



Consulting May 1, 2020  
Engineers and Project 1802441  
Scientists

Ms. Ellen Bellio  
Senior Manager Waste Approvals  
Waste Management – Turnkey Recycling and Environmental Enterprises  
90 Rochester Neck Road  
Rochester, NH 03839

Dear Ms. Bellio:

**Re: Supporting Information for PCB-Contaminated Soil and Asphalt Profile for Disposal at Waste Management Turnkey Landfill, Rochester, New Hampshire Former Tombarello Property Lawrence, Massachusetts MassDEP RTN 3-18126**

This letter provides characterization data for soil and asphalt to be generated during the cleanup of the Lot 1 portion of the former Tombarello property at 207 Marston Street in Lawrence, Massachusetts (Figs. 1 and 2; the Site). The former Tombarello property is owned by the City of Lawrence. W.L. French, the contractor performing the work, proposes to dispose of the soil and asphalt from Lot 1 at the Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, New Hampshire. A completed Waste Management EZ Profile Form, signed by the generator of the waste, the City of Lawrence, is in Appendix A.

## **Background**

The Site is a 14-acre property owned by the City of Lawrence at 207 Marston Street in Lawrence, Massachusetts. The property has been sub-divided into two lots, Lot 1 and Lot 2 (Fig. 1). Lot 1 is a 2.6-acre parcel to the west and Lot 2 is an 11.4-acre parcel to the east. The soil and asphalt planned for disposal at the TREE will be from the northwest portion of Lot 1 (Fig. 1; Project Area).

Since 2001, the Site has been vacant, except for a truck driving school, which operated on the Site for a short time in 2006. A metals recycling facility (John C. Tombarello & Sons followed by American Recycling of Massachusetts, Inc.), operated at the Site from about 1941 through 2001. Structures associated with the metals recycling operations included a scale house (Lot 1), metals shop/garage (Lot 2), furnace building (Lot 2), baler/press building (Lot 2), and small shear and large shear buildings (Lot 2). A mobile car crusher also operated on the Site (Lot 2). The primary metals recycling activities took place on Lot 2.

The former Tombarello property is a Massachusetts Department of Environmental Protection (MassDEP) disposal Site identified by Release Tracking Number (RTN) 3-18126 in part due to the presence of PCBs in soil. Site contamination is primarily PCBs, metals, petroleum hydrocarbons, and polycyclic aromatic hydrocarbons (PAHs) in soil. The contamination has been attributed to the historic use of the Site as a metals recycling facility. Site contamination was

initially identified on Lot 2 during subsurface investigations in 1998 and contaminant concentrations on Lot 2 are significantly higher than on Lot 1. In addition, the portion of Lot 1 where soil and asphalt will be generated for disposal at the TREE has been paved since sometime prior to 1973, resulting in much lower impacts to soil beneath the pavement in this area. PCB concentrations in soil on Lot 2 are greater than 50 ppm whereas PCB concentrations in soil on Lot 1 are less than 50 ppm (maximum of 24 ppm) and less than 1 ppm on the northwest portion of Lot 1, which is the area planned for excavation and offsite disposal at the TREE.

Although PCBs are less than 1 ppm in soil in the area planned for excavation and offsite disposal at TREE, because PCBs at concentrations greater than 50 ppm were detected in soil on Lot 2 and because PCBs are present in asphalt on Lot 1 at greater than 1 ppm (1.6 ppm), cleanup and disposal of Excavation #2 on Lot 1 and asphalt are subject to the requirements of the Toxic Substances Control Act (TSCA; 40 CFR 761). GEI prepared and submitted to EPA for approval a "Self-Implementing PCB Cleanup and Disposal Plan" dated April 2020 for cleanup of Lot 1 (SIP). The Plan requests EPA approval for the offsite disposal of soil and asphalt generated from the northwest portion of Lot 1 at a Subtitle D landfill. A copy of the Cleanup Plan is in Appendix C and EPA Approval is pending. The City is also conducting the cleanup as a Release Abatement Measure (RAM) in accordance with the MCP. A copy of the final RAM Plan will be provided once submitted to MassDEP.

