE RESULTS****Lab ID:** L1834277-01**Client ID:** DRUM-1**Sample Location:** Not Specified**Date Collected:** 08/28/18 09:30**Date Received:** 08/30/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 66.8 | | % | 0.100 | NA | 1 | - | 08/31/18 12:13 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1834277**Report Date:** 09/11/18**SAMPLE RESULTS****Lab ID:** L1834277-02**Client ID:** DRUM-2**Sample Location:** Not Specified**Date Collected:** 08/28/18 10:00**Date Received:** 08/30/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 55.5 | | % | 0.100 | NA | 1 | - | 08/31/18 12:13 | 121,2540G | RI |



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1834277**Report Date:** 09/11/18

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1152641-1 QC Sample: L1834502-04 Client ID: DUP Sample | | | | | | |
| Solids, Total | 83.3 | 81.6 | % | 2 | | 20 |

Project Name: MCCABE ST.**Lab Number:** L1834277**Project Number:** SE18-1375**Report Date:** 09/11/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L1834277-01A | Glass 250ml/8oz unpreserved | A | NA | | 3.8 | Y | Absent | | PCB-8082(14),TS(7) |
| L1834277-01X | Glass 60ml unpreserved split | A | NA | | 3.8 | Y | Absent | | A2-PHI(14) |
| L1834277-02A | Glass 250ml/8oz unpreserved | A | NA | | 3.8 | Y | Absent | | PCB-8082(14),TS(7) |
| L1834277-02X | Glass 60ml unpreserved split | A | NA | | 3.8 | Y | Absent | | A2-PHI(14) |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

GLOSSARY

Acronyms

| | |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name: MCCABE ST.**Lab Number:** L1834277**Project Number:** SE18-1375**Report Date:** 09/11/18**Data Qualifiers**

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1834277
Report Date: 09/11/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: SITEC Environmental
Address: 769 Plain St, Unit C
Mansfield, MA 02020
Phone: 781-319-0100
Email: gsouza@sitecenv.com

Additional Project Information:

Project Information

Project Name: McLabe st

Project Location:

Project #: SE18-1375

Project Manager: Geoff Souza

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Date Rec'd in Lab: 8/30/18

ALPHA Job #: L1834277

Report Information - Data Deliverables

☒ ADEx ☐ EMAIL☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
 ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program

Criteria

[illegible]

SAMPLE INFO

Filtration
☐ Field
☐ Lab to do

Preservation
☐ Lab to do

Sample Comments

TOTAL # BOTTLES

[illegible]

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₅
I = Ascorbic Acid
J = NH₄Cl
K = Zn Acetate
O = Other

Container Type

Preservative

Relinquished By:

Date/Time

Received By _____

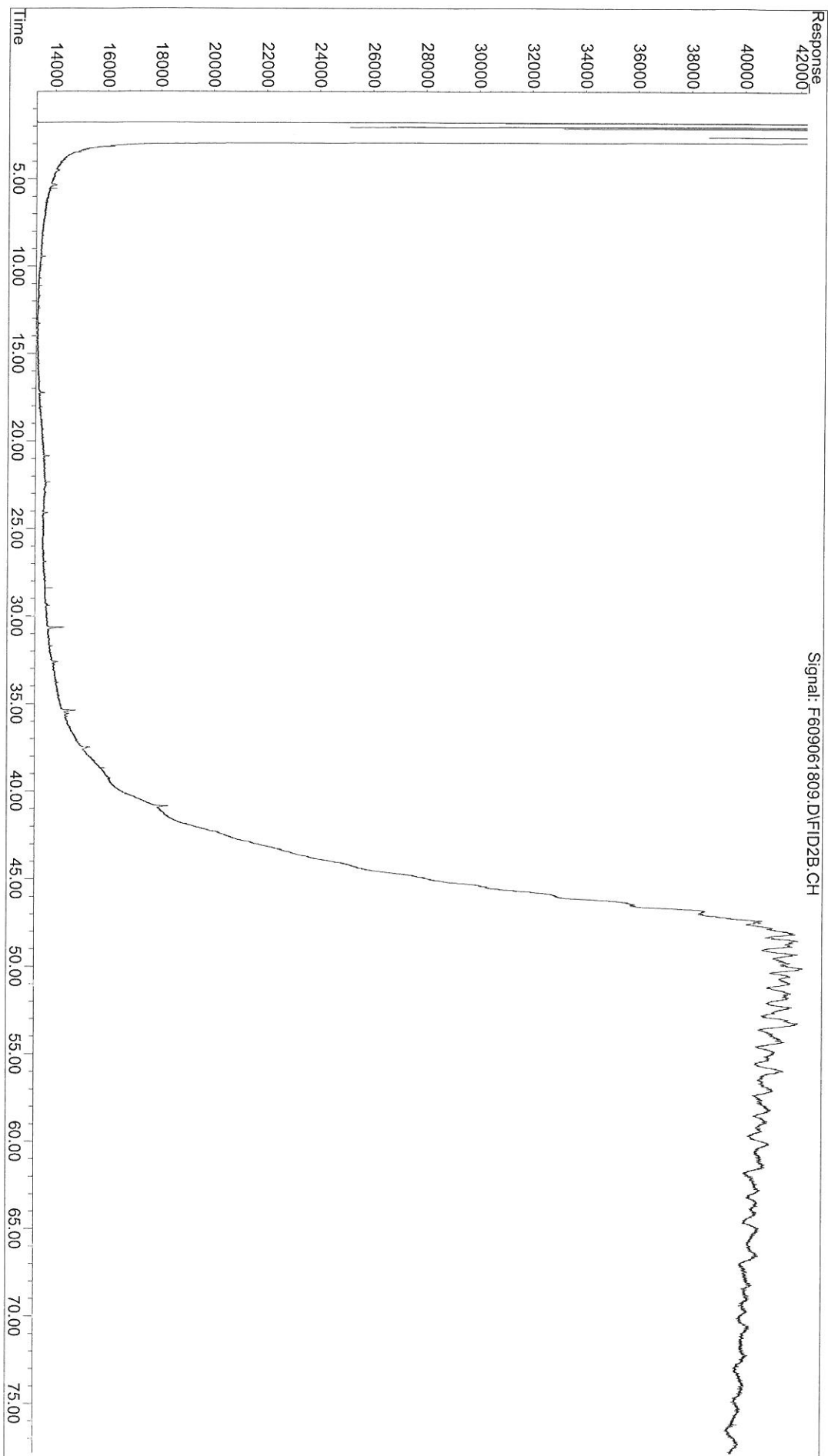
Date/Time

All samples submitted are subject to Alpha's Terms and Conditions.
See reverse side.

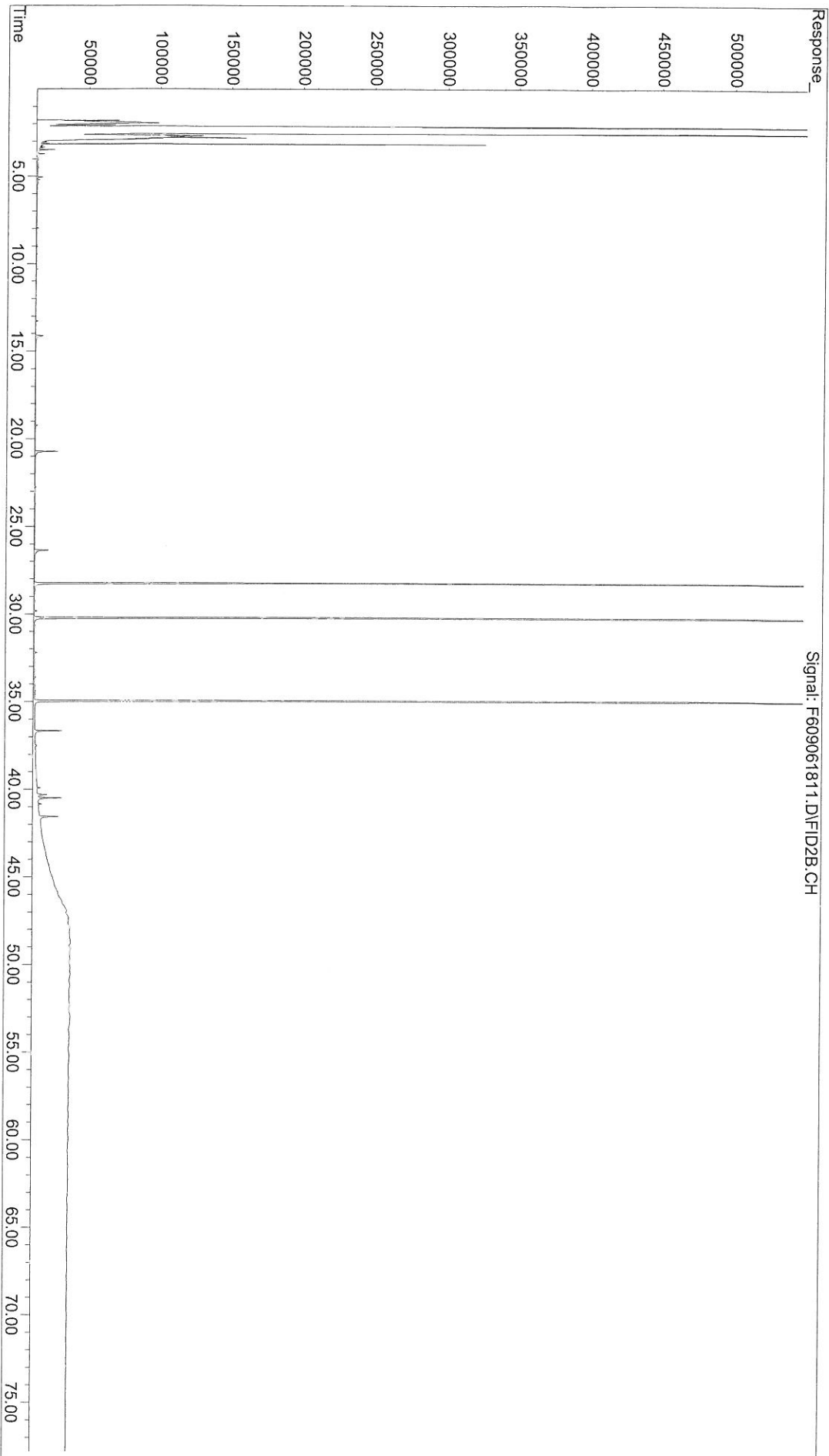
FORM NO. 01-01 (rev. 12-Mar-2012)

GC-FID Chromatogram

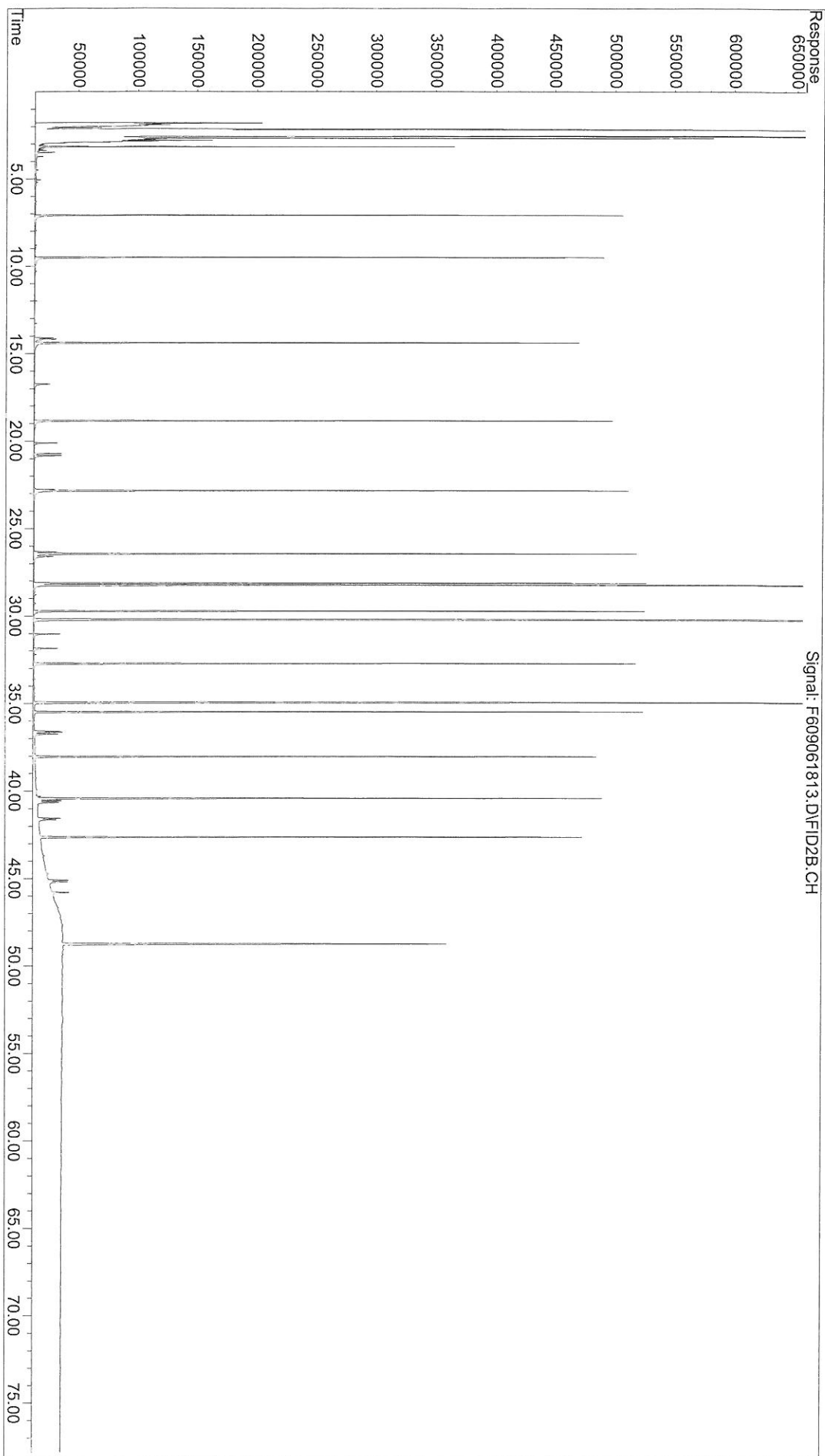
File : O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061809.D
Operator : FID6:TS
Acquired : 06 Sep 2018 5:56 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: IB609061801R
Misc Info :
Vial Number: 55



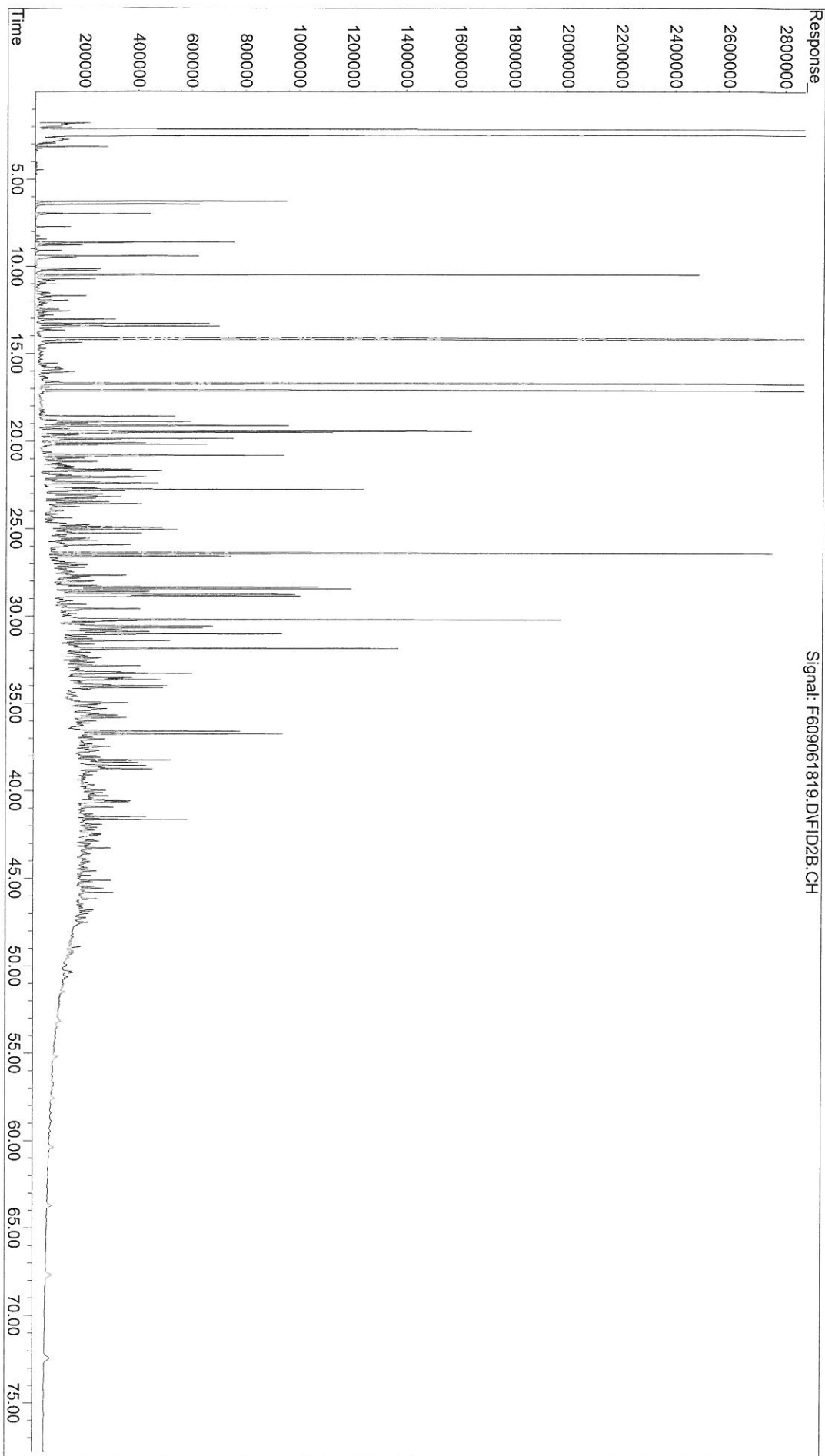
File : O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061811.D
Operator : FID6:TS
Acquired : 06 Sep 2018 7:24 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG1153156-1 (method blank)
Misc Info : WG1154346, WG1153156, ICAL14592
Vial Number: 56



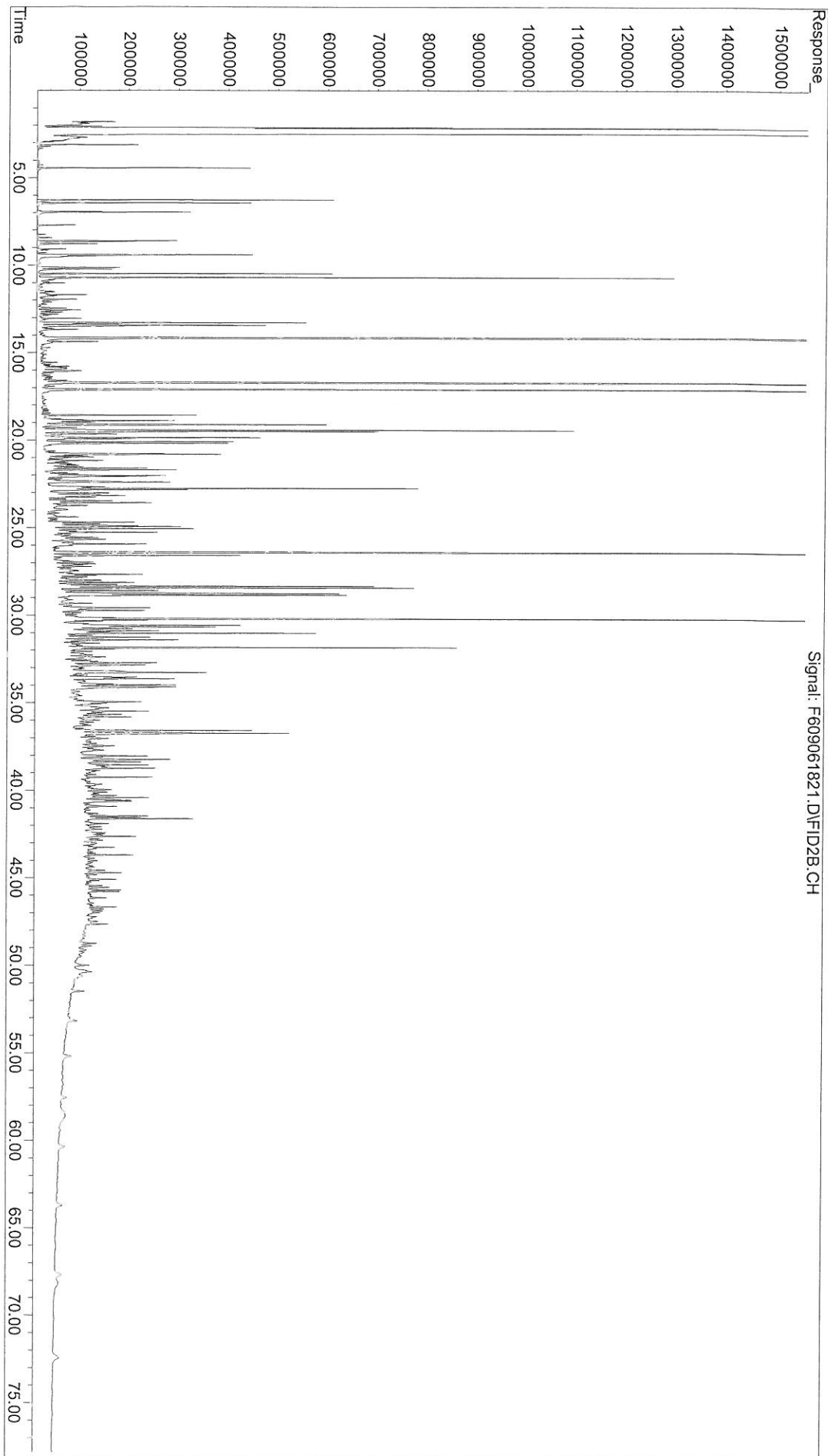
File : O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061813.D
Operator : FID6:TS
Acquired : 06 Sep 2018 8:53 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG1153156-2 (laboratory control sample)
Misc Info : WG1154346, WG1153156, ICAL14592
Vial Number: 57



File :O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061819.D
Operator : FID6:TS
Acquired : 07 Sep 2018 1:16 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1834277-01
Misc Info : WG1154346, WG1153156, ICAL14592
Vial Number: 60

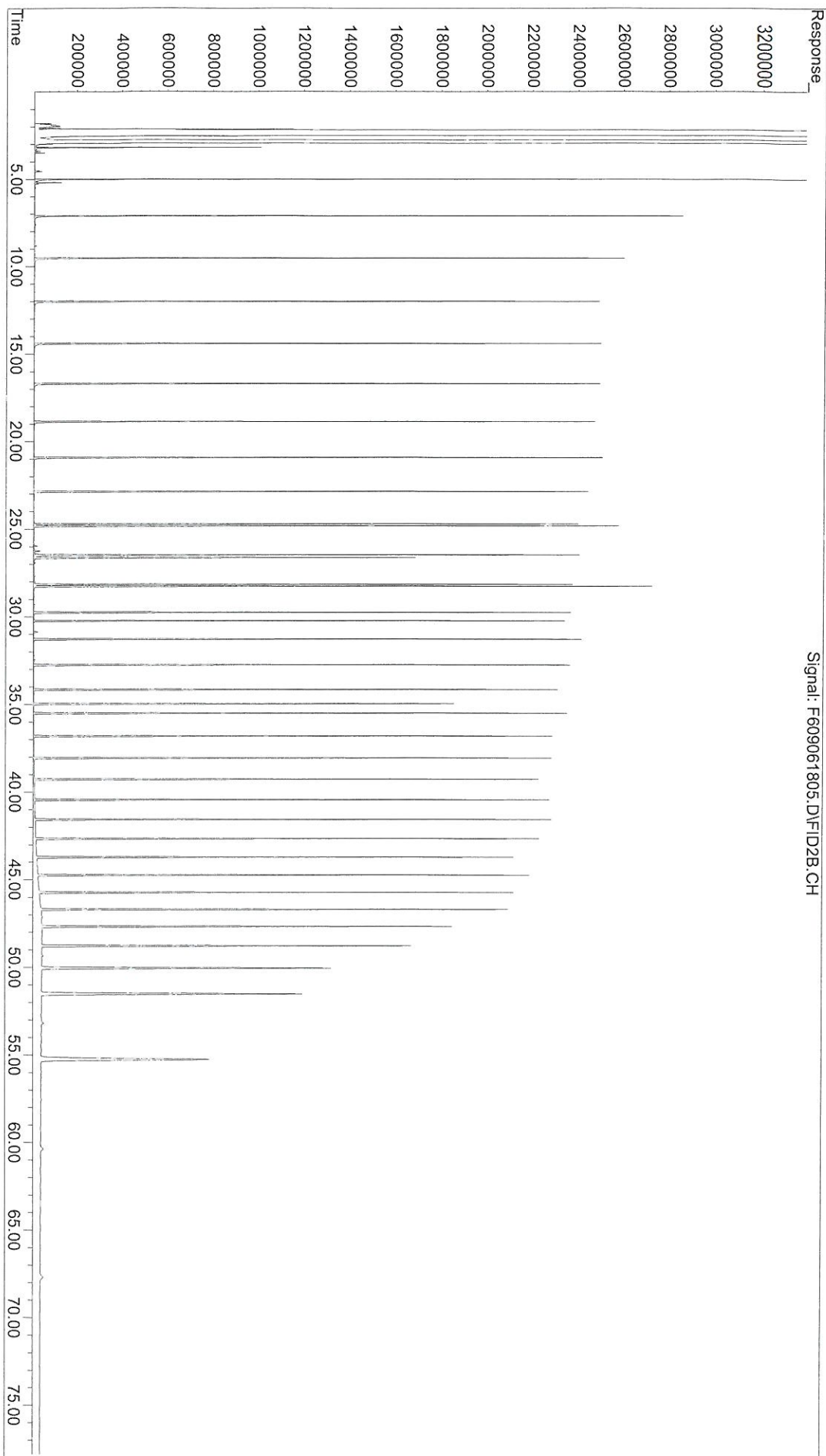


File : O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061821.D
Operator : FID6:TS
Acquired : 07 Sep 2018 2:44 am using AcqMethod FID6A.M
Instrument : FID6
Sample Name: L1834277-02
Misc Info : WG1154346, WG1153156, ICALL14592
Vial Number: 61

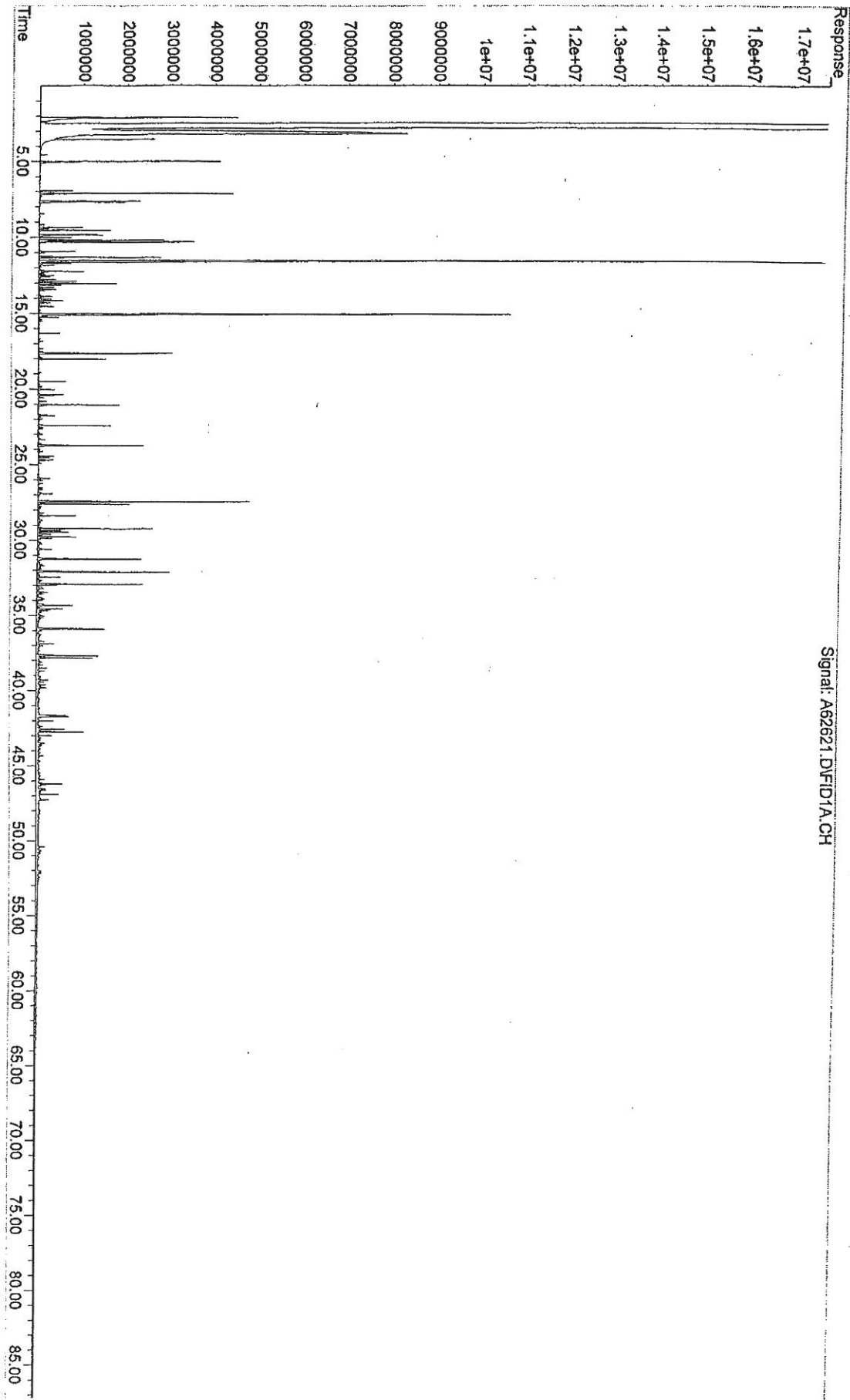


Petroleum Reference Standards

File :O:\Forensics\Data\FID6\2018\SEP\SEP06.SEC\F609061805.D
Operator : FID6:TS
Acquired : 06 Sep 2018 2:58 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: WG1154346-1 (alkane reference standard C9-C40)
Misc Info : WG1154346, FRBA35 50 ug/ml
Vial Number: 53



File : O:\Forensics\Data\FID6\MAR08\MAR18\A62621.D
Operator : NtJr
Acquired : 20 Mar 2008 4:26 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: R603190803
Misc Info : Coal Tar Reference Standard
Vial Number: 34



ATTACHMENT 2

SOIL DISPOSAL DOCUMENTATION



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 112

Release Tracking Number

4 - 27363

BILL OF LADING (pursuant to 310 CMR 40.0030)

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

1. Release Name/Location Aid: RESIDENTIAL LOT
2. Street Address: 85 MCCABE STREET
3. City/Town: DARTMOUTH 4. Zip Code: 027480000
- ☐ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.
☐ a. Tier I ☐ b. Tier ID ☐ c. Tier II

B. THIS FORM IS BEING USED TO: (check one: B1-B4):

- ☒ 1. Submit a **Bill of Lading (BOL)** to transport Remediation Waste to Temporary Storage or a Receiving Facility.
Response Actions associated with this BOL (check all that apply):
☒ a. Immediate Response Action (IRA) ☐ e. Comprehensive Response Actions
☐ b. Release Abatement Measure (RAM) ☐ f. Limited Removal Action (LRA): (must be retained pursuant to 310 CMR 40.0034(6); can't be submitted via eDEP)
☐ c. Downgradient Property Status (DPS) ☐ g. Other _____
☐ d. Utility Release Abatement Measure (URAM)
- ☐ 2. Submit an Attestation of Completion of **Shipment to Temporary Storage** (Sections C, F and J are not required):
- ☐ 3. Submit an Attestation of **Completion of Shipment to a Receiving Facility** (Sections C, F and J are not required):
- ☐ 4. Certify that Remediation Waste Was **Not Shipped, and the Bill of Lading is Void**. (Sections C, D, E, and F are not required)
5. Date Bill of Lading submitted to the Department: _____ b. eDEP Transaction ID: _____
(mm/dd/yyyy)
6. Period of Generation Associated with this Bill of Lading 7/30/2018 to 7/30/2018
(mm/dd/yyyy) (mm/dd/yyyy)

(All sections of this transmittal form must be filled out unless otherwise noted above)

The Bill of Lading is not considered complete until the Attestation of Completion of Shipment is received by the Department.

C. DESCRIPTION OF WASTE AND WASTE SOURCE:

1. Contaminated Media/Debris (check all that apply):
☒ a. Soil ☐ b. Groundwater ☐ c. Surface Water ☐ d. Sediment ☐ e. Vegetation or Organic Debris
☐ f. Demolition/Construction Waste ☐ g. Inorganic Absorbent Materials ☐ h. Other: _____
2. Uncontainerized Waste (check all that apply):
☐ a. Inorganic Absorbent Materials ☐ b. Other: _____



C. DESCRIPTION OF WASTE AND WASTE SOURCE (cont.):

3. Containerized Waste (check all that apply):

☐ a. Tank Bottoms/Sludges ☐ b. Containers ☐ c. Drums ☐ d. Engineered Impoundments

☐ e. Other: _____

4. Estimated Quantity: 200 ☐ Tons ☒ Cu. Yds. ☐ Gallons

5. Contaminant Source (check one):

☐ a. Transportation Accident ☐ b. Underground Storage Tank ☐ c. Brownfields Redevelopment

☒ d. Other: DUMPING

6. Type of Contaminant (check all that apply):

☐ a. Gasoline ☐ b. Diesel Fuel ☐ c. #2 Fuel Oil ☐ d. #4 Fuel Oil ☐ e. #6 Fuel Oil ☐ f. Jet Fuel

☐ g. Waste Oil ☐ h. Kerosene ☐ i. Chlorinated Solvents ☐ j. Urban Fill ☒ k. Other: VISCOUS PETROLEUM-BASED LIQUID

7. Constituents of Concern (check all that apply):

☐ a. As ☐ b. Cd ☐ c. Cr ☐ d. Pb ☐ e. Hg ☒ f. EPH/TPH ☐ g. VPH

☐ h. PCBs ☐ i. VOCs ☐ j. SVOCs ☐ k. Other: _____

8. If applicable, check the box for the Reportable Concentration Category of the site:

☒ a. RCS-1 ☐ b. RCS-2 ☐ c. RCGW-1 ☒ d. RCGW-2

9. Remediation Waste Characterization Documentation (check at least one):

☒ a. Site History Information ☒ b. Sampling Analytical Methods and Procedures ☒ c. Laboratory Data

☐ d. Field Screening Data ☐ e. Characterization Documentation previously submitted to the Department

i. Date submitted: _____

ii. Type of Documentation: _____

(mm/dd/yyyy)

D. TRANSPORTER OR COMMON CARRIER INFORMATION:

1. Transporter/Common Carrier Name: W.L. FRENCH EXCAVATING CORP

2. Contact First Name: CHRIS

3. Last Name: PAULINO

4. Street: 3 SURVEY CIRCLE

5. Title: _____

6. City/Town: NORTH BILLERICA

7. State: MA

8. Zip Code: 018620000

9. Telephone: 9786632623

10. Ext: _____

11. Email: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40.0030)

BWSC 112

Release Tracking Number

4 - 27363

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

1. Operator/Facility Name: ONDRICK MATERIALS & RECYCLING,

2. Contact First Name: DAVID 3. Last Name: COSTANZO

4. Street: 22 INDUSTRY ROAD 5. Title: ENVIRONMENTAL DIVISION MANAGER

6. City/Town: CHICOPEE 7. State: MA 8. Zip Code: 010200000

9. Telephone: 4135922566 10. Ext: 11. Email:

12. Type of facility: (check one)

a. Temporary Storage i. Period of Temporary Storage to
(mm/dd/yyyy) (mm/dd/yyyy)

ii. Reason for Temporary Storage:

☐ b. Asphalt Batch/Hot Mix ☐ c. Landfill/Disposal ☐ d. Landfill/Structural Fill ☐ e. Landfill/Daily Cover

☒ f. Asphalt Batch/Cold Mix ☐ g. Thermal Processing ☐ h. Incinerator ☐ i. Other:

13. Division of Hazardous Waste/Class A Permit Number: X258844

14. Division of Solid Waste Permit Number:

15. EPA Identification Number: MAR000529677

F. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief, the assessment action(s) undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 4122

2. First Name: GEOFFREY 3. Last Name: SOUZA

4. Telephone: 7813190100 5. Ext: 11 6. Email:

7. Signature: GEOFFREY SOUZA

8. Date: 9/25/2018
(mm/dd/yyyy)

9. LSP Stamp:





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40.0030)

BWSC 112

Release Tracking Number

4 - 27363

G. PERSON SUBMITTING BILL OF LADING:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☒ c. change in the person undertaking response actions
2. Name of Organization: TERCEIRA CONSTRUCTION
3. Contact First Name: JORGE 4. Last Name: VERISSIMO
5. Street: 1 COOKIE WAY 6. Title: _____
7. City/Town: DARTMOUTH 8. State: MA 9. Zip Code: 027480000
10. Telephone: 7742631292 11. Ext: _____ 12. Email: _____

H. RELATIONSHIP TO SITE OF PERSON SUBMITTING BILL OF LADING:

☐ Check here to change relationship

- ☒ 1. RP or PRP ☒ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter
- ☐ e. Other RP or PRP Specify: _____
- ☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- ☐ 4. Any Other Person Undertaking Response Actions: Specify Relationship: _____

I. REQUIRED ATTACHMENT AND SUBMITTALS:

- ☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approvals issued by DEP or EPA. If the box is checked, you must attach a statement identifying the applicable provisions thereof.
- ☐ 2. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us
- ☒ 3. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING:

1. I, SITEC ENVIRONMENTAL, INC., attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: SITEC ENVIRONMENTAL, INC. 3. Title: _____
4. For: TERCEIRA CONSTRUCTION 5. Date: 9/25/2018
- (Name of person or entity recorded in Section G) (mm/dd/yyyy)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING (pursuant to 310 CMR 40.0030)

BWSC 112

Release Tracking Number

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J. CERTIFICATION OF PERSON SUBMITTING BILL OF LADING (cont.) :

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section G.

7. Street: _____

8. City/Town: _____

9. State: _____

10. Zip Code: _____

11. Telephone: _____

12. Ext: _____

13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (MassDEP USE ONLY):

Received by DEP on 9/25/2018 4:43:17 PM

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket**302759**

9/27/18

11:34 AM

Truck ID LAROCHELLE LAROCHELLE
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.**Product** OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 107660 Lb | * |
| Tare | 35800 Lb | * |
| Net | 35.93 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 1 | 1 |
| Qty | 35.93 | 35.93 |

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket**302760**

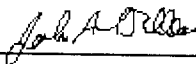
9/27/18

11:37 AM

Truck ID LAROCHELLE2 LAROCHELLE2
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.**Product** OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: 

Customer: _____

Arrival Time: _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 104680 Lb | * |
| Tare | 33500 Lb | * |
| Net | 35.59 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 2 | 2 |
| Qty | 71.52 | 71.52 |

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket**302763**

9/27/18

12:01 PM

Truck ID FRENCH121 FRENCH121
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.**Product** OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: _____**Customer:** _____**Arrival Time:** _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 99180 Lb | * |
| Tare | 35000 Lb | * |
| Net | 32.09 Ton | * |

| | <u>Today</u> | <u>To Date</u> |
|--------------|--------------|----------------|
| Loads | 3 | 3 |
| Qty | 103.61 | 103.61 |

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

9/27/18

302771

12:51 PM

Truck ID FRENCH161 FRENCH161
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.**Product** OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: **Customer:****Arrival Time:** _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 100600 Lb | * |
| Tare | 35600 Lb | * |
| Net | 32.50 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 4 | 4 |
| Qty | 136.11 | 136.11 |

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Release Tracking Number

Page

OF

4 - 27363

I. LOAD INFORMATION:

Load 1:

Signature of Transporter Representative: *[Signature]*
Date of Shipment: 9/27/18 Time of Shipment: 930 ☒ AM ☐ PM
Truck/Tractor Registration: 22643-A Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS
Date of Receipt: 9/27/18 Time of Receipt: 1133 ☒ AM ☐ PM
Load Size (cu. yds./tons): 35.93

Load 2:

Signature of Transporter Representative: *[Signature]*
Date of Shipment: 9/27/18 Time of Shipment: 935 ☒ AM ☐ PM
Truck/Tractor Registration: 59414 Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS
Date of Receipt: 9/27/18 Time of Receipt: 1137 ☒ AM ☐ PM
Load Size (cu. yds./tons): 35.59

Load 3:

Signature of Transporter Representative: *[Signature]*
Date of Shipment: 9/27/18 Time of Shipment: 900 ☒ AM ☐ PM
Truck/Tractor Registration: B 97207 Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS
Date of Receipt: 9/27/18 Time of Receipt: 1200 ☐ AM ☒ PM
Load Size (cu. yds./tons): 32.09

Load 4:

Signature of Transporter Representative: *[Signature]*
Date of Shipment: 9/27/18 Time of Shipment: 1000 ☒ AM ☐ PM
Truck/Tractor Registration: 5936A Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS
Date of Receipt: 9/27/18 Time of Receipt: 1250 ☐ AM ☒ PM
Load Size (cu. yds./tons): 32.50

Load 5:

Signature of Transporter Representative:
Date of Shipment: Time of Shipment: ☐ AM ☐ PM
Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: Time of Receipt: ☐ AM ☐ PM
Load Size (cu. yds./tons):

Load 6:

Signature of Transporter Representative:
Date of Shipment: Time of Shipment: ☐ AM ☐ PM
Truck/Tractor Registration: Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt: Time of Receipt: ☐ AM ☐ PM
Load Size (cu. yds./tons):

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons) 136.11
Total Carried Forward (cu. yds./tons): 0
Total Carried Forward and This Page (cu. yds./tons): 136.11

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

302826

9/28/18

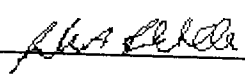
10:05 AM

Truck ID LAROCHELLE LAROCHELLE
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.

Product OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: 

Customer: _____

Arrival Time: _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 105780 Lb | * |
| Tare | 33500 Lb | * |
| Net | 36.14 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 1 | 5 |
| Qty | 36.14 | 172.25 |

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CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. **KNOW & RESPECT THE PRODUCTS YOU HANDLE.**

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

302830

9/28/18

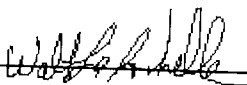
10:17 AM

Truck ID LAROCHELLE2 LAROCHELLE2
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.

Product OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: 

Customer:

Arrival Time: **Depart Time:**

| | | |
|--------------|-----------|---|
| Gross | 104220 Lb | * |
| Tare | 36900 Lb | * |
| Net | 33.66 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 2 | 6 |
| Qty | 69.80 | 205.91 |

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Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

302873


9/28/18

3:38 PM

Truck ID GATOR1 GATOR1
Customer 10125 W. L. French Excavating Corporatio
Order 18-9-14790MA Res. 85 McCabe St Dartmouth MA
P.O.

Product OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: 

Customer: _____

Arrival Time: _____ Depart Time: _____

| | | |
|-------|-----------|---|
| Gross | 104140 Lb | * |
| Tare | 36900 Lb | * |
| Net | 33.62 Ton | * |

| | Today | To Date |
|-------|--------|---------|
| Loads | 3 | 7 |
| Qty | 103.42 | 239.53 |

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Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

302874

9/28/18

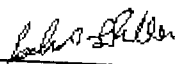
3:41 PM

Truck ID LAROCHELLE LAROCHELLE
Customer 10125 W. L. French Excavating Corporatio
Order 18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.