### **Soil Characterization**

Soil to be disposed at TREE is being generated from the targeted Excavation Area #1 and Excavation Area #2 on Lot 1 (Fig. 2).

Soil in Excavation Area #1 has elevated concentrations of extractable petroleum hydrocarbons (EPH). PCBs in this area are less than 1 ppm and were not subject to the SIP. The excavation will be about 10 feet wide by 10 feet long and extend to a depth of seven feet. The total in-situ volume of soil to be excavated from Excavation Area #1 is approximately 26 cubic yards.

Although the PCB concentration in the soil in Excavation Area #2 is less than 1 ppm, due to its proximity to the remainder of Lot 1 where PCBs have been detected at greater than 1 ppm but less than 50 ppm, Excavation Area #2 is subject to the SIP. The excavation will be approximately five feet wide by 110 feet long and extend to a depth of three feet. The total in-situ volume of soil to be excavated from Excavation Area #2 is approximately 61 cubic yards.

On March 12, 2020, GEI observed Northern Drill Service, Inc. of Northborough, Massachusetts advance four soil borings at locations LOT1-DISP-01, LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C (Fig. 2). The borings were advanced using a direct push Geoprobe drilling method. The soil boring at LOT1-DISP-01 was advanced to a depth of 7 feet and the soil borings at LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C were advanced to a depth of 3 feet. All the borings were advanced through a surface cover of asphalt pavement. Boring logs are in the attached PCB Cleanup Plan (Appendix C). Soil descriptions in the boring logs are based on a modified UCSC classification.

Soil planned for excavation and offsite disposal at TREE is fill consisting of brown to black widely graded sand with gravel and silty sand. Brick, slag, paint, and caulk were observed in some of borings.

For Excavation Area #1, a composite sample (Lot1-Disp-01) was collected by compositing soil from the boring across the 1 to 7-foot depth interval, which is representative of the soil planned for excavation. For Excavation Area #2, a composite sample (Lot1-Disp-02comp) was collected

by compositing soil from locations LOT1-DISP-02A, LOT1-DISP-02B, and LOT1-DISP-02C. Samples from Lot1-Disp-02A through C were collected across the depth interval 1 to 3 feet. A grab sample (Lot1-Disp02grab) was collected from Lot1-Disp-02B. Each sample was field screened for volatile organic compounds (VOCs) using the jar headspace method and a photoionization detector (PID). The results of field screening for VOCs ranged from 0.0 to 0.1 ppm and are on the boring logs.

The samples were submitted to ESS laboratories of Cranston, Rhode Island for chemical testing. Lot1-Disp-01 and Lot1-Disp-02comp were tested for semi-volatile organic compounds (SVOCs) (including pyridine), PCBs, RCRA 8 metals, TCLP lead, TPH, ignitability, corrosivity, reactive cyanide and sulfide. Lot1-Disp-01 and Lot1-Disp-02comp were tested for VOCs. PCBs were not detected at a concentration above the laboratory reporting limit in Lot1-Disp-01 and were detected at 0.16 ppm in Lot1-Disp-02comp.

Data collected to characterize soil planned for excavation and offsite disposal are summarized in Table 1. The laboratory data report is in Appendix D.

### **Asphalt Characterization**

Approximately 11,000 square feet (330 cubic yards) of asphalt surface cover will be removed and disposed at TREE. The asphalt surface cover ranges in thickness from 3 to 10-inches. The asphalt is subject to the SIP.

On September 3, 2019, Crede Associates of Westbrook, Maine collected four asphalt samples (AS-1 through AS-4) (Fig. 2). Asphalt samples were collected using an impact hammer drill from a depth of 0 to 0.5-inch. The asphalt samples were submitted to Alpha Analytical of Westborough, Massachusetts for PCB testing.

Total PCB concentrations detected in the asphalt samples ranged from 0.184 to 1.61 ppm. The results of asphalt chemical testing are summarized in Table 2 and the laboratory data report is in Appendix D. The data sheets for samples that are not proposed for disposal at TREE are identified with "Not Applicable" in the laboratory reports.