Product OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: 

Customer: _____

Arrival Time: _____ Depart Time: _____

| | | |
|-------|-----------|---|
| Gross | 99380 Lb | * |
| Tare | 33500 Lb | * |
| Net | 32.94 Ton | * |

| | Today | To Date |
|-------|--------|---------|
| Loads | 4 | 8 |
| Qty | 136.36 | 272.47 |

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Page

OF

Release Tracking Number

4-27363

I. LOAD INFORMATION:

Load 1:

Date of Shipment:

9/29/18

Truck/Tractor Registration:

59414A

Signature of Transporter Representative:

John L. L...

Time of Shipment:

730

☒ AM ☐ PM

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS

Date of Receipt:

9/28/18

Time of Receipt:

1004

☒ AM ☐ PM

Load Size (cu. yds./tons): 36.14

Load 2:

Date of Shipment:

9/28/18

Truck/Tractor Registration:

24597A

Signature of Transporter Representative:

Walter L. R...

Time of Shipment:

735

☒ AM ☐ PM

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

DWS

Date of Receipt:

9/28/18

Time of Receipt:

1015

☒ AM ☐ PM

Load Size (cu. yds./tons): 33.66

Load 3:

Date of Shipment:

09-28-18

Truck/Tractor Registration:

24597A-CT V34877-CT

Signature of Transporter Representative:

Walter L. R...

Time of Shipment:

2:00 PM

☐ AM ☒ PM

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

SMH

Date of Receipt:

09-28-18

Time of Receipt:

3:37 PM

☐ AM ☒ PM

Load Size (cu. yds./tons): 33.62

Load 4:

Date of Shipment:

09-28-18

Truck/Tractor Registration:

59414A

Signature of Transporter Representative:

John L. L...

Time of Shipment:

2:00 PM

☐ AM ☒ PM

Trailer Registration (if any):

Q7574

Receiving Facility/Temporary Storage Representative:

SMH

Date of Receipt:

09-28-18

Time of Receipt:

3:39 PM

☐ AM ☒ PM

Load Size (cu. yds./tons): 32.94

Load 5:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

Load 6:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons) 136.36

Total Carried Forward (cu. yds./tons): 136.11

Total Carried Forward and This Page (cu. yds./tons): 272.47

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

10/1/18

302906

10:06 AM

Truck ID GATOR107 GATOR107
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.

Product OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 102560 Lb | * |
| Tare | 36900 Lb | * |
| Net | 32.83 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 1 | 9 |
| Qty | 32.83 | 305.30 |

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Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket

10/1/18

302946

2:52 PM

Truck ID GATOR107 GATOR107
Customer Order 10125 W. L. French Excavating Corporatio
18-9-14790MA Res. 85 McCabe St Dartmouth MA

P.O.**Product** OIL MA

Site Addr. Residential
85 McCabe St
Dartmouth, MA 02748

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

| | | |
|--------------|-----------|---|
| Gross | 103940 Lb | * |
| Tare | 36900 Lb | * |
| Net | 33.52 Ton | * |

| | Today | To Date |
|--------------|--------------|----------------|
| Loads | 2 | 10 |
| Qty | 66.35 | 338.82 |

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BILL OF LADING Transport Log Sheet

Release Tracking Number

Page

OF

4 - 27363

I. LOAD INFORMATION: Signature of Transporter Representative:

Load 1:

Date of Shipment:

Time of Shipment:

☒ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☒ AM ☐ PM

Load Size (cu. yds./tons):

Load 2:

Signature of Transporter Representative:

Date of Shipment:

Time of Shipment:

☐ AM ☒ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☒ PM

Load Size (cu. yds./tons):

Load 3:

Signature of Transporter Representative:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

Load 4:

Signature of Transporter Representative:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

Load 5:

Signature of Transporter Representative:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

Load 6:

Signature of Transporter Representative:

Date of Shipment:

Time of Shipment:

☐ AM ☐ PM

Truck/Tractor Registration:

Trailer Registration (if any):

Receiving Facility/Temporary Storage Representative:

Date of Receipt:

Time of Receipt:

☐ AM ☐ PM

Load Size (cu. yds./tons):

J. LOG SHEET VOLUME INFORMATION:

Total Volume Recorded This Page (cu. yds./tons) 66.35

Total Carried Forward (cu. yds./tons): 272.47

Total Carried Forward and This Page (cu. yds./tons): 338.82

ATTACHMENT 3

TEST PIT LOGS

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-1 | | page 1 of 1 |
|--|--|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand, some Brick | | | |
| | | 1-3: Trash (tires, rubber) | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | Organic Soil (peat) | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
| 5 | | | | |
| | | | | |
| 6 | | | | |
| | | | | |
| 7 | | | | |
| | | | | |
| 8 | | | | |
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| 13 | | | | |
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| 14 | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-2 | | page 1 of 1 |
|--|----------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand | | | |
| | | 1-3: trace Wood | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | Organic Soil (peat) | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
| 5 | | | | |
| | | | | |
| 6 | | | | |
| | | | | |
| 7 | | | | |
| | | | | |
| 8 | | | | |
| | | | | |
| 9 | | | | |
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| 10 | | | | |
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| 11 | | | | |
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| 12 | | | | |
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| 13 | | | | |
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| 14 | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-3 | | page 1 of 1 |
|--|----------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand | | | |
| | | | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | Organic Soil (peat) | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
| 5 | | | | |
| | | | | |
| 6 | | | | |
| | | | | |
| 7 | | | | |
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| 8 | | | | |
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| 14 | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| Notes: | | | | |

| | | | | |
|--|--|---|--------------|-------------|
| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-4 | | page 1 of 1 |
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 5 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as isobutylene | | |
| Excavation Equipment: Mini-Excavator | | | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-4: Fill, Fine-Med Sand, some Silt and Gravel | | | |
| | | | | |
| 2 | | | | |
| | | 2-3: Trash (metal, glass, wood); petroleum odor | | |
| 3 | | | | |
| | | Sample @ 3-4 | 22.8 | |
| 4 | | | | |
| | 4-5: Organic Soil (peat) | | | |
| 5 | | | | |
| | End of Excavation 4' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-5 | | page 1 of 1 |
|--|---|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Fill, Sand | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand, trace Brick | | | |
| | | 1-3: Trash (metal, rubber inner tubes) | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.1 | |
| 3 | | | | |
| | 3-4: Organic Soil (peat) | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-6 | | page 1 of 1 |
|--|--------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-3: Fill, Fine-Med Sand | | | |
| 1 | | | | |
| | | 1-3: trace Wood | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | 3-4: Clay | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
| 5 | | | | |
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| Notes: | | | | |

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| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-7 | | page 1 of 1 |
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 5 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 4 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as isobutylene | | |
| Excavation Equipment: Mini-Excavator | | | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-4: Fill, Fine-Med Sand, trace Brick | | | |
| | | | | |
| 2 | | | | |
| | | 2-4: Trash (metal) | | |
| 3 | | | | |
| | | Sample @ 3-4 | 0.0 | |
| 4 | | | | |
| | 4-5: Organic Soil (peat) | | | |
| 5 | | | | |
| | End of Excavation 5' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-8 | | page 1 of 1 |
|--|--------------------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 2, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 4 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-4: Fill, Fine-Med Sand, some Ash | | | |
| | | | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
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| 4 | | | | |
| | End of Excavation 5' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-9 | | page 1 of 1 |
|--|----------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 3 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 0 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-2: Pea Stone | | | |
| 1 | | | | |
| | | | | |
| 2 | | | | |
| | 2-3: Clay | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | End of Excavation 3' | | | |
| 4 | | | | |
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| Notes: Inside House Foundation Area | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-10 | | page 1 of 1 |
|--|----------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 3 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 0 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-2: Pea Stone | | | |
| 1 | | | | |
| | | | | |
| 2 | | | | |
| | 2-3: Clay | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | End of Excavation 3' | | | |
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| Notes: Inside House Foundation Area | | | | |

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| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-11 | | page 1 of 1 |
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 5 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-4: Fill, Fine-Med Sand | | | |
| | | | | |
| 2 | | | | |
| | | 2-4: Trash (metal, glass, wood); petroleum odor | | |
| 3 | | | | |
| | | Sample @ 3-4 | 92.0 | |
| 4 | | | | |
| | 4-5: Clay | | | |
| 5 | | | | |
| | End of Excavation 5' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-12 | | page 1 of 1 |
|--|----------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 5 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-4: Fill, Fine-Med Sand | | | |
| | | | | |
| 2 | | | | |
| | | 2-4: Trash (metal, glass, wood); petroleum odor | | |
| 3 | | | | |
| | | Sample @ 3-4 | 1.5 | |
| 4 | | | | |
| | End of Excavation 4' | | | |
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| Notes: | | | | |

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| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-13 | | page 1 of 1 |
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as isobutylene | | |
| Excavation Equipment: Mini-Excavator | | | | |
| Depth (feet) | Soil Description | Notes | | PID (ppm) |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand, some Brick | | | |
| | | 1-3: Trash (glass, metal) | | |
| 2 | | | | |
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| 3 | | | | |
| | Organic Soil (peat) | | | |
| 4 | | | | |
| | End of Excavation 4' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-14 | | page 1 of 1 |
|--|--|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 2 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-2: Fill, Fine-Med Sand, some Brick | | | |
| | | 1-2: Trash (fabric) | | |
| 2 | | | | |
| | End of Excavation 2' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-15 | | page 1 of 1 |
|--|----------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 2 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 2 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand | | | |
| | | Sample @ 1-2 | 0.9 | |
| 2 | | | | |
| | End of Excavation 2' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-16 | | page 1 of 1 |
|--|--------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-3: Fill, Fine-Med Sand | | | |
| 1 | | | | |
| | | 1-3: Trash (rubber tires, glass, metal) | | |
| 2 | | | | |
| | | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | End of Excavation 3' | | | |
| 4 | | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-17 | | page 1 of 1 |
|--|----------------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 5 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 4 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-0.5: Top Soil | | | |
| 1 | 0.5-3: Fill, Fine-Med Sand | | | |
| | | | | |
| 2 | | | | |
| | | | | |
| 3 | | | | |
| | 3-4: Fill, Fine-Med Sand and Ash | Sample @ 3-4 | 0.5 | |
| 4 | | | | |
| | End of Excavation 4' | | | |
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| Notes: | | | | |

| SITEC Environmental, Inc. 769 Plain Street, Unit C Marshfield, MA 02050 Phone: (781) 319-0100 FAX: (781) 834-4783 | | Test Pit Log Test Pit No.: TP-18 | | page 1 of 1 |
|--|----------------------------------|---|--------------|-------------|
| Project No: SE18-1375 | | Date: October 26, 2018 | | |
| Project Name: 85 McCabe Street | | Test Pit Depth: 4 feet | | |
| City, State: Dartmouth, Massachusetts | | Depth to Groundwater: 3 feet | | |
| Field Technician: G Souza | | Soil Sampling Device: Hand Trowel | | |
| Excavation Contractor: Terceira Construction | | Field Screening: Photo-ionization Detector in ppmV as | | |
| Excavation Equipment: Mini-Excavator | | isobutylene | | |
| Depth (feet) | Soil Description | Notes | PID (ppm) | |
| 0 | | | | |
| | 0-3: Fill, Fine-Med Sand | | | |
| 1 | | | | |
| | | | | |
| 2 | | | | |
| | 0-3: Fill, Fine-Med Sand and Ash | Sample @ 2-3 | 0.0 | |
| 3 | | | | |
| | End of Excavation 3' | | | |
| 4 | | | | |
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| Notes: | | | | |

ATTACHMENT 4

LABORATORY REPORTS (TEST PIT SOIL)



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1839763 |
| Client: | Sitec Environmental, Inc. 769 Plain Street Unit C Marshfield, MA 02050 |
| ATTN: | Geoff Souza |
| Phone: | (781) 319-0100 |
| Project Name: | MCCABE ST. |
| Project Number: | SE18-1375 |
| Report Date: | 10/14/18 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1839763-01 | TP-1, 2-3 | SOIL | Not Specified | 10/02/18 09:15 | 10/03/18 |
| L1839763-02 | TP-2, 2-3 | SOIL | Not Specified | 10/02/18 09:25 | 10/03/18 |
| L1839763-03 | TP-3, 2-3 | SOIL | Not Specified | 10/02/18 09:35 | 10/03/18 |
| L1839763-04 | TP-4, 3-4 | SOIL | Not Specified | 10/02/18 09:45 | 10/03/18 |
| L1839763-05 | TP-5, 2-3 | SOIL | Not Specified | 10/02/18 10:00 | 10/03/18 |
| L1839763-06 | TP-6, 2-3 | SOIL | Not Specified | 10/02/18 10:15 | 10/03/18 |
| L1839763-07 | TP-7, 3-4 | SOIL | Not Specified | 10/02/18 10:30 | 10/03/18 |
| L1839763-08 | TP-8, 2-3 | SOIL | Not Specified | 10/02/18 10:45 | 10/03/18 |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | NO |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Volatile Organics

In reference to question G:

L1839763-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1839763-04, did not meet the method required minimum response factor on the lowest calibration standard for trichloroethene (0.1978), 2-butanone (0.0660), 4-methyl-2-pentanone (0.0786), and 1,4-dioxane (0.0012), as well as the average response factor for acetone, 2-butanone, 4-methyl-2-pentanone, and 1,4-dioxane.

The continuing calibration standard, associated with L1839763-04, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics

L1839763-04: The sample has elevated detection limits due to limited sample volume available for analysis and due to the dilution required by the sample matrix..

L1839763-05, -06, -07 and -08: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question G:

L1839763-04 through -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

Case Narrative (continued)

Total Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Amita Naik

Title: Technical Director/Representative

Date: 10/14/18

ORGANICS

VOLATILES

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-04 D

Date Collected: 10/02/18 09:45

Client ID: TP-4, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 97,8260C

Analytical Date: 10/10/18 10:06

Analyst: MV

Percent Solids: 30%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/kg | 89000 | -- | 20 |
| 1,1-Dichloroethane | ND | | ug/kg | 18000 | -- | 20 |
| Chloroform | ND | | ug/kg | 26000 | -- | 20 |
| Carbon tetrachloride | ND | | ug/kg | 18000 | -- | 20 |
| 1,2-Dichloropropane | ND | | ug/kg | 18000 | -- | 20 |
| Dibromochloromethane | ND | | ug/kg | 18000 | -- | 20 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 18000 | -- | 20 |
| Tetrachloroethene | ND | | ug/kg | 8900 | -- | 20 |
| Chlorobenzene | ND | | ug/kg | 8900 | -- | 20 |
| Trichlorofluoromethane | ND | | ug/kg | 71000 | -- | 20 |
| 1,2-Dichloroethane | ND | | ug/kg | 18000 | -- | 20 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 8900 | -- | 20 |
| Bromodichloromethane | ND | | ug/kg | 8900 | -- | 20 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 18000 | -- | 20 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 8900 | -- | 20 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 8900 | -- | 20 |
| 1,1-Dichloropropene | ND | | ug/kg | 8900 | -- | 20 |
| Bromoform | ND | | ug/kg | 71000 | -- | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 8900 | -- | 20 |
| Benzene | 9800 | | ug/kg | 8900 | -- | 20 |
| Toluene | ND | | ug/kg | 18000 | -- | 20 |
| Ethylbenzene | 190000 | | ug/kg | 18000 | -- | 20 |
| Chloromethane | ND | | ug/kg | 71000 | -- | 20 |
| Bromomethane | ND | | ug/kg | 35000 | -- | 20 |
| Vinyl chloride | ND | | ug/kg | 18000 | -- | 20 |
| Chloroethane | ND | | ug/kg | 35000 | -- | 20 |
| 1,1-Dichloroethene | ND | | ug/kg | 18000 | -- | 20 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 26000 | -- | 20 |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-04 D

Date Collected: 10/02/18 09:45

Client ID: TP-4, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|---------|-----------|-------|--------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/kg | 8900 | -- | 20 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 35000 | -- | 20 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 35000 | -- | 20 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 35000 | -- | 20 |
| Methyl tert butyl ether | ND | | ug/kg | 35000 | -- | 20 |
| p/m-Xylene | 140000 | | ug/kg | 35000 | -- | 20 |
| o-Xylene | 60000 | | ug/kg | 18000 | -- | 20 |
| Xylenes, Total | 200000 | | ug/kg | 18000 | -- | 20 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 18000 | -- | 20 |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 18000 | -- | 20 |
| Dibromomethane | ND | | ug/kg | 35000 | -- | 20 |
| 1,2,3-Trichloropropane | ND | | ug/kg | 35000 | -- | 20 |
| Styrene | ND | | ug/kg | 18000 | -- | 20 |
| Dichlorodifluoromethane | ND | | ug/kg | 180000 | -- | 20 |
| Acetone | ND | | ug/kg | 180000 | -- | 20 |
| Carbon disulfide | ND | | ug/kg | 180000 | -- | 20 |
| Methyl ethyl ketone | ND | | ug/kg | 180000 | -- | 20 |
| Methyl isobutyl ketone | ND | | ug/kg | 180000 | -- | 20 |
| 2-Hexanone | ND | | ug/kg | 180000 | -- | 20 |
| Bromochloromethane | ND | | ug/kg | 35000 | -- | 20 |
| Tetrahydrofuran | ND | | ug/kg | 71000 | -- | 20 |
| 2,2-Dichloropropane | ND | | ug/kg | 35000 | -- | 20 |
| 1,2-Dibromoethane | ND | | ug/kg | 18000 | -- | 20 |
| 1,3-Dichloropropane | ND | | ug/kg | 35000 | -- | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/kg | 8900 | -- | 20 |
| Bromobenzene | ND | | ug/kg | 35000 | -- | 20 |
| n-Butylbenzene | ND | | ug/kg | 18000 | -- | 20 |
| sec-Butylbenzene | ND | | ug/kg | 18000 | -- | 20 |
| tert-Butylbenzene | ND | | ug/kg | 35000 | -- | 20 |
| o-Chlorotoluene | ND | | ug/kg | 35000 | -- | 20 |
| p-Chlorotoluene | ND | | ug/kg | 35000 | -- | 20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 53000 | -- | 20 |
| Hexachlorobutadiene | ND | | ug/kg | 71000 | -- | 20 |
| Isopropylbenzene | 23000 | | ug/kg | 18000 | -- | 20 |
| p-Isopropyltoluene | ND | | ug/kg | 18000 | -- | 20 |
| Naphthalene | 2600000 | | ug/kg | 71000 | -- | 20 |
| n-Propylbenzene | 28000 | | ug/kg | 18000 | -- | 20 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-04 D

Date Collected: 10/02/18 09:45

Client ID: TP-4, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|---------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 35000 | -- | 20 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 35000 | -- | 20 |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 35000 | -- | 20 |
| 1,2,4-Trimethylbenzene | 100000 | | ug/kg | 35000 | -- | 20 |
| Diethyl ether | ND | | ug/kg | 35000 | -- | 20 |
| Diisopropyl Ether | ND | | ug/kg | 35000 | -- | 20 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/kg | 35000 | -- | 20 |
| Tertiary-Amyl Methyl Ether | ND | | ug/kg | 35000 | -- | 20 |
| 1,4-Dioxane | ND | | ug/kg | 1800000 | -- | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 10/10/18 08:21
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1166812-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | -- |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | -- |
| Chloroform | ND | | ug/kg | 75 | -- |
| Carbon tetrachloride | ND | | ug/kg | 50 | -- |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | -- |
| Dibromochloromethane | ND | | ug/kg | 50 | -- |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | -- |
| Tetrachloroethene | ND | | ug/kg | 25 | -- |
| Chlorobenzene | ND | | ug/kg | 25 | -- |
| Trichlorofluoromethane | ND | | ug/kg | 200 | -- |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | -- |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | -- |
| Bromodichloromethane | ND | | ug/kg | 25 | -- |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | -- |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | -- |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 25 | -- |
| 1,1-Dichloropropene | ND | | ug/kg | 25 | -- |
| Bromoform | ND | | ug/kg | 200 | -- |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | -- |
| Benzene | ND | | ug/kg | 25 | -- |
| Toluene | ND | | ug/kg | 50 | -- |
| Ethylbenzene | ND | | ug/kg | 50 | -- |
| Chloromethane | ND | | ug/kg | 200 | -- |
| Bromomethane | ND | | ug/kg | 100 | -- |
| Vinyl chloride | ND | | ug/kg | 50 | -- |
| Chloroethane | ND | | ug/kg | 100 | -- |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | -- |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | -- |
| Trichloroethene | ND | | ug/kg | 25 | -- |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 10/10/18 08:21
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1166812-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| Methyl tert butyl ether | ND | | ug/kg | 100 | -- |
| p/m-Xylene | ND | | ug/kg | 100 | -- |
| o-Xylene | ND | | ug/kg | 50 | -- |
| Xylenes, Total | ND | | ug/kg | 50 | -- |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | -- |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 50 | -- |
| Dibromomethane | ND | | ug/kg | 100 | -- |
| 1,2,3-Trichloropropane | ND | | ug/kg | 100 | -- |
| Styrene | ND | | ug/kg | 50 | -- |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | -- |
| Acetone | ND | | ug/kg | 500 | -- |
| Carbon disulfide | ND | | ug/kg | 500 | -- |
| Methyl ethyl ketone | ND | | ug/kg | 500 | -- |
| Methyl isobutyl ketone | ND | | ug/kg | 500 | -- |
| 2-Hexanone | ND | | ug/kg | 500 | -- |
| Bromochloromethane | ND | | ug/kg | 100 | -- |
| Tetrahydrofuran | ND | | ug/kg | 200 | -- |
| 2,2-Dichloropropane | ND | | ug/kg | 100 | -- |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | -- |
| 1,3-Dichloropropane | ND | | ug/kg | 100 | -- |
| 1,1,1,2-Tetrachloroethane | ND | | ug/kg | 25 | -- |
| Bromobenzene | ND | | ug/kg | 100 | -- |
| n-Butylbenzene | ND | | ug/kg | 50 | -- |
| sec-Butylbenzene | ND | | ug/kg | 50 | -- |
| tert-Butylbenzene | ND | | ug/kg | 100 | -- |
| o-Chlorotoluene | ND | | ug/kg | 100 | -- |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 10/10/18 08:21
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|-----|
| MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1166812-5 | | | | | |
| p-Chlorotoluene | ND | | ug/kg | 100 | -- |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | -- |
| Hexachlorobutadiene | ND | | ug/kg | 200 | -- |
| Isopropylbenzene | ND | | ug/kg | 50 | -- |
| p-Isopropyltoluene | ND | | ug/kg | 50 | -- |
| Naphthalene | ND | | ug/kg | 200 | -- |
| n-Propylbenzene | ND | | ug/kg | 50 | -- |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 100 | -- |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 100 | -- |
| Diethyl ether | ND | | ug/kg | 100 | -- |
| Diisopropyl Ether | ND | | ug/kg | 100 | -- |
| Ethyl-Tert-Butyl-Ether | ND | | ug/kg | 100 | -- |
| Tertiary-Amyl Methyl Ether | ND | | ug/kg | 100 | -- |
| 1,4-Dioxane | ND | | ug/kg | 5000 | -- |
| 2-Chloroethylvinyl ether | ND | | ug/kg | 1000 | -- |
| Halothane | ND | | ug/kg | 500 | -- |
| Ethyl Acetate | ND | | ug/kg | 500 | -- |
| Freon-113 | ND | | ug/kg | 200 | -- |
| Vinyl acetate | ND | | ug/kg | 500 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |



Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1166812-3 WG1166812-4 | | | | | | | | |
| Methylene chloride | 85 | | 83 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethane | 90 | | 88 | | 70-130 | 2 | | 20 |
| Chloroform | 90 | | 90 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 87 | | 87 | | 70-130 | 0 | | 20 |
| 1,2-Dichloropropane | 94 | | 94 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 99 | | 99 | | 70-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 104 | | 103 | | 70-130 | 1 | | 20 |
| Tetrachloroethene | 90 | | 91 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 89 | | 89 | | 70-130 | 0 | | 20 |
| Trichlorofluoromethane | 91 | | 90 | | 70-130 | 1 | | 20 |
| 1,2-Dichloroethane | 91 | | 89 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 87 | | 86 | | 70-130 | 1 | | 20 |
| Bromodichloromethane | 96 | | 98 | | 70-130 | 2 | | 20 |
| trans-1,3-Dichloropropene | 91 | | 90 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | 95 | | 95 | | 70-130 | 0 | | 20 |
| 1,1-Dichloropropene | 84 | | 84 | | 70-130 | 0 | | 20 |
| Bromoform | 101 | | 100 | | 70-130 | 1 | | 20 |
| 1,1,2,2-Tetrachloroethane | 106 | | 102 | | 70-130 | 4 | | 20 |
| Benzene | 87 | | 88 | | 70-130 | 1 | | 20 |
| Toluene | 88 | | 89 | | 70-130 | 1 | | 20 |
| Ethylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| Chloromethane | 86 | | 83 | | 70-130 | 4 | | 20 |
| Bromomethane | 90 | | 90 | | 70-130 | 0 | | 20 |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1166812-3 WG1166812-4 | | | | | | | | |
| Vinyl chloride | 88 | | 88 | | 70-130 | 0 | | 20 |
| Chloroethane | 93 | | 92 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethene | 86 | | 84 | | 70-130 | 2 | | 20 |
| trans-1,2-Dichloroethene | 87 | | 85 | | 70-130 | 2 | | 20 |
| Trichloroethene | 89 | | 89 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 93 | | 94 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 90 | | 91 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 92 | | 93 | | 70-130 | 1 | | 20 |
| Methyl tert butyl ether | 90 | | 88 | | 70-130 | 2 | | 20 |
| p/m-Xylene | 87 | | 88 | | 70-130 | 1 | | 20 |
| o-Xylene | 86 | | 87 | | 70-130 | 1 | | 20 |
| cis-1,2-Dichloroethene | 89 | | 89 | | 70-130 | 0 | | 20 |
| Dibromomethane | 100 | | 98 | | 70-130 | 2 | | 20 |
| 1,2,3-Trichloropropane | 102 | | 99 | | 70-130 | 3 | | 20 |
| Styrene | 86 | | 86 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 86 | | 86 | | 70-130 | 0 | | 20 |
| Acetone | 84 | | 77 | | 70-130 | 9 | | 20 |
| Carbon disulfide | 84 | | 82 | | 70-130 | 2 | | 20 |
| Methyl ethyl ketone | 74 | | 70 | | 70-130 | 6 | | 20 |
| Methyl isobutyl ketone | 88 | | 81 | | 70-130 | 8 | | 20 |
| 2-Hexanone | 85 | | 81 | | 70-130 | 5 | | 20 |
| Bromochloromethane | 103 | | 101 | | 70-130 | 2 | | 20 |
| Tetrahydrofuran | 102 | | 97 | | 70-130 | 5 | | 20 |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1166812-3 WG1166812-4 | | | | | | | | |
| 2,2-Dichloropropane | 88 | | 87 | | 70-130 | 1 | | 20 |
| 1,2-Dibromoethane | 103 | | 101 | | 70-130 | 2 | | 20 |
| 1,3-Dichloropropane | 98 | | 98 | | 70-130 | 0 | | 20 |
| 1,1,1,2-Tetrachloroethane | 96 | | 96 | | 70-130 | 0 | | 20 |
| Bromobenzene | 91 | | 90 | | 70-130 | 1 | | 20 |
| n-Butylbenzene | 88 | | 90 | | 70-130 | 2 | | 20 |
| sec-Butylbenzene | 87 | | 87 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 83 | | 85 | | 70-130 | 2 | | 20 |
| o-Chlorotoluene | 93 | | 94 | | 70-130 | 1 | | 20 |
| p-Chlorotoluene | 84 | | 87 | | 70-130 | 4 | | 20 |
| 1,2-Dibromo-3-chloropropane | 92 | | 89 | | 70-130 | 3 | | 20 |
| Hexachlorobutadiene | 84 | | 85 | | 70-130 | 1 | | 20 |
| Isopropylbenzene | 83 | | 84 | | 70-130 | 1 | | 20 |
| p-Isopropyltoluene | 85 | | 85 | | 70-130 | 0 | | 20 |
| Naphthalene | 87 | | 88 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 90 | | 92 | | 70-130 | 2 | | 20 |
| 1,2,4-Trichlorobenzene | 89 | | 91 | | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | 85 | | 86 | | 70-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 85 | | 86 | | 70-130 | 1 | | 20 |
| Diethyl ether | 94 | | 91 | | 70-130 | 3 | | 20 |
| Diisopropyl Ether | 85 | | 83 | | 70-130 | 2 | | 20 |
| Ethyl-Tert-Butyl-Ether | 87 | | 85 | | 70-130 | 2 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1166812-3 WG1166812-4 | | | | | | | | |
| Tertiary-Amyl Methyl Ether | 89 | | 88 | | 70-130 | 1 | | 20 |
| 1,4-Dioxane | 96 | | 97 | | 70-130 | 1 | | 20 |
| 2-Chloroethylvinyl ether | 73 | | 71 | | 70-130 | 3 | | 20 |
| Halothane | 84 | | 84 | | 70-130 | 0 | | 20 |
| Ethyl Acetate | 94 | | 89 | | 70-130 | 5 | | 20 |
| Freon-113 | 81 | | 80 | | 70-130 | 1 | | 20 |
| Vinyl acetate | 78 | | 75 | | 70-130 | 4 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 96 | | 92 | | 70-130 |
| Toluene-d8 | 98 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 94 | | 70-130 |
| Dibromofluoromethane | 102 | | 101 | | 70-130 |

SEMIVOLATILES

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-01

Date Collected: 10/02/18 09:15

Client ID: TP-1, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/11/18 17:12

Analyst: EK

Percent Solids: 79%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 170 | -- | 1 |
| Fluoranthene | 130 | | ug/kg | 130 | -- | 1 |
| Naphthalene | ND | | ug/kg | 210 | -- | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 130 | -- | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 170 | -- | 1 |
| Benzo(b)fluoranthene | ND | | ug/kg | 130 | -- | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 130 | -- | 1 |
| Chrysene | ND | | ug/kg | 130 | -- | 1 |
| Acenaphthylene | ND | | ug/kg | 170 | -- | 1 |
| Anthracene | ND | | ug/kg | 130 | -- | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 170 | -- | 1 |
| Fluorene | ND | | ug/kg | 210 | -- | 1 |
| Phenanthrene | 140 | | ug/kg | 130 | -- | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 130 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 170 | -- | 1 |
| Pyrene | 180 | | ug/kg | 130 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 63 | | 30-130 |
| 2-Fluorobiphenyl | 60 | | 30-130 |
| 4-Terphenyl-d14 | 39 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-02

Date Collected: 10/02/18 09:25

Client ID: TP-2, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/11/18 17:37

Analyst: EK

Percent Solids: 81%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | -- | 1 |
| Fluoranthene | 2400 | | ug/kg | 120 | -- | 1 |
| Naphthalene | ND | | ug/kg | 200 | -- | 1 |
| Benzo(a)anthracene | 1600 | | ug/kg | 120 | -- | 1 |
| Benzo(a)pyrene | 1400 | | ug/kg | 160 | -- | 1 |
| Benzo(b)fluoranthene | 2000 | | ug/kg | 120 | -- | 1 |
| Benzo(k)fluoranthene | 520 | | ug/kg | 120 | -- | 1 |
| Chrysene | 2000 | | ug/kg | 120 | -- | 1 |
| Acenaphthylene | 860 | | ug/kg | 160 | -- | 1 |
| Anthracene | 670 | | ug/kg | 120 | -- | 1 |
| Benzo(ghi)perylene | 760 | | ug/kg | 160 | -- | 1 |
| Fluorene | 210 | | ug/kg | 200 | -- | 1 |
| Phenanthrene | 1300 | | ug/kg | 120 | -- | 1 |
| Dibenzo(a,h)anthracene | 220 | | ug/kg | 120 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | 800 | | ug/kg | 160 | -- | 1 |
| Pyrene | 2700 | | ug/kg | 120 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 240 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 73 | | 30-130 |
| 2-Fluorobiphenyl | 71 | | 30-130 |
| 4-Terphenyl-d14 | 48 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-03

Date Collected: 10/02/18 09:35

Client ID: TP-3, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/11/18 18:02

Analyst: EK

Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 230 | | ug/kg | 160 | -- | 1 |
| Fluoranthene | 6600 | | ug/kg | 120 | -- | 1 |
| Naphthalene | ND | | ug/kg | 200 | -- | 1 |
| Benzo(a)anthracene | 3500 | | ug/kg | 120 | -- | 1 |
| Benzo(a)pyrene | 3000 | | ug/kg | 160 | -- | 1 |
| Benzo(b)fluoranthene | 4500 | | ug/kg | 120 | -- | 1 |
| Benzo(k)fluoranthene | 1400 | | ug/kg | 120 | -- | 1 |
| Chrysene | 4000 | | ug/kg | 120 | -- | 1 |
| Acenaphthylene | 1000 | | ug/kg | 160 | -- | 1 |
| Anthracene | 1200 | | ug/kg | 120 | -- | 1 |
| Benzo(ghi)perylene | 1600 | | ug/kg | 160 | -- | 1 |
| Fluorene | 510 | | ug/kg | 200 | -- | 1 |
| Phenanthrene | 4000 | | ug/kg | 120 | -- | 1 |
| Dibenzo(a,h)anthracene | 460 | | ug/kg | 120 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | 1800 | | ug/kg | 160 | -- | 1 |
| Pyrene | 6000 | | ug/kg | 120 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 240 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 67 | | 30-130 |
| 2-Fluorobiphenyl | 65 | | 30-130 |
| 4-Terphenyl-d14 | 41 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-04 D

Date Collected: 10/02/18 09:45

Client ID: TP-4, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/12/18 13:53

Analyst: IM

Percent Solids: 30%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 25000 | | ug/kg | 13000 | -- | 10 |
| Fluoranthene | 18000 | | ug/kg | 9700 | -- | 10 |
| Naphthalene | 530000 | | ug/kg | 16000 | -- | 10 |
| Benzo(a)anthracene | 15000 | | ug/kg | 9700 | -- | 10 |
| Benzo(a)pyrene | ND | | ug/kg | 13000 | -- | 10 |
| Benzo(b)fluoranthene | ND | | ug/kg | 9700 | -- | 10 |
| Benzo(k)fluoranthene | ND | | ug/kg | 9700 | -- | 10 |
| Chrysene | 16000 | | ug/kg | 9700 | -- | 10 |
| Acenaphthylene | ND | | ug/kg | 13000 | -- | 10 |
| Anthracene | 13000 | | ug/kg | 9700 | -- | 10 |
| Benzo(ghi)perylene | ND | | ug/kg | 13000 | -- | 10 |
| Fluorene | 32000 | | ug/kg | 16000 | -- | 10 |
| Phenanthrene | 73000 | | ug/kg | 9700 | -- | 10 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 9700 | -- | 10 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 13000 | -- | 10 |
| Pyrene | 28000 | | ug/kg | 9700 | -- | 10 |
| 2-Methylnaphthalene | 200000 | | ug/kg | 19000 | -- | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 82 | | 30-130 |
| 2-Fluorobiphenyl | 66 | | 30-130 |
| 4-Terphenyl-d14 | 40 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-05 D

Date Collected: 10/02/18 10:00

Client ID: TP-5, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/12/18 17:04

Analyst: EK

Percent Solids: 68%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 1000 | | ug/kg | 960 | -- | 5 |
| Fluoranthene | 26000 | | ug/kg | 720 | -- | 5 |
| Naphthalene | 5800 | | ug/kg | 1200 | -- | 5 |
| Benzo(a)anthracene | 18000 | | ug/kg | 720 | -- | 5 |
| Benzo(a)pyrene | 14000 | | ug/kg | 960 | -- | 5 |
| Benzo(b)fluoranthene | 17000 | | ug/kg | 720 | -- | 5 |
| Benzo(k)fluoranthene | 5200 | | ug/kg | 720 | -- | 5 |
| Chrysene | 25000 | | ug/kg | 720 | -- | 5 |
| Acenaphthylene | 9500 | | ug/kg | 960 | -- | 5 |
| Anthracene | 7300 | | ug/kg | 720 | -- | 5 |
| Benzo(ghi)perylene | 8500 | | ug/kg | 960 | -- | 5 |
| Fluorene | 3400 | | ug/kg | 1200 | -- | 5 |
| Phenanthrene | 24000 | | ug/kg | 720 | -- | 5 |
| Dibenzo(a,h)anthracene | 2600 | | ug/kg | 720 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | 8200 | | ug/kg | 960 | -- | 5 |
| Pyrene | 41000 | | ug/kg | 720 | -- | 5 |
| 2-Methylnaphthalene | 3200 | | ug/kg | 1400 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 58 | | 30-130 |
| 2-Fluorobiphenyl | 58 | | 30-130 |
| 4-Terphenyl-d14 | 55 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-06 D

Date Collected: 10/02/18 10:15

Client ID: TP-6, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/12/18 17:30

Analyst: EK

Percent Solids: 62%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 1100 | -- | 5 |
| Fluoranthene | 5200 | | ug/kg | 800 | -- | 5 |
| Naphthalene | 1300 | | ug/kg | 1300 | -- | 5 |
| Benzo(a)anthracene | 2600 | | ug/kg | 800 | -- | 5 |
| Benzo(a)pyrene | 2900 | | ug/kg | 1100 | -- | 5 |
| Benzo(b)fluoranthene | 3500 | | ug/kg | 800 | -- | 5 |
| Benzo(k)fluoranthene | 920 | | ug/kg | 800 | -- | 5 |
| Chrysene | 3000 | | ug/kg | 800 | -- | 5 |
| Acenaphthylene | ND | | ug/kg | 1100 | -- | 5 |
| Anthracene | 1600 | | ug/kg | 800 | -- | 5 |
| Benzo(ghi)perylene | 1500 | | ug/kg | 1100 | -- | 5 |
| Fluorene | ND | | ug/kg | 1300 | -- | 5 |
| Phenanthrene | 5400 | | ug/kg | 800 | -- | 5 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 800 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | 1600 | | ug/kg | 1100 | -- | 5 |
| Pyrene | 5200 | | ug/kg | 800 | -- | 5 |
| 2-Methylnaphthalene | ND | | ug/kg | 1600 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 75 | | 30-130 |
| 2-Fluorobiphenyl | 72 | | 30-130 |
| 4-Terphenyl-d14 | 59 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-07 D

Date Collected: 10/02/18 10:30

Client ID: TP-7, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/12/18 18:15

Analyst: EK

Percent Solids: 38%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 3100 | | ug/kg | 1800 | -- | 5 |
| Fluoranthene | 7100 | | ug/kg | 1300 | -- | 5 |
| Naphthalene | 32000 | | ug/kg | 2200 | -- | 5 |
| Benzo(a)anthracene | 4000 | | ug/kg | 1300 | -- | 5 |
| Benzo(a)pyrene | 3500 | | ug/kg | 1800 | -- | 5 |
| Benzo(b)fluoranthene | 4200 | | ug/kg | 1300 | -- | 5 |
| Benzo(k)fluoranthene | 1400 | | ug/kg | 1300 | -- | 5 |
| Chrysene | 4600 | | ug/kg | 1300 | -- | 5 |
| Acenaphthylene | 2500 | | ug/kg | 1800 | -- | 5 |
| Anthracene | 2400 | | ug/kg | 1300 | -- | 5 |
| Benzo(ghi)perylene | 2400 | | ug/kg | 1800 | -- | 5 |
| Fluorene | 4000 | | ug/kg | 2200 | -- | 5 |
| Phenanthrene | 10000 | | ug/kg | 1300 | -- | 5 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 1300 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | 2600 | | ug/kg | 1800 | -- | 5 |
| Pyrene | 8900 | | ug/kg | 1300 | -- | 5 |
| 2-Methylnaphthalene | 3900 | | ug/kg | 2600 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 82 | | 30-130 |
| 2-Fluorobiphenyl | 72 | | 30-130 |
| 4-Terphenyl-d14 | 43 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-08 D

Date Collected: 10/02/18 10:45

Client ID: TP-8, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/08/18 07:52

Analytical Date: 10/12/18 18:39

Analyst: EK

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 760 | -- | 5 |
| Fluoranthene | 14000 | | ug/kg | 570 | -- | 5 |
| Naphthalene | 1400 | | ug/kg | 940 | -- | 5 |
| Benzo(a)anthracene | 8400 | | ug/kg | 570 | -- | 5 |
| Benzo(a)pyrene | 5500 | | ug/kg | 760 | -- | 5 |
| Benzo(b)fluoranthene | 7400 | | ug/kg | 570 | -- | 5 |
| Benzo(k)fluoranthene | 2500 | | ug/kg | 570 | -- | 5 |
| Chrysene | 9200 | | ug/kg | 570 | -- | 5 |
| Acenaphthylene | 3600 | | ug/kg | 760 | -- | 5 |
| Anthracene | 3000 | | ug/kg | 570 | -- | 5 |
| Benzo(ghi)perylene | 4600 | | ug/kg | 760 | -- | 5 |
| Fluorene | 1000 | | ug/kg | 940 | -- | 5 |
| Phenanthrene | 11000 | | ug/kg | 570 | -- | 5 |
| Dibenzo(a,h)anthracene | 1000 | | ug/kg | 570 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | 4700 | | ug/kg | 760 | -- | 5 |
| Pyrene | 15000 | | ug/kg | 570 | -- | 5 |
| 2-Methylnaphthalene | ND | | ug/kg | 1100 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 78 | | 30-130 |
| 2-Fluorobiphenyl | 80 | | 30-130 |
| 4-Terphenyl-d14 | 58 | | 30-130 |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270D
 Analytical Date: 10/11/18 11:20
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 10/08/18 07:52

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1165343-1 | | | | | |
| Acenaphthene | ND | | ug/kg | 130 | -- |
| Fluoranthene | ND | | ug/kg | 99 | -- |
| Naphthalene | ND | | ug/kg | 160 | -- |
| Benzo(a)anthracene | ND | | ug/kg | 99 | -- |
| Benzo(a)pyrene | ND | | ug/kg | 130 | -- |
| Benzo(b)fluoranthene | ND | | ug/kg | 99 | -- |
| Benzo(k)fluoranthene | ND | | ug/kg | 99 | -- |
| Chrysene | ND | | ug/kg | 99 | -- |
| Acenaphthylene | ND | | ug/kg | 130 | -- |
| Anthracene | ND | | ug/kg | 99 | -- |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | -- |
| Fluorene | ND | | ug/kg | 160 | -- |
| Phenanthrene | ND | | ug/kg | 99 | -- |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 99 | -- |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | -- |
| Pyrene | ND | | ug/kg | 99 | -- |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | -- |

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 97,8270D
Analytical Date: 10/11/18 11:20
Analyst: EK**Extraction Method:** EPA 3546
Extraction Date: 10/08/18 07:52

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| MCP Semivolatile Organics - Westborough Lab for sample(s): 01-08 Batch: WG1165343-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|------------------|-----------|-----------|------------------------|
| Nitrobenzene-d5 | 74 | | 30-130 |
| 2-Fluorobiphenyl | 79 | | 30-130 |
| 4-Terphenyl-d14 | 76 | | 30-130 |

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1165343-2 WG1165343-3 | | | | | | | | |
| Acenaphthene | 84 | | 86 | | 40-140 | 2 | | 30 |
| Fluoranthene | 84 | | 86 | | 40-140 | 2 | | 30 |
| Naphthalene | 81 | | 83 | | 40-140 | 2 | | 30 |
| Benzo(a)anthracene | 81 | | 82 | | 40-140 | 1 | | 30 |
| Benzo(a)pyrene | 89 | | 90 | | 40-140 | 1 | | 30 |
| Benzo(b)fluoranthene | 88 | | 90 | | 40-140 | 2 | | 30 |
| Benzo(k)fluoranthene | 89 | | 90 | | 40-140 | 1 | | 30 |
| Chrysene | 87 | | 89 | | 40-140 | 2 | | 30 |
| Acenaphthylene | 81 | | 81 | | 40-140 | 0 | | 30 |
| Anthracene | 86 | | 88 | | 40-140 | 2 | | 30 |
| Benzo(ghi)perylene | 82 | | 89 | | 40-140 | 8 | | 30 |
| Fluorene | 82 | | 85 | | 40-140 | 4 | | 30 |
| Phenanthrene | 83 | | 85 | | 40-140 | 2 | | 30 |
| Dibenzo(a,h)anthracene | 81 | | 85 | | 40-140 | 5 | | 30 |
| Indeno(1,2,3-cd)pyrene | 79 | | 86 | | 40-140 | 8 | | 30 |
| Pyrene | 84 | | 84 | | 40-140 | 0 | | 30 |
| 2-Methylnaphthalene | 81 | | 82 | | 40-140 | 1 | | 30 |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1165343-2 WG1165343-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Nitrobenzene-d5 | 73 | | 76 | | 30-130 |
| 2-Fluorobiphenyl | 78 | | 80 | | 30-130 |
| 4-Terphenyl-d14 | 74 | | 75 | | 30-130 |

PCBS

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-01
Client ID: TP-1, 2-3
Sample Location: Not Specified

Date Collected: 10/02/18 09:15
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 22:07
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 40.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 40.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 40.2 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 66 | | 30-150 | B |
| Decachlorobiphenyl | 55 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | A |
| Decachlorobiphenyl | 48 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-02
Client ID: TP-2, 2-3
Sample Location: Not Specified

Date Collected: 10/02/18 09:25
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 22:19
Analyst: WR
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.2 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 39.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.2 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.2 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | B |
| Decachlorobiphenyl | 58 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | A |
| Decachlorobiphenyl | 54 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-03
Client ID: TP-3, 2-3
Sample Location: Not Specified

Date Collected: 10/02/18 09:35
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 22:32
Analyst: WR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1254 | 42.0 | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.0 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.0 | -- | 1 | B |
| PCBs, Total | 42.0 | | ug/kg | 39.0 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 76 | | 30-150 | B |
| Decachlorobiphenyl | 66 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | A |
| Decachlorobiphenyl | 61 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-04
Client ID: TP-4, 3-4
Sample Location: Not Specified

Date Collected: 10/02/18 09:45
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 22:44
Analyst: WR
Percent Solids: 30%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-----|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 110 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 110 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 110 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 49 | | 30-150 | B |
| Decachlorobiphenyl | 42 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 52 | | 30-150 | A |
| Decachlorobiphenyl | 42 | | 30-150 | A |

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-05

Date Collected: 10/02/18 10:00

Client ID: TP-5, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8082A

Extraction Date: 10/08/18 08:34

Analytical Date: 10/11/18 22:56

Cleanup Method: EPA 3665A

Analyst: WR

Cleanup Date: 10/08/18

Percent Solids: 68%

Cleanup Method: EPA 3660B

Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1260 | 82.3 | P | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 47.2 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 47.2 | -- | 1 | B |
| PCBs, Total | 82.3 | | ug/kg | 47.2 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | B |
| Decachlorobiphenyl | 92 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 66 | | 30-150 | A |
| Decachlorobiphenyl | 80 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-06
Client ID: TP-6, 2-3
Sample Location: Not Specified

Date Collected: 10/02/18 10:15
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 23:09
Analyst: WR
Percent Solids: 62%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 52.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 52.4 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 52.4 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 69 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 76 | | 30-150 | A |
| Decachlorobiphenyl | 60 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-07
Client ID: TP-7, 3-4
Sample Location: Not Specified

Date Collected: 10/02/18 10:30
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 23:21
Analyst: WR
Percent Solids: 38%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 87.3 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 87.3 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 87.3 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | B |
| Decachlorobiphenyl | 66 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 30-150 | A |
| Decachlorobiphenyl | 62 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-08
Client ID: TP-8, 2-3
Sample Location: Not Specified

Date Collected: 10/02/18 10:45
Date Received: 10/03/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 10/11/18 23:33
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 10/08/18 08:34
Cleanup Method: EPA 3665A
Cleanup Date: 10/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 36.6 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 36.6 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 36.6 | -- | 1 | B |
| PCBs, Total | ND | | ug/kg | 36.6 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 67 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | A |
| Decachlorobiphenyl | 85 | | 30-150 | A |

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 10/09/18 22:40
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 10/07/18 19:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/08/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/09/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-08 Batch: WG1165265-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 32.7 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 32.7 | -- | A |
| PCBs, Total | ND | | ug/kg | 32.7 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 30-150 | B |
| Decachlorobiphenyl | 75 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 90 | | 30-150 | A |
| Decachlorobiphenyl | 70 | | 30-150 | A |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-08 Batch: WG1165265-2 WG1165265-3 | | | | | | | | | |
| Aroclor 1016 | 70 | | 73 | | 40-140 | 4 | | 30 | A |
| Aroclor 1260 | 62 | | 65 | | 40-140 | 5 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 86 | | 30-150 | B |
| Decachlorobiphenyl | 69 | | 70 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 88 | | 30-150 | A |
| Decachlorobiphenyl | 62 | | 62 | | 30-150 | A |

METALS

Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-01

Date Collected: 10/02/18 09:15

Client ID: TP-1, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.50 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 1.57 | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 632 | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.250 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 8.00 | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 6.12 | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 61.2 | | mg/kg | 2.50 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 10.8 | | mg/kg | 1.25 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.50 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.50 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 6.54 | | mg/kg | 0.500 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 942 | | mg/kg | 2.50 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:04 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-02

Date Collected: 10/02/18 09:25

Client ID: TP-2, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.35 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 1.79 | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 595 | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.235 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 0.499 | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 8.37 | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 76.0 | | mg/kg | 2.35 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 4.99 | | mg/kg | 1.18 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.35 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.35 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 12.8 | | mg/kg | 0.471 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 54.0 | | mg/kg | 2.35 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:09 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-03

Date Collected: 10/02/18 09:35

Client ID: TP-3, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.42 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 2.33 | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 1130 | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.242 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | ND | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 5.45 | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 62.9 | | mg/kg | 2.42 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 4.62 | | mg/kg | 1.21 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.42 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.42 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 5.82 | | mg/kg | 0.484 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 53.2 | | mg/kg | 2.42 | -- | 1 | 10/11/18 19:29 | 10/12/18 00:13 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-04

Date Collected: 10/02/18 09:45

Client ID: TP-4, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 30%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 6.54 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 2.73 | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 132 | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.654 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 4.48 | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 18.5 | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 274 | | mg/kg | 6.54 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 10.5 | | mg/kg | 3.27 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 6.54 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 6.54 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 9.34 | | mg/kg | 1.31 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 648 | | mg/kg | 6.54 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:46 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-05

Date Collected: 10/02/18 10:00

Client ID: TP-5, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 68%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | 27.6 | | mg/kg | 2.85 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 12.2 | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 484 | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.285 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 38.7 | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 104 | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 690 | | mg/kg | 2.85 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 54.5 | | mg/kg | 1.43 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 4.93 | | mg/kg | 2.85 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.85 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 39.8 | | mg/kg | 0.571 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:51 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 1510 | | mg/kg | 14.3 | -- | 5 | 10/11/18 19:29 | 10/12/18 03:37 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

SAMPLE RESULTS

Lab ID: L1839763-06

Date Collected: 10/02/18 10:15

Client ID: TP-6, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 62%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------|-------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | 6.11 | | mg/kg | 3.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 5.77 | | mg/kg | 0.619 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 15600 | | mg/kg | 6.19 | -- | 10 | 10/11/18 19:29 | 10/12/18 03:41 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | 0.545 | | mg/kg | 0.310 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 2.64 | | mg/kg | 0.619 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 348 | | mg/kg | 0.619 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 5150 | | mg/kg | 3.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 65.0 | | mg/kg | 1.55 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 12.3 | | mg/kg | 3.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.619 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 3.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 143 | | mg/kg | 0.619 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 807 | | mg/kg | 3.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 01:55 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-07

Date Collected: 10/02/18 10:30

Client ID: TP-7, 3-4

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 38%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | 7.83 | | mg/kg | 5.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 4.42 | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 3520 | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.510 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 1.64 | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 84.5 | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 389 | | mg/kg | 5.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 34.7 | | mg/kg | 2.55 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 6.89 | | mg/kg | 5.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 5.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 33.4 | | mg/kg | 1.02 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 400 | | mg/kg | 5.10 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:00 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**SAMPLE RESULTS**

Lab ID: L1839763-08

Date Collected: 10/02/18 10:45

Client ID: TP-8, 2-3

Date Received: 10/03/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | 6.23 | | mg/kg | 2.29 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 7.55 | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 658 | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.229 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 13.3 | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 79.3 | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 2970 | | mg/kg | 2.29 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 26.2 | | mg/kg | 1.14 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 4.13 | | mg/kg | 2.29 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.29 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 36.4 | | mg/kg | 0.458 | -- | 1 | 10/11/18 19:29 | 10/12/18 02:05 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 7430 | | mg/kg | 22.9 | -- | 10 | 10/11/18 19:29 | 10/12/18 03:46 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.

Lab Number: L1839763

Project Number: SE18-1375

Report Date: 10/14/18

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1167150-1 | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Arsenic, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Barium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.200 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Cadmium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Chromium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Lead, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Nickel, Total | ND | | mg/kg | 1.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Vanadium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |
| Zinc, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/11/18 19:29 | 10/11/18 23:41 | 97,6010D | AB |

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1839763

Report Date: 10/14/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1167150-2 WG1167150-3 SRM Lot Number: D102-540 | | | | | | | | |
| Antimony, Total | 174 | | 157 | | 1-199 | 10 | | 30 |
| Arsenic, Total | 99 | | 91 | | 83-117 | 8 | | 30 |
| Barium, Total | 106 | | 94 | | 83-118 | 12 | | 30 |
| Beryllium, Total | 102 | | 88 | | 83-116 | 15 | | 30 |
| Cadmium, Total | 100 | | 100 | | 83-118 | 0 | | 30 |
| Chromium, Total | 99 | | 87 | | 83-117 | 13 | | 30 |
| Lead, Total | 98 | | 92 | | 82-118 | 6 | | 30 |
| Nickel, Total | 98 | | 91 | | 83-117 | 7 | | 30 |
| Selenium, Total | 100 | | 94 | | 79-121 | 6 | | 30 |
| Silver, Total | 101 | | 90 | | 80-120 | 12 | | 30 |
| Thallium, Total | 100 | | 98 | | 81-119 | 2 | | 30 |
| Vanadium, Total | 98 | | 87 | | 80-120 | 12 | | 30 |
| Zinc, Total | 96 | | 89 | | 81-118 | 8 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-01**Client ID:** TP-1, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 09:15**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 78.8 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-02**Client ID:** TP-2, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 09:25**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 80.7 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-03**Client ID:** TP-3, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 09:35**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 82.1 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-04**Client ID:** TP-4, 3-4**Sample Location:** Not Specified**Date Collected:** 10/02/18 09:45**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 30.3 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-05**Client ID:** TP-5, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 10:00**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 68.1 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-06**Client ID:** TP-6, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 10:15**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 62.1 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-07**Client ID:** TP-7, 3-4**Sample Location:** Not Specified**Date Collected:** 10/02/18 10:30**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 37.5 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1839763**Report Date:** 10/14/18**SAMPLE RESULTS****Lab ID:** L1839763-08**Client ID:** TP-8, 2-3**Sample Location:** Not Specified**Date Collected:** 10/02/18 10:45**Date Received:** 10/03/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 85.7 | | % | 0.100 | NA | 1 | - | 10/04/18 15:43 | 121,2540G | RI |



Project Name: MCCABE ST.
Project Number: SE18-1375

Serial_No:10141819:02
Lab Number: L1839763
Report Date: 10/14/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|--------------|------------------------------|--------|------------|----------|------------|------|--------|------------------|---|
| L1839763-01D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-01E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-02D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-02E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-03D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-03E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-04A | Vial MeOH preserved | A | NA | | 3.7 | Y | Absent | | MCP-8260HLW-10(14) |
| L1839763-04B | Vial water preserved | A | NA | | 3.7 | Y | Absent | 02-OCT-18 16:00 | MCP-8260HLW-10(14) |
| L1839763-04C | Vial water preserved | A | NA | | 3.7 | Y | Absent | 02-OCT-18 16:00 | MCP-8260HLW-10(14) |

Project Name: MCCABE ST.
Project Number: SE18-1375

Serial_No:10141819:02
Lab Number: L1839763
Report Date: 10/14/18

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|---|
| L1839763-04D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-04E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-05D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-05E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-06D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-06E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-07D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-07E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1839763-08D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1839763-08E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1839763
Report Date: 10/14/18

GLOSSARY

Acronyms

| | |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18**Data Qualifiers**

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: MCCABE ST.**Lab Number:** L1839763**Project Number:** SE18-1375**Report Date:** 10/14/18

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



8 Walkup Drive
Westboro, MA 01581
Tel: 508-896-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/3/18

ALPHA Job #: L1839763

Client Information

Client: SITEC Environmental

Address: 769 Plain St, Unit C

Marshallfield, MA 02050

Phone: 781-319-0100

Email: gsouza@sitecenv.com

Additional Project Information:

Samples frozen 10/2 @ 16:00

Project Information

Project Name: McLabe St

Project Location:

Project #: SE18-1375

Project Manager: Geoff Souza

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☒ TRADE ☐ EMAIL

Billing Information

☐ Same as Client info ☐ PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP MCP
☐ Other State /Fed Program Criteria S-1

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler Initials | VOC: | SVOC: | METAL | METAL | EPH: | VPH: L | PCB | TPH: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|------------|--|------------------|---------------------|------|-------|-------|-------|------|--------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|--------------------------------|-----------|------------|--|------------------|---------------------|------|-------|-------|-------|------|--------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type

V G F G

Preservative

E A A A

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Method Blank Summary
Form 4
VOLATILES

| | | | |
|---------------|-----------------------------|----------------|------------------|
| Client | : Sitec Environmental, Inc. | Lab Number | : L1839763 |
| Project Name | : MCCABE ST. | Project Number | : SE18-1375 |
| Lab Sample ID | : WG1166812-5 | Lab File ID | : V00181010A05 |
| Instrument ID | : VOA100 | | |
| Matrix | : SOIL | Analysis Date | : 10/10/18 08:21 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|-------------------|---------------|----------------|
| WG1166812-3LCS | WG1166812-3 | 10/10/18 06:38 |
| WG1166812-4LCSD | WG1166812-4 | 10/10/18 07:04 |
| TP-4, 3-4 | L1839763-04D | 10/10/18 10:06 |

Continuing Calibration Form 7

Client : Sitec Environmental, Inc.
 Project Name : MCCABE ST.
 Instrument ID : VOA100
 Lab File ID : V00181010A01
 Sample No : WG1166812-2
 Channel :

Lab Number : L1839763
 Project Number : SE18-1375
 Calibration Date : 10/10/18 06:38
 Init. Calib. Date(s) : 08/02/18 08/02/18
 Init. Calib. Times : 20:03 23:32

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---------------------------|----------|--------|---------|-------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 168 | 0 |
| Dichlorodifluoromethane | 0.229 | 0.198 | - | 13.5 | 20 | 151 | 0 |
| Chloromethane | 0.295 | 0.255 | - | 13.6 | 20 | 151 | 0 |
| Vinyl chloride | 0.284 | 0.25 | - | 12 | 20 | 145 | 0 |
| Bromomethane | 0.175 | 0.157 | - | 10.3 | 20 | 168 | 0 |
| Chloroethane | 0.172 | 0.16 | - | 7 | 20 | 154 | 0 |
| Trichlorofluoromethane | 0.294 | 0.269 | - | 8.5 | 20 | 146 | 0 |
| Ethyl ether | 0.125 | 0.117 | - | 6.4 | 20 | 161 | 0 |
| 1,1-Dichloroethene | 0.202 | 0.173 | - | 14.4 | 20 | 142 | 0 |
| Carbon disulfide | 0.71 | 0.599 | - | 15.6 | 20 | 148 | 0 |
| Freon-113 | 0.208 | 0.169 | - | 18.7 | 20 | 137 | 0 |
| Acrolein | 0.029 | 0.022* | - | 24.1* | 20 | 132 | 0 |
| Methylene chloride | 0.266 | 0.227 | - | 14.7 | 20 | 156 | 0 |
| Acetone | 20 | 16.856 | - | 15.7 | 20 | 152 | 0 |
| trans-1,2-Dichloroethene | 0.233 | 0.202 | - | 13.3 | 20 | 144 | 0 |
| Methyl acetate | 0.114 | 0.108 | - | 5.3 | 20 | 176 | 0 |
| Methyl tert-butyl ether | 0.567 | 0.513 | - | 9.5 | 20 | 155 | 0 |
| tert-Butyl alcohol | 0.017 | 0.017* | - | 0 | 20 | 158 | 0 |
| Diisopropyl ether | 0.809 | 0.684 | - | 15.5 | 20 | 143 | 0 |
| 1,1-Dichloroethane | 0.447 | 0.4 | - | 10.5 | 20 | 150 | 0 |
| Halothane | 0.174 | 0.145 | - | 16.7 | 20 | 134 | 0 |
| Acrylonitrile | 20 | 18.778 | - | 6.1 | 20 | 169 | 0 |
| Ethyl tert-butyl ether | 0.686 | 0.594 | - | 13.4 | 20 | 147 | 0 |
| Vinyl acetate | 0.473 | 0.368 | - | 22.2* | 20 | 130 | 0 |
| cis-1,2-Dichloroethene | 0.248 | 0.22 | - | 11.3 | 20 | 147 | 0 |
| 2,2-Dichloropropane | 0.329 | 0.289 | - | 12.2 | 20 | 146 | 0 |
| Bromochloromethane | 0.099 | 0.102 | - | -3 | 20 | 164 | 0 |
| Cyclohexane | 0.385 | 0.319 | - | 17.1 | 20 | 129 | 0 |
| Chloroform | 0.416 | 0.375 | - | 9.9 | 20 | 149 | 0 |
| Ethyl acetate | 0.167 | 0.156 | - | 6.6 | 20 | 157 | 0 |
| Carbon tetrachloride | 0.276 | 0.241 | - | 12.7 | 20 | 140 | 0 |
| Tetrahydrofuran | 20 | 20.509 | - | -2.5 | 20 | 174 | 0 |
| Dibromofluoromethane | 0.235 | 0.24 | - | -2.1 | 20 | 172 | 0 |
| 1,1,1-Trichloroethane | 0.324 | 0.281 | - | 13.3 | 20 | 137 | 0 |
| 2-Butanone | 0.077 | 0.057* | - | 26* | 20 | 115 | .01 |
| 1,1-Dichloropropene | 0.303 | 0.255 | - | 15.8 | 20 | 132 | 0 |
| Benzene | 0.948 | 0.829 | - | 12.6 | 20 | 145 | 0 |
| tert-Amyl methyl ether | 0.575 | 0.51 | - | 11.3 | 20 | 151 | 0 |
| 1,2-Dichloroethane-d4 | 0.24 | 0.229 | - | 4.6 | 20 | 164 | 0 |
| 1,2-Dichloroethane | 0.269 | 0.244 | - | 9.3 | 20 | 151 | 0 |
| Methyl cyclohexane | 0.375 | 0.309 | - | 17.6 | 20 | 129 | 0 |
| Trichloroethene | 0.225 | 0.201 | - | 10.7 | 20 | 144 | 0 |
| Dibromomethane | 0.113 | 0.113 | - | 0 | 20 | 163 | 0 |
| 1,2-Dichloropropane | 0.236 | 0.221 | - | 6.4 | 20 | 154 | 0 |
| 2-Chloroethyl vinyl ether | 0.086 | 0.062 | - | 27.9* | 20 | 135 | 0 |

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Sitec Environmental, Inc.
 Project Name : MCCABE ST.
 Instrument ID : VOA100
 Lab File ID : V00181010A01
 Sample No : WG1166812-2
 Channel :

Lab Number : L1839763
 Project Number : SE18-1375
 Calibration Date : 10/10/18 06:38
 Init. Calib. Date(s) : 08/02/18 08/02/18
 Init. Calib. Times : 20:03 23:32