### **Data Usability**

The samples collected and analyses performed and submitted for review are enough to adequately characterize the nature and concentrations of contaminants in the soil. We reviewed the laboratory's quality assurance/quality control data. We also performed our own internal validation and review of the laboratory data. We have concluded that all the soil data are usable and are representative of the material proposed for TREE. Additionally, the soil chemical testing results are consistent with the known history of this portion of the Property as a paved portion at the perimeter of a metals recycling facility.

The soil samples were not submitted for chemical testing of pesticides or herbicides. GEI and the City of Lawrence are not aware of any known storage or usage of significant quantities of pesticides or herbicides based on the current and historical use of the project site. Therefore, we do not believe that pesticides or herbicides are contaminants of concern at the project site.

We used due diligence to characterize the soil for the presence of listed hazardous waste and characteristic hazardous waste in accordance with MassDEP Policy HW93-01. Chemical testing performed on the soil within the area of the proposed excavation indicated the presence of tetrachloroethylene and 1,1,2,2-tetrachloroethane; however, specific sources have not been

identified, therefore it is not a listed hazardous waste and a contained in determination is not required. Chemical testing performed on the soil within the area of the proposed excavation did not indicate the presence of a listed hazardous waste nor did the soil exhibit a characteristic of hazardous waste. Due diligence has included field investigations and a review of available historic documents for the site.

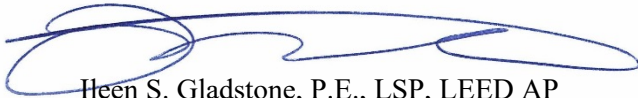
### LSP Opinion

Based on our chemical testing results, soil represented by the samples in Table 1 and asphalt in Table 2 are appropriate for disposal at TREE. We estimate that the soil samples summarized in Table 1 will allow for transportation and disposal of up to 400 tons (250 cubic yards) of soil. The soil will be tracked using a MassDEP Bill of Lading (BOL; BWSC112), a copy of which is in Appendix B. If more than 400 tons of soil are to be transported to TREE, we will provide additional data to characterize the additional soil for disposal. Approximately 330 cubic yards of asphalt will also be disposed at TREE and tracked using the same BOL.

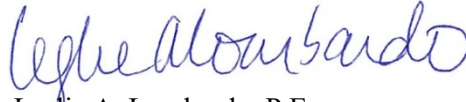
Please contact Ileen Gladstone at 781-424-9924 or [igladstone@geiconsultants.com](mailto:igladstone@geiconsultants.com) or Leslie Lombardo at 339-221-3351 or [llombardo@geiconsultants.com](mailto:llombardo@geiconsultants.com), if you have any questions regarding this letter.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP, LEED AP  
Senior Vice President



Leslie A. Lombardo, P.E.  
Project Manager

LAL/ISG:jam

Attachments

c: Pedro Soto, City of Lawrence

# Tables

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**Table 1. Chemical Testing Results - Soil Disposal Characterization Samples - Lot 1**  
**Former Tombarello Site**  
**Lawrence, Massachusetts**