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|---------|---------|-------|--------|-------|----------|
| Bromodichloromethane | 0.281 | 0.271 | - | 3.6 | 20 | 157 | 0 |
| 1,4-Dioxane | 0.00166 | 0.0016* | - | 3.6 | 20 | 152 | 0 |
| cis-1,3-Dichloropropene | 0.343 | 0.325 | - | 5.2 | 20 | 152 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 168 | 0 |
| Toluene-d8 | 1.421 | 1.392 | - | 2 | 20 | 164 | 0 |
| Toluene | 0.843 | 0.743 | - | 11.9 | 20 | 146 | 0 |
| 4-Methyl-2-pentanone | 0.094 | 0.083* | - | 11.7 | 20 | 150 | 0 |
| Tetrachloroethene | 0.32 | 0.29 | - | 9.4 | 20 | 139 | 0 |
| trans-1,3-Dichloropropene | 20 | 18.141 | - | 9.3 | 20 | 159 | 0 |
| Ethyl methacrylate | 0.353 | 0.3 | - | 15 | 20 | 140 | 0 |
| 1,1,2-Trichloroethane | 0.206 | 0.215 | - | -4.4 | 20 | 167 | 0 |
| Chlorodibromomethane | 0.274 | 0.271 | - | 1.1 | 20 | 163 | 0 |
| 1,3-Dichloropropane | 0.437 | 0.429 | - | 1.8 | 20 | 159 | 0 |
| 1,2-Dibromoethane | 0.221 | 0.228 | - | -3.2 | 20 | 164 | 0 |
| 2-Hexanone | 0.16 | 0.136 | - | 15 | 20 | 136 | 0 |
| Chlorobenzene | 0.885 | 0.784 | - | 11.4 | 20 | 147 | 0 |
| Ethylbenzene | 1.575 | 1.347 | - | 14.5 | 20 | 140 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.286 | 0.274 | - | 4.2 | 20 | 153 | 0 |
| p/m Xylene | 0.588 | 0.511 | - | 13.1 | 20 | 140 | 0 |
| o Xylene | 0.572 | 0.493 | - | 13.8 | 20 | 140 | 0 |
| Styrene | 0.938 | 0.807 | - | 14 | 20 | 138 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 171 | 0 |
| Bromoform | 0.337 | 0.342 | - | -1.5 | 20 | 176 | 0 |
| Isopropylbenzene | 3.02 | 2.511 | - | 16.9 | 20 | 136 | 0 |
| 4-Bromofluorobenzene | 1.036 | 0.973 | - | 6.1 | 20 | 161 | 0 |
| Bromobenzene | 0.705 | 0.641 | - | 9.1 | 20 | 151 | 0 |
| n-Propylbenzene | 3.699 | 3.167 | - | 14.4 | 20 | 141 | 0 |
| 1,4-Dichlorobutane | 0.897 | 0.841 | - | 6.2 | 20 | 158 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.612 | 0.646 | - | -5.6 | 20 | 174 | 0 |
| 4-Ethyltoluene | 3.102 | 2.514 | - | 19 | 20 | 135 | 0 |
| 2-Chlorotoluene | 2.221 | 2.064 | - | 7.1 | 20 | 158 | 0 |
| 1,3,5-Trimethylbenzene | 2.558 | 2.17 | - | 15.2 | 20 | 141 | 0 |
| 1,2,3-Trichloropropane | 0.484 | 0.493 | - | -1.9 | 20 | 167 | 0 |
| trans-1,4-Dichloro-2-buten | 0.168 | 0.155 | - | 7.7 | 20 | 162 | 0 |
| 4-Chlorotoluene | 2.225 | 1.878 | - | 15.6 | 20 | 143 | 0 |
| tert-Butylbenzene | 2.1 | 1.744 | - | 17 | 20 | 137 | 0 |
| 1,2,4-Trimethylbenzene | 2.539 | 2.158 | - | 15 | 20 | 142 | 0 |
| sec-Butylbenzene | 3.195 | 2.773 | - | 13.2 | 20 | 142 | 0 |
| p-Isopropyltoluene | 2.685 | 2.286 | - | 14.9 | 20 | 139 | 0 |
| 1,3-Dichlorobenzene | 1.348 | 1.218 | - | 9.6 | 20 | 150 | 0 |
| 1,4-Dichlorobenzene | 1.37 | 1.264 | - | 7.7 | 20 | 157 | 0 |
| p-Diethylbenzene | 1.665 | 1.332 | - | 20 | 20 | 132 | 0 |
| n-Butylbenzene | 2.585 | 2.282 | - | 11.7 | 20 | 146 | 0 |
| 1,2-Dichlorobenzene | 1.219 | 1.134 | - | 7 | 20 | 157 | 0 |
| 1,2,4,5-Tetramethylbenzene | 2.578 | 2.006 | - | 22.2* | 20 | 131 | 0 |

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Sitec Environmental, Inc.
 Project Name : MCCABE ST.
 Instrument ID : VOA100
 Lab File ID : V00181010A01
 Sample No : WG1166812-2
 Channel :

Lab Number : L1839763
 Project Number : SE18-1375
 Calibration Date : 10/10/18 06:38
 Init. Calib. Date(s) : 08/02/18 08/02/18
 Init. Calib. Times : 20:03 23:32

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|------|--------|-------|----------|
| 1,2-Dibromo-3-chloropropan | 20 | 18.342 | - | 8.3 | 20 | 163 | 0 |
| 1,3,5-Trichlorobenzene | 1.018 | 0.877 | - | 13.9 | 20 | 143 | 0 |
| Hexachlorobutadiene | 0.477 | 0.401 | - | 15.9 | 20 | 136 | 0 |
| 1,2,4-Trichlorobenzene | 0.868 | 0.776 | - | 10.6 | 20 | 148 | 0 |
| Naphthalene | 1.798 | 1.566 | - | 12.9 | 20 | 144 | 0 |
| 1,2,3-Trichlorobenzene | 0.778 | 0.704 | - | 9.5 | 20 | 151 | 0 |

* Value outside of QC limits.





ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L1844061 |
| Client: | Sitec Environmental, Inc. 769 Plain Street Unit C Marshfield, MA 02050 |
| ATTN: | Geoff Souza |
| Phone: | (781) 319-0100 |
| Project Name: | MCCABE ST. |
| Project Number: | SE18-1375 |
| Report Date: | 11/07/18 |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1844061-01 | TP-10 | SOIL | Not Specified | 10/26/18 08:20 | 10/29/18 |
| L1844061-02 | TP-11 | SOIL | Not Specified | 10/26/18 08:45 | 10/29/18 |
| L1844061-03 | TP-12 | SOIL | Not Specified | 10/26/18 08:55 | 10/29/18 |
| L1844061-04 | TP-15 | SOIL | Not Specified | 10/26/18 09:30 | 10/29/18 |
| L1844061-05 | TP-16 | SOIL | Not Specified | 10/26/18 09:45 | 10/29/18 |
| L1844061-06 | TP-17 | SOIL | Not Specified | 10/26/18 10:00 | 10/29/18 |
| L1844061-07 | TP-18 | SOIL | Not Specified | 10/26/18 10:30 | 10/29/18 |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| | | |
|--|---|-----|
| An affirmative response to questions A through F is required for "Presumptive Certainty" status | | |
| A | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| E b. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A response to questions G, H and I is required for "Presumptive Certainty" status | | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | NO |
| H | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |
| I | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | NO |
| For any questions answered "No", please refer to the case narrative section on the following page(s). | | |

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Volatile Organics

In reference to question G:

L1844061-02: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The initial calibration, associated with L1844061-02, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0733) and 1,4-dioxane (0.0013), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane.

The continuing calibration standard, associated with L1844061-02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

PAHs

L1844061-05: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question G:

L1844061-03 and -05: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

PCBs

L1844061-03, -04, and -05 contain peaks which match the retention times for Aroclor 1268, but do not match the area ratios typical for this aroclor. The result for Aroclor 1268 is reported as "altered".

In reference to question G:

L1844061-03: One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

Case Narrative (continued)

In reference to question H:

The surrogate recoveries for the following samples are outside the acceptance criteria for decachlorobiphenyl; however, the samples were not re-extracted due to coelution with Aroclor 1268. The results are not considered to be biased:

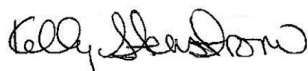
L1844061-03: 1630%/2080%

L1844061-04: 155%/162%

L1844061-05: 437%/521%

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 11/07/18

ORGANICS

VOLATILES

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-02 D

Date Collected: 10/26/18 08:45

Client ID: TP-11

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 97,8260C

Analytical Date: 11/06/18 10:40

Analyst: JC

Percent Solids: 17%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|-------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/kg | 44000 | -- | 10 |
| 1,1-Dichloroethane | ND | | ug/kg | 8800 | -- | 10 |
| Chloroform | ND | | ug/kg | 13000 | -- | 10 |
| Carbon tetrachloride | ND | | ug/kg | 8800 | -- | 10 |
| 1,2-Dichloropropane | ND | | ug/kg | 8800 | -- | 10 |
| Dibromochloromethane | ND | | ug/kg | 8800 | -- | 10 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 8800 | -- | 10 |
| Tetrachloroethene | ND | | ug/kg | 4400 | -- | 10 |
| Chlorobenzene | ND | | ug/kg | 4400 | -- | 10 |
| Trichlorofluoromethane | ND | | ug/kg | 35000 | -- | 10 |
| 1,2-Dichloroethane | ND | | ug/kg | 8800 | -- | 10 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 4400 | -- | 10 |
| Bromodichloromethane | ND | | ug/kg | 4400 | -- | 10 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 8800 | -- | 10 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 4400 | -- | 10 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 4400 | -- | 10 |
| 1,1-Dichloropropene | ND | | ug/kg | 4400 | -- | 10 |
| Bromoform | ND | | ug/kg | 35000 | -- | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 4400 | -- | 10 |
| Benzene | 12000 | | ug/kg | 4400 | -- | 10 |
| Toluene | ND | | ug/kg | 8800 | -- | 10 |
| Ethylbenzene | 160000 | | ug/kg | 8800 | -- | 10 |
| Chloromethane | ND | | ug/kg | 35000 | -- | 10 |
| Bromomethane | ND | | ug/kg | 18000 | -- | 10 |
| Vinyl chloride | ND | | ug/kg | 8800 | -- | 10 |
| Chloroethane | ND | | ug/kg | 18000 | -- | 10 |
| 1,1-Dichloroethene | ND | | ug/kg | 8800 | -- | 10 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 13000 | -- | 10 |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-02 D

Date Collected: 10/26/18 08:45

Client ID: TP-11

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|---------|-----------|-------|-------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| Trichloroethene | ND | | ug/kg | 4400 | -- | 10 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 18000 | -- | 10 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 18000 | -- | 10 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 18000 | -- | 10 |
| Methyl tert butyl ether | ND | | ug/kg | 18000 | -- | 10 |
| p/m-Xylene | 79000 | | ug/kg | 18000 | -- | 10 |
| o-Xylene | 59000 | | ug/kg | 8800 | -- | 10 |
| Xylenes, Total | 140000 | | ug/kg | 8800 | -- | 10 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 8800 | -- | 10 |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 8800 | -- | 10 |
| Dibromomethane | ND | | ug/kg | 18000 | -- | 10 |
| 1,2,3-Trichloropropane | ND | | ug/kg | 18000 | -- | 10 |
| Styrene | ND | | ug/kg | 8800 | -- | 10 |
| Dichlorodifluoromethane | ND | | ug/kg | 88000 | -- | 10 |
| Acetone | ND | | ug/kg | 88000 | -- | 10 |
| Carbon disulfide | ND | | ug/kg | 88000 | -- | 10 |
| Methyl ethyl ketone | ND | | ug/kg | 88000 | -- | 10 |
| Methyl isobutyl ketone | ND | | ug/kg | 88000 | -- | 10 |
| 2-Hexanone | ND | | ug/kg | 88000 | -- | 10 |
| Bromochloromethane | ND | | ug/kg | 18000 | -- | 10 |
| Tetrahydrofuran | ND | | ug/kg | 35000 | -- | 10 |
| 2,2-Dichloropropane | ND | | ug/kg | 18000 | -- | 10 |
| 1,2-Dibromoethane | ND | | ug/kg | 8800 | -- | 10 |
| 1,3-Dichloropropane | ND | | ug/kg | 18000 | -- | 10 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/kg | 4400 | -- | 10 |
| Bromobenzene | ND | | ug/kg | 18000 | -- | 10 |
| n-Butylbenzene | ND | | ug/kg | 8800 | -- | 10 |
| sec-Butylbenzene | ND | | ug/kg | 8800 | -- | 10 |
| tert-Butylbenzene | ND | | ug/kg | 18000 | -- | 10 |
| o-Chlorotoluene | ND | | ug/kg | 18000 | -- | 10 |
| p-Chlorotoluene | ND | | ug/kg | 18000 | -- | 10 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 26000 | -- | 10 |
| Hexachlorobutadiene | ND | | ug/kg | 35000 | -- | 10 |
| Isopropylbenzene | 29000 | | ug/kg | 8800 | -- | 10 |
| p-Isopropyltoluene | ND | | ug/kg | 8800 | -- | 10 |
| Naphthalene | 1800000 | | ug/kg | 35000 | -- | 10 |
| n-Propylbenzene | 32000 | | ug/kg | 8800 | -- | 10 |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-02 D

Date Collected: 10/26/18 08:45

Client ID: TP-11

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|--------|-----|-----------------|
| MCP Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 18000 | -- | 10 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 18000 | -- | 10 |
| 1,3,5-Trimethylbenzene | 24000 | | ug/kg | 18000 | -- | 10 |
| 1,2,4-Trimethylbenzene | 120000 | | ug/kg | 18000 | -- | 10 |
| Diethyl ether | ND | | ug/kg | 18000 | -- | 10 |
| Diisopropyl Ether | ND | | ug/kg | 18000 | -- | 10 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/kg | 18000 | -- | 10 |
| Tertiary-Amyl Methyl Ether | ND | | ug/kg | 18000 | -- | 10 |
| 1,4-Dioxane | ND | | ug/kg | 880000 | -- | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 103 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 11/06/18 07:59
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Volatile Organics by 5035 High - Westborough Lab for sample(s): 02 Batch: WG1176392-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | -- |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | -- |
| Chloroform | ND | | ug/kg | 75 | -- |
| Carbon tetrachloride | ND | | ug/kg | 50 | -- |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | -- |
| Dibromochloromethane | ND | | ug/kg | 50 | -- |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | -- |
| Tetrachloroethene | ND | | ug/kg | 25 | -- |
| Chlorobenzene | ND | | ug/kg | 25 | -- |
| Trichlorofluoromethane | ND | | ug/kg | 200 | -- |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | -- |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | -- |
| Bromodichloromethane | ND | | ug/kg | 25 | -- |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | -- |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | -- |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 25 | -- |
| 1,1-Dichloropropene | ND | | ug/kg | 25 | -- |
| Bromoform | ND | | ug/kg | 200 | -- |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | -- |
| Benzene | ND | | ug/kg | 25 | -- |
| Toluene | ND | | ug/kg | 50 | -- |
| Ethylbenzene | ND | | ug/kg | 50 | -- |
| Chloromethane | ND | | ug/kg | 200 | -- |
| Bromomethane | ND | | ug/kg | 100 | -- |
| Vinyl chloride | ND | | ug/kg | 50 | -- |
| Chloroethane | ND | | ug/kg | 100 | -- |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | -- |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | -- |
| Trichloroethene | ND | | ug/kg | 25 | -- |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 11/06/18 07:59
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Volatile Organics by 5035 High - Westborough Lab for sample(s): 02 Batch: WG1176392-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | -- |
| Methyl tert butyl ether | ND | | ug/kg | 100 | -- |
| p/m-Xylene | ND | | ug/kg | 100 | -- |
| o-Xylene | ND | | ug/kg | 50 | -- |
| Xylenes, Total | ND | | ug/kg | 50 | -- |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | -- |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 50 | -- |
| Dibromomethane | ND | | ug/kg | 100 | -- |
| 1,2,3-Trichloropropane | ND | | ug/kg | 100 | -- |
| Styrene | ND | | ug/kg | 50 | -- |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | -- |
| Acetone | ND | | ug/kg | 500 | -- |
| Carbon disulfide | ND | | ug/kg | 500 | -- |
| Methyl ethyl ketone | ND | | ug/kg | 500 | -- |
| Methyl isobutyl ketone | ND | | ug/kg | 500 | -- |
| 2-Hexanone | ND | | ug/kg | 500 | -- |
| Bromochloromethane | ND | | ug/kg | 100 | -- |
| Tetrahydrofuran | ND | | ug/kg | 200 | -- |
| 2,2-Dichloropropane | ND | | ug/kg | 100 | -- |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | -- |
| 1,3-Dichloropropane | ND | | ug/kg | 100 | -- |
| 1,1,1,2-Tetrachloroethane | ND | | ug/kg | 25 | -- |
| Bromobenzene | ND | | ug/kg | 100 | -- |
| n-Butylbenzene | ND | | ug/kg | 50 | -- |
| sec-Butylbenzene | ND | | ug/kg | 50 | -- |
| tert-Butylbenzene | ND | | ug/kg | 100 | -- |
| o-Chlorotoluene | ND | | ug/kg | 100 | -- |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 11/06/18 07:59
 Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|-----|
| MCP Volatile Organics by 5035 High - Westborough Lab for sample(s): 02 Batch: WG1176392-5 | | | | | |
| p-Chlorotoluene | ND | | ug/kg | 100 | -- |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | -- |
| Hexachlorobutadiene | ND | | ug/kg | 200 | -- |
| Isopropylbenzene | ND | | ug/kg | 50 | -- |
| p-Isopropyltoluene | ND | | ug/kg | 50 | -- |
| Naphthalene | ND | | ug/kg | 200 | -- |
| n-Propylbenzene | ND | | ug/kg | 50 | -- |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | -- |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 100 | -- |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 100 | -- |
| Diethyl ether | ND | | ug/kg | 100 | -- |
| Diisopropyl Ether | ND | | ug/kg | 100 | -- |
| Ethyl-Tert-Butyl-Ether | ND | | ug/kg | 100 | -- |
| Tertiary-Amyl Methyl Ether | ND | | ug/kg | 100 | -- |
| 1,4-Dioxane | ND | | ug/kg | 5000 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1176392-3 WG1176392-4 | | | | | | | | |
| Methylene chloride | 76 | | 76 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 84 | | 87 | | 70-130 | 4 | | 20 |
| Chloroform | 84 | | 84 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 77 | | 79 | | 70-130 | 3 | | 20 |
| 1,2-Dichloropropane | 88 | | 92 | | 70-130 | 4 | | 20 |
| Dibromochloromethane | 84 | | 88 | | 70-130 | 5 | | 20 |
| 1,1,2-Trichloroethane | 88 | | 91 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | 80 | | 81 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 85 | | 86 | | 70-130 | 1 | | 20 |
| Trichlorofluoromethane | 73 | | 74 | | 70-130 | 1 | | 20 |
| 1,2-Dichloroethane | 88 | | 90 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 81 | | 83 | | 70-130 | 2 | | 20 |
| Bromodichloromethane | 85 | | 87 | | 70-130 | 2 | | 20 |
| trans-1,3-Dichloropropene | 89 | | 92 | | 70-130 | 3 | | 20 |
| cis-1,3-Dichloropropene | 89 | | 92 | | 70-130 | 3 | | 20 |
| 1,1-Dichloropropene | 82 | | 84 | | 70-130 | 2 | | 20 |
| Bromoform | 80 | | 83 | | 70-130 | 4 | | 20 |
| 1,1,2,2-Tetrachloroethane | 92 | | 94 | | 70-130 | 2 | | 20 |
| Benzene | 84 | | 85 | | 70-130 | 1 | | 20 |
| Toluene | 82 | | 84 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 85 | | 86 | | 70-130 | 1 | | 20 |
| Chloromethane | 79 | | 78 | | 70-130 | 1 | | 20 |
| Bromomethane | 76 | | 78 | | 70-130 | 3 | | 20 |

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1176392-3 WG1176392-4 | | | | | | | | |
| Vinyl chloride | 77 | | 76 | | 70-130 | 1 | | 20 |
| Chloroethane | 79 | | 80 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethene | 75 | | 77 | | 70-130 | 3 | | 20 |
| trans-1,2-Dichloroethene | 79 | | 81 | | 70-130 | 3 | | 20 |
| Trichloroethene | 81 | | 82 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 85 | | 85 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 90 | | 94 | | 70-130 | 4 | | 20 |
| p/m-Xylene | 84 | | 85 | | 70-130 | 1 | | 20 |
| o-Xylene | 86 | | 87 | | 70-130 | 1 | | 20 |
| cis-1,2-Dichloroethene | 83 | | 85 | | 70-130 | 2 | | 20 |
| Dibromomethane | 86 | | 87 | | 70-130 | 1 | | 20 |
| 1,2,3-Trichloropropane | 87 | | 93 | | 70-130 | 7 | | 20 |
| Styrene | 76 | | 77 | | 70-130 | 1 | | 20 |
| Dichlorodifluoromethane | 60 | Q | 60 | Q | 70-130 | 0 | | 20 |
| Acetone | 101 | | 102 | | 70-130 | 1 | | 20 |
| Carbon disulfide | 72 | | 73 | | 70-130 | 1 | | 20 |
| Methyl ethyl ketone | 94 | | 103 | | 70-130 | 9 | | 20 |
| Methyl isobutyl ketone | 89 | | 93 | | 70-130 | 4 | | 20 |
| 2-Hexanone | 91 | | 101 | | 70-130 | 10 | | 20 |
| Bromochloromethane | 85 | | 87 | | 70-130 | 2 | | 20 |
| Tetrahydrofuran | 92 | | 101 | | 70-130 | 9 | | 20 |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1176392-3 WG1176392-4 | | | | | | | | |
| 2,2-Dichloropropane | 83 | | 85 | | 70-130 | 2 | | 20 |
| 1,2-Dibromoethane | 87 | | 90 | | 70-130 | 3 | | 20 |
| 1,3-Dichloropropane | 90 | | 93 | | 70-130 | 3 | | 20 |
| 1,1,1,2-Tetrachloroethane | 85 | | 87 | | 70-130 | 2 | | 20 |
| Bromobenzene | 85 | | 85 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| sec-Butylbenzene | 84 | | 84 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 84 | | 84 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 86 | | 85 | | 70-130 | 1 | | 20 |
| p-Chlorotoluene | 89 | | 88 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 78 | | 86 | | 70-130 | 10 | | 20 |
| Hexachlorobutadiene | 81 | | 78 | | 70-130 | 4 | | 20 |
| Isopropylbenzene | 85 | | 85 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 85 | | 84 | | 70-130 | 1 | | 20 |
| Naphthalene | 90 | | 92 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | 85 | | 85 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 90 | | 89 | | 70-130 | 1 | | 20 |
| 1,2,4-Trichlorobenzene | 90 | | 88 | | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | 86 | | 86 | | 70-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 88 | | 87 | | 70-130 | 1 | | 20 |
| Diethyl ether | 89 | | 92 | | 70-130 | 3 | | 20 |
| Diisopropyl Ether | 95 | | 98 | | 70-130 | 3 | | 20 |
| Ethyl-Tert-Butyl-Ether | 93 | | 95 | | 70-130 | 2 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics by 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1176392-3 WG1176392-4 | | | | | | | | |
| Tertiary-Amyl Methyl Ether | 90 | | 93 | | 70-130 | 3 | | 20 |
| 1,4-Dioxane | 83 | | 88 | | 70-130 | 6 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 105 | | 106 | | 70-130 |
| Toluene-d8 | 103 | | 103 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 103 | | 70-130 |
| Dibromofluoromethane | 98 | | 100 | | 70-130 |

SEMIVOLATILES

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-01
Client ID: TP-10
Sample Location: Not Specified