					Sample ID:	1802441-Lot1-DISP01	1802441-Lot1-DISP02-Grab	1802441-Lot1-DISP02-Comp
					Sample Location:	Lot1-DISP01	Lot1-DISP02B	Lot1-DISP02A, B, C (Composite)
					Sampling Date:	03/12/2020	03/12/2020	03/12/2020
					Sample Depth (ft):	1 - 7	1 - 3	1 - 3
					Lab Sample ID:	20C0466-01	20C0466-02	20C0466-03
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill				
<b>Volatile Organic Compounds (VOCs)</b>	8260	mg/kg						NT
1,1,2,2-Tetrachloroethane			NS	NS	0.0059		< 0.0013	
Acetone			NS	NS	< 0.0068	G	0.123	
Methyl Ethyl Ketone (2-Butanone)			NS	NS	< 0.0068		0.0154	
Tetrachloroethene			NS	NS	0.0089		< 0.0032	
Total VOCs			4	10	0.0148		0.1384	
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	8270	mg/kg						NT
2-Methylnaphthalene			NS	NS	< 0.324			0.298
Acenaphthylene			NS	NS	< 0.752			1.4
Anthracene			NS	NS	< 1.50			2.3
Benzo(a)anthracene			NS	NS	2.28			5.58
Benzo(a)pyrene			NS	NS	2.52			5.77
Benzo(b)fluoranthene			NS	NS	2.42			4.97
Benzo(g,h,i)perylene			NS	NS	1.75			3.21
Benzo(k)fluoranthene			NS	NS	1.72			4
Chrysene			NS	NS	2.3			5.41
Dibenzo(a,h)anthracene			NS	NS	0.575			1.16
Fluoranthene			NS	NS	4.54			11.1
Fluorene			NS	NS	< 1.50			0.826
Indeno(1,2,3-cd)pyrene			NS	NS	1.5			3.07
Phenanthrene			NS	NS	2.43			8.3
Pyrene			NS	NS	4.39			10.8
Pyridine			NS	NS	<7.52			<3.44
Total SVOCs			100	100	26.425			68.194
<b>Petroleum Hydrocarbons</b>	8100M	mg/kg						NT
Total petroleum hydrocarbons			2,500	5,000	352			876
<b>Polychlorinated Biphenyls (PCBs)</b>	8082	mg/kg						NT
Aroclor 1242			NS	NS	< 0.06			0.1
Aroclor 1260			NS	NS	< 0.06			0.06
Total PCBs			2	2	ND			0.16
<b>Total Metals</b>		mg/kg						NT
Arsenic	6010		40	40	6.61			4.93
Barium	6010		NS	NS	171			57.3
Cadmium	6010		30	80	1.17			< 0.45
Chromium	6010		1000	1000	33.9			15.6
Lead	6010		1000	2000	392			185
Mercury	6010		10	10	0.559			0.059
Selenium	6010		NS	NS	< 4.41			< 4.48
Silver	6010		NS	NS	< 0.44			< 0.45
<b>TCLP Metals</b>	1311	mg/L						NT
Lead			5	5	0.281			1.26
<b>Other</b>								
pH	9045	S.U.	NS	NS	7.75		NT	7.15
Flashpoint	1010	°F	NS	NS	> 200		NT	> 200
Reactive Cyanide	7.3.3.2	mg/kg	NS	NS	< 2.0		NT	< 2.0
Reactive Sulfide	7.3.4.1	mg/kg	NS	NS	< 2.0		NT	< 2.0
Solids, Percent	2540G	%	NS	NS	88		93	93

**General Notes:**

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.
4. NT = The sample was not tested for this analyte.
5. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
6. NS = No disposal facility criteria has been established for this analyte.
- 7 mg/kg = milligrams per kilogram
8. mg/L = milligrams per liter
- 9 S.U. = standard units.
10. deg F = degrees Fahrenheit.
11. Soil samples for VOC analysis were preserved in the field with deionized water.

**Validators Qualifiers:**

- G The result is estimated due to duplicate precision outside control limits.

**Table 2. Chemical Testing Results - Asphalt Samples**  
**Former Tombarello Site**  
**Lawrence, Massachusetts**

			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Sample Name			AS-1	AS-2	AS-2	AS-3	AS-4
Sample Depth (in):			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date			9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample					AS-2		
Lab Sample ID:			L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08
Analyte	Units	CAS No.					
<b>Polychlorinated Biphenyls (PCBs)</b>	mg/kg						
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Total PCBs		1336-36-3	0.986	0.508	<b>1.61</b>	0.184	0.354