Date Collected: 10/26/18 08:20
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 10/31/18 15:14
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 160 | -- | 1 |
| Fluoranthene | ND | | ug/kg | 120 | -- | 1 |
| Naphthalene | ND | | ug/kg | 200 | -- | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 120 | -- | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 160 | -- | 1 |
| Benzo(b)fluoranthene | ND | | ug/kg | 120 | -- | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 120 | -- | 1 |
| Chrysene | ND | | ug/kg | 120 | -- | 1 |
| Acenaphthylene | ND | | ug/kg | 160 | -- | 1 |
| Anthracene | ND | | ug/kg | 120 | -- | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 160 | -- | 1 |
| Fluorene | ND | | ug/kg | 200 | -- | 1 |
| Phenanthrene | ND | | ug/kg | 120 | -- | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 120 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 160 | -- | 1 |
| Pyrene | ND | | ug/kg | 120 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 240 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 60 | | 30-130 |
| 2-Fluorobiphenyl | 61 | | 30-130 |
| 4-Terphenyl-d14 | 52 | | 30-130 |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-02
Client ID: TP-11
Sample Location: Not Specified

Date Collected: 10/26/18 08:45
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 10/31/18 16:53
Analyst: RC
Percent Solids: 17%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 25000 | | ug/kg | 790 | -- | 1 |
| Fluoranthene | 18000 | | ug/kg | 600 | -- | 1 |
| Naphthalene | 240000 | E | ug/kg | 990 | -- | 1 |
| Benzo(a)anthracene | 9200 | | ug/kg | 600 | -- | 1 |
| Benzo(a)pyrene | 7500 | | ug/kg | 790 | -- | 1 |
| Benzo(b)fluoranthene | 6300 | | ug/kg | 600 | -- | 1 |
| Benzo(k)fluoranthene | 2100 | | ug/kg | 600 | -- | 1 |
| Chrysene | 11000 | | ug/kg | 600 | -- | 1 |
| Acenaphthylene | 5600 | | ug/kg | 790 | -- | 1 |
| Anthracene | 9900 | | ug/kg | 600 | -- | 1 |
| Benzo(ghi)perylene | 2200 | | ug/kg | 790 | -- | 1 |
| Fluorene | 28000 | | ug/kg | 990 | -- | 1 |
| Phenanthrene | 71000 | E | ug/kg | 600 | -- | 1 |
| Dibenzo(a,h)anthracene | 700 | | ug/kg | 600 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | 2200 | | ug/kg | 790 | -- | 1 |
| Pyrene | 34000 | | ug/kg | 600 | -- | 1 |
| 2-Methylnaphthalene | 190000 | E | ug/kg | 1200 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 61 | | 30-130 |
| 2-Fluorobiphenyl | 35 | | 30-130 |
| 4-Terphenyl-d14 | 56 | | 30-130 |

Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-02 D

Client ID: TP-11

Sample Location: Not Specified

Date Collected: 10/26/18 08:45

Date Received: 10/29/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 97,8270D

Analytical Date: 11/07/18 09:44

Analyst: ALS

Percent Solids: 17%

Extraction Method: EPA 3546

Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

MCP PAHs - Westborough Lab

| | | | | | | |
|---------------------|--------|--|-------|-------|----|----|
| Naphthalene | 540000 | | ug/kg | 20000 | -- | 20 |
| Phenanthrene | 59000 | | ug/kg | 12000 | -- | 20 |
| 2-Methylnaphthalene | 200000 | | ug/kg | 24000 | -- | 20 |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-03 D

Date Collected: 10/26/18 08:55

Client ID: TP-12

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/30/18 09:26

Analytical Date: 10/31/18 18:08

Analyst: RC

Percent Solids: 31%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 4000 | | ug/kg | 2100 | -- | 5 |
| Fluoranthene | 56000 | | ug/kg | 1600 | -- | 5 |
| Naphthalene | 5400 | | ug/kg | 2600 | -- | 5 |
| Benzo(a)anthracene | 20000 | | ug/kg | 1600 | -- | 5 |
| Benzo(a)pyrene | 16000 | | ug/kg | 2100 | -- | 5 |
| Benzo(b)fluoranthene | 20000 | | ug/kg | 1600 | -- | 5 |
| Benzo(k)fluoranthene | 5800 | | ug/kg | 1600 | -- | 5 |
| Chrysene | 23000 | | ug/kg | 1600 | -- | 5 |
| Acenaphthylene | 7100 | | ug/kg | 2100 | -- | 5 |
| Anthracene | 12000 | | ug/kg | 1600 | -- | 5 |
| Benzo(ghi)perylene | 7800 | | ug/kg | 2100 | -- | 5 |
| Fluorene | 6400 | | ug/kg | 2600 | -- | 5 |
| Phenanthrene | 37000 | | ug/kg | 1600 | -- | 5 |
| Dibenzo(a,h)anthracene | 2000 | | ug/kg | 1600 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | 8000 | | ug/kg | 2100 | -- | 5 |
| Pyrene | 56000 | | ug/kg | 1600 | -- | 5 |
| 2-Methylnaphthalene | ND | | ug/kg | 3200 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 32 | | 30-130 |
| 2-Fluorobiphenyl | 62 | | 30-130 |
| 4-Terphenyl-d14 | 74 | | 30-130 |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-04
Client ID: TP-15
Sample Location: Not Specified

Date Collected: 10/26/18 09:30
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 10/31/18 17:18
Analyst: RC
Percent Solids: 60%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 220 | -- | 1 |
| Fluoranthene | 5400 | | ug/kg | 160 | -- | 1 |
| Naphthalene | 280 | | ug/kg | 270 | -- | 1 |
| Benzo(a)anthracene | 2000 | | ug/kg | 160 | -- | 1 |
| Benzo(a)pyrene | 1800 | | ug/kg | 220 | -- | 1 |
| Benzo(b)fluoranthene | 2400 | | ug/kg | 160 | -- | 1 |
| Benzo(k)fluoranthene | 560 | | ug/kg | 160 | -- | 1 |
| Chrysene | 2600 | | ug/kg | 160 | -- | 1 |
| Acenaphthylene | 810 | | ug/kg | 220 | -- | 1 |
| Anthracene | 840 | | ug/kg | 160 | -- | 1 |
| Benzo(ghi)perylene | 900 | | ug/kg | 220 | -- | 1 |
| Fluorene | 380 | | ug/kg | 270 | -- | 1 |
| Phenanthrene | 4100 | | ug/kg | 160 | -- | 1 |
| Dibenzo(a,h)anthracene | 240 | | ug/kg | 160 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | 890 | | ug/kg | 220 | -- | 1 |
| Pyrene | 6300 | | ug/kg | 160 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 330 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 66 | | 30-130 |
| 2-Fluorobiphenyl | 64 | | 30-130 |
| 4-Terphenyl-d14 | 61 | | 30-130 |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-05 D

Date Collected: 10/26/18 09:45

Client ID: TP-16

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/30/18 09:26

Analytical Date: 11/07/18 10:09

Analyst: ALS

Percent Solids: 73%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|------|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 890 | -- | 5 |
| Fluoranthene | 2400 | | ug/kg | 660 | -- | 5 |
| Naphthalene | ND | | ug/kg | 1100 | -- | 5 |
| Benzo(a)anthracene | 1000 | | ug/kg | 660 | -- | 5 |
| Benzo(a)pyrene | ND | | ug/kg | 890 | -- | 5 |
| Benzo(b)fluoranthene | 1000 | | ug/kg | 660 | -- | 5 |
| Benzo(k)fluoranthene | ND | | ug/kg | 660 | -- | 5 |
| Chrysene | 1100 | | ug/kg | 660 | -- | 5 |
| Acenaphthylene | ND | | ug/kg | 890 | -- | 5 |
| Anthracene | ND | | ug/kg | 660 | -- | 5 |
| Benzo(ghi)perylene | ND | | ug/kg | 890 | -- | 5 |
| Fluorene | ND | | ug/kg | 1100 | -- | 5 |
| Phenanthrene | 1700 | | ug/kg | 660 | -- | 5 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 660 | -- | 5 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 890 | -- | 5 |
| Pyrene | 2100 | | ug/kg | 660 | -- | 5 |
| 2-Methylnaphthalene | ND | | ug/kg | 1300 | -- | 5 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 46 | | 30-130 |
| 2-Fluorobiphenyl | 36 | | 30-130 |
| 4-Terphenyl-d14 | 29 | Q | 30-130 |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-06
Client ID: TP-17
Sample Location: Not Specified

Date Collected: 10/26/18 10:00
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 10/31/18 15:39
Analyst: RC
Percent Solids: 37%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | ND | | ug/kg | 360 | -- | 1 |
| Fluoranthene | ND | | ug/kg | 270 | -- | 1 |
| Naphthalene | 610 | | ug/kg | 450 | -- | 1 |
| Benzo(a)anthracene | ND | | ug/kg | 270 | -- | 1 |
| Benzo(a)pyrene | ND | | ug/kg | 360 | -- | 1 |
| Benzo(b)fluoranthene | ND | | ug/kg | 270 | -- | 1 |
| Benzo(k)fluoranthene | ND | | ug/kg | 270 | -- | 1 |
| Chrysene | ND | | ug/kg | 270 | -- | 1 |
| Acenaphthylene | ND | | ug/kg | 360 | -- | 1 |
| Anthracene | ND | | ug/kg | 270 | -- | 1 |
| Benzo(ghi)perylene | ND | | ug/kg | 360 | -- | 1 |
| Fluorene | ND | | ug/kg | 450 | -- | 1 |
| Phenanthrene | ND | | ug/kg | 270 | -- | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 270 | -- | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 360 | -- | 1 |
| Pyrene | ND | | ug/kg | 270 | -- | 1 |
| 2-Methylnaphthalene | ND | | ug/kg | 540 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 63 | | 30-130 |
| 2-Fluorobiphenyl | 60 | | 30-130 |
| 4-Terphenyl-d14 | 48 | | 30-130 |

Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-07 D2

Client ID: TP-18

Sample Location: Not Specified

Date Collected: 10/26/18 10:30

Date Received: 10/29/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 97,8270D

Analytical Date: 11/07/18 10:35

Analyst: ALS

Percent Solids: 84%

Extraction Method: EPA 3546

Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

MCP PAHs - Westborough Lab

| | | | | | | |
|--------------|-------|--|-------|-----|----|---|
| Fluoranthene | 17000 | | ug/kg | 470 | -- | 4 |
| Phenanthrene | 20000 | | ug/kg | 470 | -- | 4 |
| Pyrene | 15000 | | ug/kg | 470 | -- | 4 |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-07 D

Date Collected: 10/26/18 10:30

Client ID: TP-18

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8270D

Extraction Date: 10/30/18 09:26

Analytical Date: 10/31/18 17:43

Analyst: RC

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------|--------|-----------|-------|-----|-----|-----------------|
| MCP PAHs - Westborough Lab | | | | | | |
| Acenaphthene | 1900 | | ug/kg | 320 | -- | 2 |
| Fluoranthene | 22000 | E | ug/kg | 240 | -- | 2 |
| Naphthalene | 1500 | | ug/kg | 390 | -- | 2 |
| Benzo(a)anthracene | 6200 | | ug/kg | 240 | -- | 2 |
| Benzo(a)pyrene | 5600 | | ug/kg | 320 | -- | 2 |
| Benzo(b)fluoranthene | 7500 | | ug/kg | 240 | -- | 2 |
| Benzo(k)fluoranthene | 1900 | | ug/kg | 240 | -- | 2 |
| Chrysene | 6600 | | ug/kg | 240 | -- | 2 |
| Acenaphthylene | 500 | | ug/kg | 320 | -- | 2 |
| Anthracene | 4000 | | ug/kg | 240 | -- | 2 |
| Benzo(ghi)perylene | 3200 | | ug/kg | 320 | -- | 2 |
| Fluorene | 1900 | | ug/kg | 390 | -- | 2 |
| Phenanthrene | 24000 | E | ug/kg | 240 | -- | 2 |
| Dibenzo(a,h)anthracene | 850 | | ug/kg | 240 | -- | 2 |
| Indeno(1,2,3-cd)pyrene | 3300 | | ug/kg | 320 | -- | 2 |
| Pyrene | 19000 | E | ug/kg | 240 | -- | 2 |
| 2-Methylnaphthalene | 750 | | ug/kg | 470 | -- | 2 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|------------------|------------|-----------|---------------------|
| Nitrobenzene-d5 | 70 | | 30-130 |
| 2-Fluorobiphenyl | 73 | | 30-130 |
| 4-Terphenyl-d14 | 68 | | 30-130 |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270D
 Analytical Date: 10/30/18 21:03
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 10/30/18 09:26

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|-----|
| MCP Semivolatile Organics - Westborough Lab for sample(s): 01-07 Batch: WG1173773-1 | | | | | |
| Acenaphthene | ND | | ug/kg | 130 | -- |
| Fluoranthene | ND | | ug/kg | 99 | -- |
| Naphthalene | ND | | ug/kg | 160 | -- |
| Benzo(a)anthracene | ND | | ug/kg | 99 | -- |
| Benzo(a)pyrene | ND | | ug/kg | 130 | -- |
| Benzo(b)fluoranthene | ND | | ug/kg | 99 | -- |
| Benzo(k)fluoranthene | ND | | ug/kg | 99 | -- |
| Chrysene | ND | | ug/kg | 99 | -- |
| Acenaphthylene | ND | | ug/kg | 130 | -- |
| Anthracene | ND | | ug/kg | 99 | -- |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | -- |
| Fluorene | ND | | ug/kg | 160 | -- |
| Phenanthrene | ND | | ug/kg | 99 | -- |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 99 | -- |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | -- |
| Pyrene | ND | | ug/kg | 99 | -- |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|------------------|-----------|-----------|------------------------|
| Nitrobenzene-d5 | 75 | | 30-130 |
| 2-Fluorobiphenyl | 82 | | 30-130 |
| 4-Terphenyl-d14 | 82 | | 30-130 |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG1173773-2 WG1173773-3 | | | | | | | | |
| Acenaphthene | 64 | | 83 | | 40-140 | 26 | | 30 |
| Fluoranthene | 68 | | 85 | | 40-140 | 22 | | 30 |
| Naphthalene | 64 | | 75 | | 40-140 | 16 | | 30 |
| Benzo(a)anthracene | 66 | | 77 | | 40-140 | 15 | | 30 |
| Benzo(a)pyrene | 69 | | 81 | | 40-140 | 16 | | 30 |
| Benzo(b)fluoranthene | 69 | | 80 | | 40-140 | 15 | | 30 |
| Benzo(k)fluoranthene | 70 | | 81 | | 40-140 | 15 | | 30 |
| Chrysene | 68 | | 78 | | 40-140 | 14 | | 30 |
| Acenaphthylene | 69 | | 83 | | 40-140 | 18 | | 30 |
| Anthracene | 70 | | 81 | | 40-140 | 15 | | 30 |
| Benzo(ghi)perylene | 70 | | 82 | | 40-140 | 16 | | 30 |
| Fluorene | 67 | | 77 | | 40-140 | 14 | | 30 |
| Phenanthrene | 66 | | 78 | | 40-140 | 17 | | 30 |
| Dibenzo(a,h)anthracene | 69 | | 81 | | 40-140 | 16 | | 30 |
| Indeno(1,2,3-cd)pyrene | 69 | | 81 | | 40-140 | 16 | | 30 |
| Pyrene | 68 | | 84 | | 40-140 | 21 | | 30 |
| 2-Methylnaphthalene | 66 | | 78 | | 40-140 | 17 | | 30 |

Lab Control Sample Analysis**Batch Quality Control****Project Name:** MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG1173773-2 WG1173773-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| Nitrobenzene-d5 | 65 | | 75 | | 30-130 |
| 2-Fluorobiphenyl | 67 | | 78 | | 30-130 |
| 4-Terphenyl-d14 | 67 | | 82 | | 30-130 |

PCBS

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-01
Client ID: TP-10
Sample Location: Not Specified

Date Collected: 10/26/18 08:20
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 05:32
Analyst: HT
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 39.5 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 39.5 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 39.5 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 30-150 | B |
| Decachlorobiphenyl | 85 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 79 | | 30-150 | A |
| Decachlorobiphenyl | 88 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-02
Client ID: TP-11
Sample Location: Not Specified

Date Collected: 10/26/18 08:45
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 05:45
Analyst: HT
Percent Solids: 17%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-----|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 200 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 200 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 200 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 58 | | 30-150 | B |
| Decachlorobiphenyl | 83 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | A |
| Decachlorobiphenyl | 76 | | 30-150 | A |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-03 D

Date Collected: 10/26/18 08:55

Client ID: TP-12

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 97,8082A

Extraction Date: 10/30/18 09:17

Analytical Date: 11/07/18 03:24

Cleanup Method: EPA 3665A

Analyst: HT

Cleanup Date: 10/30/18

Percent Solids: 31%

Cleanup Method: EPA 3660B

Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-----|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1221 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1232 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1242 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1248 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1254 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1260 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1262 | ND | | ug/kg | 526 | -- | 5 | A |
| Aroclor 1268 | 2960 | | ug/kg | 526 | -- | 5 | B |
| PCBs, Total | 2960 | | ug/kg | 526 | -- | 5 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | 30-150 | B |
| Decachlorobiphenyl | 2080 | Q | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 30-150 | A |
| Decachlorobiphenyl | 1630 | Q | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-04
Client ID: TP-15
Sample Location: Not Specified

Date Collected: 10/26/18 09:30
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 06:11
Analyst: HT
Percent Solids: 60%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1254 | 162 | | ug/kg | 53.6 | -- | 1 | B |
| Aroclor 1260 | 133 | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 53.6 | -- | 1 | A |
| Aroclor 1268 | 83.2 | | ug/kg | 53.6 | -- | 1 | B |
| PCBs, Total | 378 | | ug/kg | 53.6 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | B |
| Decachlorobiphenyl | 162 | Q | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 63 | | 30-150 | A |
| Decachlorobiphenyl | 155 | Q | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-05
Client ID: TP-16
Sample Location: Not Specified

Date Collected: 10/26/18 09:45
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 06:23
Analyst: HT
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1254 | 325 | | ug/kg | 44.9 | -- | 1 | B |
| Aroclor 1260 | 145 | | ug/kg | 44.9 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 44.9 | -- | 1 | A |
| Aroclor 1268 | 317 | | ug/kg | 44.9 | -- | 1 | B |
| PCBs, Total | 787 | | ug/kg | 44.9 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | B |
| Decachlorobiphenyl | 521 | Q | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 55 | | 30-150 | A |
| Decachlorobiphenyl | 437 | Q | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-06
Client ID: TP-17
Sample Location: Not Specified

Date Collected: 10/26/18 10:00
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 06:36
Analyst: HT
Percent Solids: 37%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1262 | ND | | ug/kg | 89.1 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 89.1 | -- | 1 | A |
| PCBs, Total | ND | | ug/kg | 89.1 | -- | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 66 | | 30-150 | B |
| Decachlorobiphenyl | 77 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | A |
| Decachlorobiphenyl | 78 | | 30-150 | A |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-07
Client ID: TP-18
Sample Location: Not Specified

Date Collected: 10/26/18 10:30
Date Received: 10/29/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 06:49
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 10/30/18 09:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/18
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-----|-----------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1221 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1232 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1242 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1248 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1254 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1260 | ND | | ug/kg | 38.4 | -- | 1 | B |
| Aroclor 1262 | ND | | ug/kg | 38.4 | -- | 1 | A |
| Aroclor 1268 | ND | | ug/kg | 38.4 | -- | 1 | B |
| PCBs, Total | ND | | ug/kg | 38.4 | -- | 1 | B |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 30-150 | B |
| Decachlorobiphenyl | 94 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 69 | | 30-150 | A |
| Decachlorobiphenyl | 93 | | 30-150 | A |

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
 Analytical Date: 11/06/18 04:53
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 10/30/18 09:17
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/30/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/30/18

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|---|--------|-----------|-------|------|-----|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-07 Batch: WG1173763-1 | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1221 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1232 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1242 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1248 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1254 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1260 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1262 | ND | | ug/kg | 32.0 | -- | A |
| Aroclor 1268 | ND | | ug/kg | 32.0 | -- | A |
| PCBs, Total | ND | | ug/kg | 32.0 | -- | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | | 30-150 | B |
| Decachlorobiphenyl | 91 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 84 | | 30-150 | A |
| Decachlorobiphenyl | 93 | | 30-150 | A |

Lab Control Sample Analysis Batch Quality Control

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-07 Batch: WG1173763-2 WG1173763-3 | | | | | | | | | |
| Aroclor 1016 | 90 | | 96 | | 40-140 | 6 | | 30 | A |
| Aroclor 1260 | 86 | | 93 | | 40-140 | 8 | | 30 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | | 100 | | 30-150 | B |
| Decachlorobiphenyl | 93 | | 102 | | 30-150 | B |
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 94 | | 30-150 | A |
| Decachlorobiphenyl | 93 | | 102 | | 30-150 | A |

METALS

Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-01

Date Collected: 10/26/18 08:20

Client ID: TP-10

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.37 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 1.61 | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 26.8 | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.237 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | ND | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 23.6 | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Lead, Total | ND | | mg/kg | 2.37 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 7.04 | | mg/kg | 1.18 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.37 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.37 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 14.6 | | mg/kg | 0.473 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 10.8 | | mg/kg | 2.37 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:37 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-02

Date Collected: 10/26/18 08:45

Client ID: TP-11

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 17%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 11.4 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 9.85 | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 294 | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 1.14 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 4.99 | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 54.0 | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 280 | | mg/kg | 11.4 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 11.8 | | mg/kg | 5.73 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 11.4 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 11.4 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 30.2 | | mg/kg | 2.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 450 | | mg/kg | 11.4 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:42 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-03

Date Collected: 10/26/18 08:55

Client ID: TP-12

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 31%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | 11.2 | | mg/kg | 6.39 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 42.2 | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 454 | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.639 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 62.8 | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 139 | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 733 | | mg/kg | 6.39 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 135 | | mg/kg | 3.20 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 8.30 | | mg/kg | 6.39 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 6.39 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 70.4 | | mg/kg | 1.28 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 1380 | | mg/kg | 6.39 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:46 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-04

Date Collected: 10/26/18 09:30

Client ID: TP-15

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 60%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 3.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 7.18 | | mg/kg | 0.658 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 8860 | | mg/kg | 6.58 | -- | 10 | 10/31/18 19:47 | 11/07/18 10:28 | EPA 3050B | 97,6010D | PE |
| Beryllium, Total | 0.329 | | mg/kg | 0.329 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 5.96 | | mg/kg | 0.658 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 86.3 | | mg/kg | 0.658 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 747 | | mg/kg | 3.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 29.0 | | mg/kg | 1.64 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | 4.01 | | mg/kg | 3.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Silver, Total | 2.21 | | mg/kg | 0.658 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 3.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 33.4 | | mg/kg | 0.658 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 294 | | mg/kg | 3.29 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:04 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-05

Date Collected: 10/26/18 09:45

Client ID: TP-16

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.63 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 18.5 | | mg/kg | 0.526 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 5300 | | mg/kg | 5.26 | -- | 10 | 10/31/18 19:47 | 11/07/18 10:32 | EPA 3050B | 97,6010D | PE |
| Beryllium, Total | 0.273 | | mg/kg | 0.263 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 2.66 | | mg/kg | 0.526 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 391 | | mg/kg | 0.526 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 4660 | | mg/kg | 2.63 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 21.3 | | mg/kg | 1.31 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.63 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.526 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.63 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 20.4 | | mg/kg | 0.526 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 367 | | mg/kg | 2.63 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:09 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-06

Date Collected: 10/26/18 10:00

Client ID: TP-17

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 37%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 5.19 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 6.93 | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 6130 | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | 1.11 | | mg/kg | 0.519 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 3.21 | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 8.64 | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 30.8 | | mg/kg | 5.19 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 18.9 | | mg/kg | 2.60 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 5.19 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 5.19 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 12.5 | | mg/kg | 1.04 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 226 | | mg/kg | 5.19 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:14 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**SAMPLE RESULTS**

Lab ID: L1844061-07

Date Collected: 10/26/18 10:30

Client ID: TP-18

Date Received: 10/29/18

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|----------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab | | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.26 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Arsenic, Total | 3.84 | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Barium, Total | 676 | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Beryllium, Total | 0.276 | | mg/kg | 0.226 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Cadmium, Total | 0.805 | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Chromium, Total | 8.21 | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Lead, Total | 220 | | mg/kg | 2.26 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Nickel, Total | 6.27 | | mg/kg | 1.13 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.26 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.26 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Vanadium, Total | 11.4 | | mg/kg | 0.452 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |
| Zinc, Total | 120 | | mg/kg | 2.26 | -- | 1 | 10/31/18 19:47 | 11/02/18 18:18 | EPA 3050B | 97,6010D | AB |



Project Name: MCCABE ST.

Lab Number: L1844061

Project Number: SE18-1375

Report Date: 11/07/18

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1174523-1 | | | | | | | | | | |
| Antimony, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Arsenic, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Barium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Beryllium, Total | ND | | mg/kg | 0.200 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Cadmium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Chromium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Lead, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Nickel, Total | ND | | mg/kg | 1.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Selenium, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Silver, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Thallium, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Vanadium, Total | ND | | mg/kg | 0.400 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |
| Zinc, Total | ND | | mg/kg | 2.00 | -- | 1 | 10/31/18 19:47 | 11/02/18 17:10 | 97,6010D | AB |

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| MCP Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1174523-2 WG1174523-3 SRM Lot Number: D102-540 | | | | | | | | |
| Antimony, Total | 133 | | 144 | | 1-199 | 8 | | 30 |
| Arsenic, Total | 89 | | 95 | | 83-117 | 7 | | 30 |
| Barium, Total | 84 | | 83 | | 83-118 | 1 | | 30 |
| Beryllium, Total | 85 | | 83 | | 83-116 | 2 | | 30 |
| Cadmium, Total | 92 | | 97 | | 83-118 | 5 | | 30 |
| Chromium, Total | 86 | | 85 | | 83-117 | 1 | | 30 |
| Lead, Total | 86 | | 92 | | 82-118 | 7 | | 30 |
| Nickel, Total | 88 | | 95 | | 83-117 | 8 | | 30 |
| Selenium, Total | 93 | | 99 | | 79-121 | 6 | | 30 |
| Silver, Total | 88 | | 87 | | 80-120 | 1 | | 30 |
| Thallium, Total | 91 | | 95 | | 81-119 | 4 | | 30 |
| Vanadium, Total | 86 | | 84 | | 80-120 | 2 | | 30 |
| Zinc, Total | 86 | | 95 | | 81-118 | 10 | | 30 |

INORGANICS & MISCELLANEOUS

Project Name: MCCABE ST.

Project Number: SE18-1375

Lab Number: L1844061

Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844061-01

Client ID: TP-10

Sample Location: Not Specified

Date Collected: 10/26/18 08:20

Date Received: 10/29/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 82.9 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-02**Client ID:** TP-11**Sample Location:** Not Specified**Date Collected:** 10/26/18 08:45**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 16.5 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-03**Client ID:** TP-12**Sample Location:** Not Specified**Date Collected:** 10/26/18 08:55**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 31.2 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-04**Client ID:** TP-15**Sample Location:** Not Specified**Date Collected:** 10/26/18 09:30**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 59.6 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-05**Client ID:** TP-16**Sample Location:** Not Specified**Date Collected:** 10/26/18 09:45**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 73.2 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-06**Client ID:** TP-17**Sample Location:** Not Specified**Date Collected:** 10/26/18 10:00**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 36.6 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.**Project Number:** SE18-1375**Lab Number:** L1844061**Report Date:** 11/07/18**SAMPLE RESULTS****Lab ID:** L1844061-07**Client ID:** TP-18**Sample Location:** Not Specified**Date Collected:** 10/26/18 10:30**Date Received:** 10/29/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 83.7 | | % | 0.100 | NA | 1 | - | 10/30/18 13:45 | 121,2540G | RI |



Project Name: MCCABE ST.
Project Number: SE18-1375

Serial_No:11071817:49
Lab Number: L1844061
Report Date: 11/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|--------------|------------------------------|--------|------------|----------|------------|------|--------|------------------|---|
| L1844061-01A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-01B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1844061-02A | Vial MeOH preserved | A | NA | | 3.7 | Y | Absent | | MCP-8260HLW-10(14) |
| L1844061-02B | Vial water preserved | A | NA | | 3.7 | Y | Absent | 26-OCT-18 15:00 | MCP-8260HLW-10(14) |
| L1844061-02C | Vial water preserved | A | NA | | 3.7 | Y | Absent | 26-OCT-18 15:00 | MCP-8260HLW-10(14) |
| L1844061-02D | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-02E | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1844061-03A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-03B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18**Container Information**

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|---|
| L1844061-04A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-04B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1844061-05A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-05B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1844061-06A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-06B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |
| L1844061-07A | Glass 60ml unpreserved split | A | NA | | 3.7 | Y | Absent | | MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180) |
| L1844061-07B | Glass 250ml/8oz unpreserved | A | NA | | 3.7 | Y | Absent | | MCP-8082-10(365),TS(7),MCP-PAH-10(14) |

Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

GLOSSARY

Acronyms

| | |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: Data Usability Report



Project Name: MCCABE ST.
Project Number: SE18-1375

Lab Number: L1844061
Report Date: 11/07/18

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: MCCABE ST.**Lab Number:** L1844061**Project Number:** SE18-1375**Report Date:** 11/07/18

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

[illegible]

Method Blank Summary
Form 4
VOLATILES

| | | | |
|----------------------|------------------------------------|-----------------------|-------------------------|
| Client | : Sitec Environmental, Inc. | Lab Number | : L1844061 |
| Project Name | : MCCABE ST. | Project Number | : SE18-1375 |
| Lab Sample ID | : WG1176392-5 | Lab File ID | : V17181106A04 |
| Instrument ID | : VOA117 | | |
| Matrix | : SOIL | Analysis Date | : 11/06/18 07:59 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|--------------------------|----------------------|----------------------|
| WG1176392-3LCS | WG1176392-3 | 11/06/18 06:34 |
| WG1176392-4LCSD | WG1176392-4 | 11/06/18 07:04 |
| TP-11 | L1844061-02D | 11/06/18 10:40 |

Continuing Calibration Form 7

Client : Sitec Environmental, Inc.
 Project Name : MCCABE ST.
 Instrument ID : VOA117
 Lab File ID : V17181106A01
 Sample No : WG1176392-2
 Channel :

Lab Number : L1844061
 Project Number : SE18-1375
 Calibration Date : 11/06/18 06:34
 Init. Calib. Date(s) : 10/10/18 10/11/18
 Init. Calib. Times : 22:08 12:56

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---------------------------|----------|----------|---------|-------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 99 | 0 |
| Dichlorodifluoromethane | 0.291 | 0.173 | - | 40.5* | 20 | 54 | 0 |
| Chloromethane | 0.32 | 0.253 | - | 20.9* | 20 | 75 | 0 |
| Vinyl chloride | 0.388 | 0.298 | - | 23.2* | 20 | 72 | 0 |
| Bromomethane | 0.271 | 0.204 | - | 24.7* | 20 | 76 | 0 |
| Chloroethane | 0.296 | 0.234 | - | 20.9* | 20 | 76 | 0 |
| Trichlorofluoromethane | 0.576 | 0.418 | - | 27.4* | 20 | 68 | 0 |
| Ethyl ether | 0.143 | 0.127 | - | 11.2 | 20 | 85 | 0 |
| 1,1-Dichloroethene | 0.217 | 0.163 | - | 24.9* | 20 | 71 | 0 |
| Carbon disulfide | 0.682 | 0.491 | - | 28* | 20 | 71 | 0 |
| Methylene chloride | 0.258 | 0.195 | - | 24.4* | 20 | 78 | 0 |
| Acetone | 20 | 20.286 | - | -1.4 | 20 | 92 | 0 |
| trans-1,2-Dichloroethene | 0.242 | 0.191 | - | 21.1* | 20 | 75 | 0 |
| Methyl tert-butyl ether | 0.482 | 0.433 | - | 10.2 | 20 | 85 | 0 |
| Diisopropyl ether | 0.683 | 0.65 | - | 4.8 | 20 | 90 | 0 |
| 1,1-Dichloroethane | 0.454 | 0.383 | - | 15.6 | 20 | 80 | 0 |
| Ethyl tert-butyl ether | 0.623 | 0.577 | - | 7.4 | 20 | 87 | 0 |
| cis-1,2-Dichloroethene | 0.257 | 0.213 | - | 17.1 | 20 | 79 | 0 |
| 2,2-Dichloropropane | 0.355 | 0.295 | - | 16.9 | 20 | 80 | 0 |
| Bromochloromethane | 0.109 | 0.093 | - | 14.7 | 20 | 79 | 0 |
| Chloroform | 0.425 | 0.356 | - | 16.2 | 20 | 81 | 0 |
| Carbon tetrachloride | 0.348 | 0.267 | - | 23.3* | 20 | 71 | 0 |
| Tetrahydrofuran | 20 | 18.406 | - | 8 | 20 | 88 | 0 |
| Dibromofluoromethane | 0.249 | 0.245 | - | 1.6 | 20 | 99 | 0 |
| 1,1,1-Trichloroethane | 0.374 | 0.305 | - | 18.4 | 20 | 76 | -.01 |
| 2-Butanone | 20 | 18.795 | - | 6 | 20 | 91 | 0 |
| 1,1-Dichloropropene | 0.299 | 0.246 | - | 17.7 | 20 | 75 | 0 |
| Benzene | 0.927 | 0.777 | - | 16.2 | 20 | 80 | 0 |
| tert-Amyl methyl ether | 0.5 | 0.451 | - | 9.8 | 20 | 86 | 0 |
| 1,2-Dichloroethane-d4 | 0.239 | 0.25 | - | -4.6 | 20 | 105 | 0 |
| 1,2-Dichloroethane | 0.278 | 0.244 | - | 12.2 | 20 | 85 | 0 |
| Trichloroethene | 0.249 | 0.201 | - | 19.3 | 20 | 77 | 0 |
| Dibromomethane | 0.119 | 0.103 | - | 13.4 | 20 | 81 | 0 |
| 1,2-Dichloropropane | 0.24 | 0.212 | - | 11.7 | 20 | 84 | 0 |
| Bromodichloromethane | 0.299 | 0.254 | - | 15.1 | 20 | 79 | -.01 |
| 1,4-Dioxane | 0.00145 | 0.00121* | - | 16.6 | 20 | 81 | -.01 |
| cis-1,3-Dichloropropene | 0.337 | 0.301 | - | 10.7 | 20 | 83 | -.01 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 99 | 0 |
| Toluene-d8 | 1.292 | 1.329 | - | -2.9 | 20 | 101 | 0 |
| Toluene | 0.803 | 0.663 | - | 17.4 | 20 | 79 | -.01 |
| 4-Methyl-2-pentanone | 0.074 | 0.066* | - | 10.8 | 20 | 87 | 0 |
| Tetrachloroethene | 0.347 | 0.278 | - | 19.9 | 20 | 73 | 0 |
| trans-1,3-Dichloropropene | 0.39 | 0.346 | - | 11.3 | 20 | 83 | -.01 |
| 1,1,2-Trichloroethane | 0.191 | 0.168 | - | 12 | 20 | 82 | 0 |
| Chlorodibromomethane | 0.291 | 0.246 | - | 15.5 | 20 | 80 | -.01 |

* Value outside of QC limits.



Continuing Calibration Form 7

Client : Sitec Environmental, Inc.
 Project Name : MCCABE ST.
 Instrument ID : VOA117
 Lab File ID : V17181106A01
 Sample No : WG1176392-2
 Channel :

Lab Number : L1844061
 Project Number : SE18-1375
 Calibration Date : 11/06/18 06:34
 Init. Calib. Date(s) : 10/10/18 10/11/18
 Init. Calib. Times : 22:08 12:56

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|-------|--------|-------|----------|
| 1,3-Dichloropropane | 0.381 | 0.345 | - | 9.4 | 20 | 83 | 0 |
| 1,2-Dibromoethane | 0.218 | 0.189 | - | 13.3 | 20 | 81 | 0 |
| 2-Hexanone | 0.121 | 0.11 | - | 9.1 | 20 | 94 | 0 |
| Chlorobenzene | 0.888 | 0.753 | - | 15.2 | 20 | 79 | 0 |
| Ethylbenzene | 1.526 | 1.294 | - | 15.2 | 20 | 79 | -.01 |
| 1,1,1,2-Tetrachloroethane | 0.314 | 0.267 | - | 15 | 20 | 78 | -.01 |
| p/m Xylene | 0.599 | 0.504 | - | 15.9 | 20 | 78 | 0 |
| o Xylene | 0.561 | 0.48 | - | 14.4 | 20 | 79 | 0 |
| Styrene | 40 | 30.245 | - | 24.4* | 20 | 78 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 98 | 0 |
| Bromoform | 0.345 | 0.275 | - | 20.3* | 20 | 76 | 0 |
| Isopropylbenzene | 2.914 | 2.484 | - | 14.8 | 20 | 76 | 0 |
| 4-Bromofluorobenzene | 0.871 | 0.905 | - | -3.9 | 20 | 102 | 0 |
| Bromobenzene | 0.706 | 0.6 | - | 15 | 20 | 78 | 0 |
| n-Propylbenzene | 3.551 | 3.023 | - | 14.9 | 20 | 78 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.524 | 0.481 | - | 8.2 | 20 | 83 | 0 |
| 2-Chlorotoluene | 2.05 | 1.761 | - | 14.1 | 20 | 79 | 0 |
| 1,3,5-Trimethylbenzene | 2.478 | 2.135 | - | 13.8 | 20 | 77 | 0 |
| 1,2,3-Trichloropropane | 0.415 | 0.361 | - | 13 | 20 | 81 | 0 |
| 4-Chlorotoluene | 2.054 | 1.821 | - | 11.3 | 20 | 81 | 0 |
| tert-Butylbenzene | 2.14 | 1.791 | - | 16.3 | 20 | 75 | 0 |
| 1,2,4-Trimethylbenzene | 2.455 | 2.153 | - | 12.3 | 20 | 79 | 0 |
| sec-Butylbenzene | 3.254 | 2.736 | - | 15.9 | 20 | 75 | 0 |
| p-Isopropyltoluene | 2.754 | 2.35 | - | 14.7 | 20 | 75 | 0 |
| 1,3-Dichlorobenzene | 1.432 | 1.226 | - | 14.4 | 20 | 78 | 0 |
| 1,4-Dichlorobenzene | 1.457 | 1.24 | - | 14.9 | 20 | 79 | 0 |
| n-Butylbenzene | 2.672 | 2.299 | - | 14 | 20 | 76 | 0 |
| 1,2-Dichlorobenzene | 1.304 | 1.116 | - | 14.4 | 20 | 79 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.078 | 0.061 | - | 21.8* | 20 | 73 | 0 |
| Hexachlorobutadiene | 0.508 | 0.414 | - | 18.5 | 20 | 72 | 0 |
| 1,2,4-Trichlorobenzene | 0.896 | 0.805 | - | 10.2 | 20 | 82 | 0 |
| Naphthalene | 1.686 | 1.52 | - | 9.8 | 20 | 80 | 0 |
| 1,2,3-Trichlorobenzene | 0.792 | 0.712 | - | 10.1 | 20 | 82 | 0 |

* Value outside of QC limits.



ATTACHMENT 5

LABORATORY REPORT (ASBESTOS)

LABORATORY REPORT

SITEC Environmental
Attn: Mr. Geoffrey Souza
769 Plain Street, Unit C
Marshfield, MA 02050

Date Received: 10/31/2018
Date Reported: 11/7/2018
Work Order #: 1810-23374

Site Location: PROJECT #SE18-1375, MCCABE ST.

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

Analysis by Polarized Light Microscopy (PLM) was performed as suggested by EPA 600/R-93/116, July 1993 edition and EPA 600/M4-82-020, December 1982.

R.I. Analytical Laboratories, Inc. maintains bulk asbestos fiber NVLAP accreditation under lab code 101440-0. This report does not serve as a product certification, approval, and/or endorsement by NVLAP, NIST, or any federal agency.

The sample(s) submitted for analysis were accepted by R.I. Analytical unless otherwise noted in the report. If a sample is found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the sample will be homogenized and a single result will be provided. These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

Samples submitted for analysis will be retained for three months for future reference.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Asbestos Signatory

R.I. Analytical Laboratories, Inc.
LABORATORY REPORT

SITEC Environmental
Date Received: 10/31/2018
Work Order #: 1810-23374
Site Location: PROJECT #SE18-1375, MCCABE ST.

METHOD: EPA 600/R-93/116

| SAMPLE NO. | SAMPLE DESCRIPTION | PARAMETER | SAMPLE RESULTS / UNITS | DATE ANALYZED | ANALYST |
|-------------------|---------------------------|--------------------|-------------------------------|----------------------|----------------|
| 001 | TP-12 | PLM Fiber Analysis | | | |
| | | Asbestos | Detected | 11/7/2018 | CRC |
| | | Chrysotile | 5-15 % | 11/7/2018 | CRC |
| | | Non-fibrous | 85-95 % | 11/7/2018 | CRC |
| | | Sample Color | Brown | 11/7/2018 | CRC |
| 002 | TP-17 | PLM Fiber Analysis | | | |
| | | Asbestos | Detected | 11/7/2018 | CRC |
| | | Chrysotile | 40-60 % | 11/7/2018 | CRC |
| | | Non-fibrous | 40-60 % | 11/7/2018 | CRC |
| | | Sample Color | Black | 11/7/2018 | CRC |
| 003 | SS-1 | PLM Fiber Analysis | | | |
| | | Asbestos | Detected | 11/7/2018 | CRC |
| | | Chrysotile | 5-15 % | 11/7/2018 | CRC |
| | | Non-fibrous | 85-95 % | 11/7/2018 | CRC |
| | | Sample Color | Black | 11/7/2018 | CRC |
| 004 | SS-2 | PLM Fiber Analysis | | | |
| | | Asbestos | Not Detected | 11/7/2018 | CRC |
| | | Non-fibrous | 100 % | 11/7/2018 | CRC |
| | | Sample Color | Black | 11/7/2018 | CRC |
| 005 | SS-3 | PLM Fiber Analysis | | | |
| | | Asbestos | Not Detected | 11/7/2018 | CRC |
| | | Non-fibrous | 100 % | 11/7/2018 | CRC |
| | | Sample Color | Black | 11/7/2018 | CRC |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970


[illegible][illegible]

Client Information

Company Name: SITEC Environmental Inc.
Address: 269 Main St, Suite C
City / State / Zip: Maunabo, HI 96750
Telephone: 808-339-0100 Fax:
Contact Person: David Sosa

Project Information

| | | | |
|---------------|-----------|-----------------|-----------|
| Project Name: | McLabe ST | Project Number: | SE18-1375 |
| P.O. Number: | | Phone: | |
| Report To: | S/TEC | Fax: | |
| Sampled by: | G Socza | | |
| Quote No: | | Email address: | |

| Relinquished By | Date | Time | Received By | Date | Time |
|---|-------|------|-------------|----------|------|
|  | 10/30 | 1:50 | VIA Fed Ex | 10/31/18 | 9:53 |
| | | | | | |
| | | | | | |

| Turn Around Time | | |
|-------------------------------------|--------|--------------------------------------|
| <input checked="" type="checkbox"/> | Normal | EMAIL Report |
| | | 5 Business days. Possible surcharge. |
| | Rush | (business days) |

Project Comments

| | GW-1, | GW-2, | GW-3, | S-1, | S-2, | S-3 | MCP Data Enhancement QC Package? | Yes | No |
|------------------------------|-------|-------|-------|------|------|-----|----------------------------------|-----|----|
| Circle if applicable: | GW-1, | GW-2, | GW-3, | S-1, | S-2, | S-3 | | | |

4 Samples have strong petroleum odor, per Sample bag.

Amo

Preservation Codes: NP=None, N=HNO₃, H=HCl, S=H₂SO₄, SH=NaOH, T=Na₂S₂O₃, Z=ZnOAc, I=Ice

ATTACHMENT 6

PRP AUTHORIZATION

August 28, 2018

Massachusetts Department of Environmental Protection
20 Riverside Drive
Lakeville, MA 02347

**RE: 85 McCabe Street
Dartmouth, Massachusetts
Release Tracking No.: 4-27363**

To Whom It May Concern:

In accordance 310 CMR 40.0009(2), I am authorizing SITEC Environmental, Inc. to act as my agent in electronically filing any required Massachusetts Contingency Plan documents for the above referenced release.

Sincerely,



George Verissimo
Terceira Construction