**Notes:**

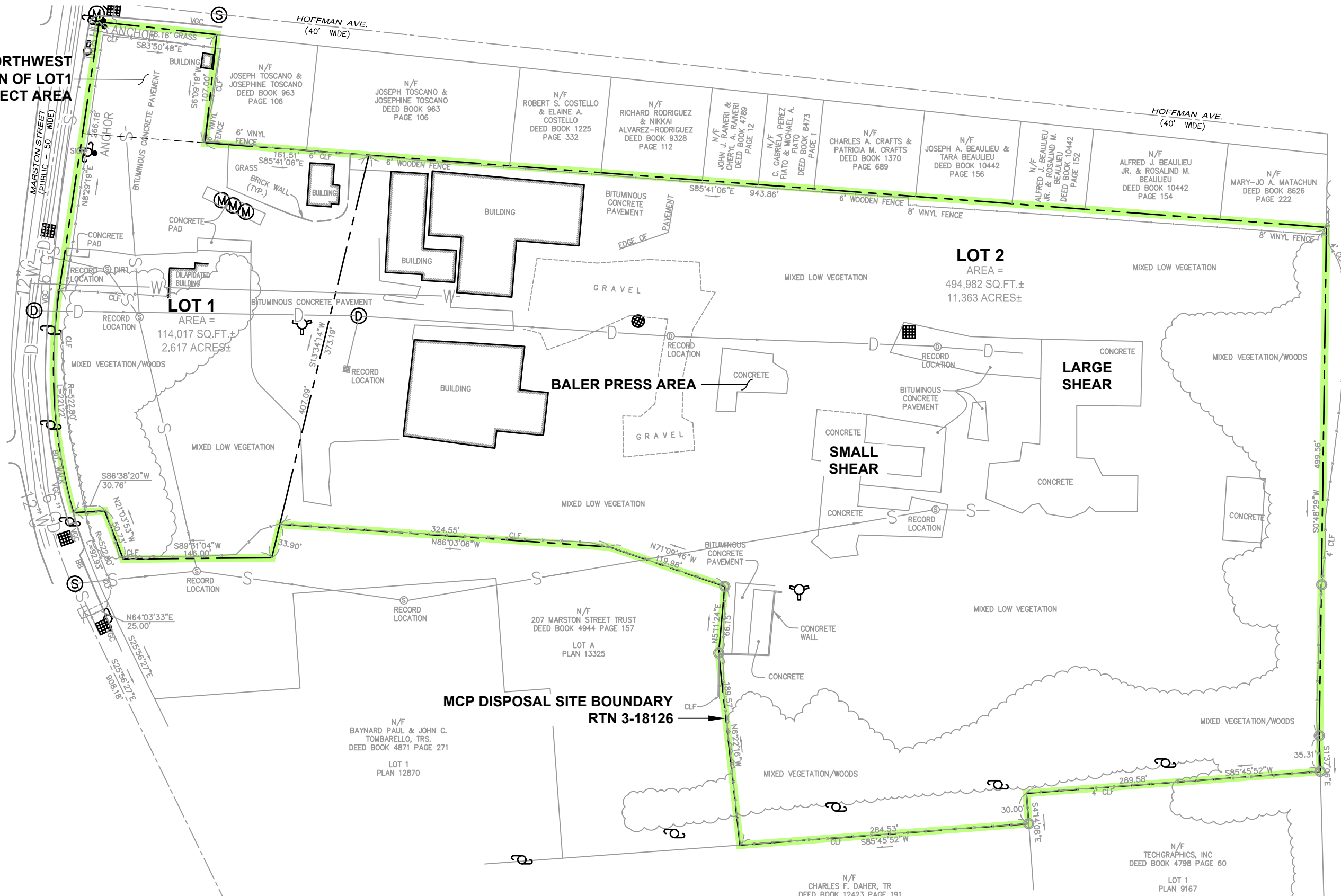
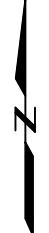
1. <= The analyte was not detected at a concentration above the specified laboratory reporting limit.
2. in = inches
3. mg/kg = milligrams/kilogram.
4. CAS No. = Chemical Abstracts Service Number
5. Bolding indicates the detected concentration is greater than 1 mg/kg.

# Figures

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**NORTHWEST  
PORTION OF LOT1  
AND PROJECT AREA**

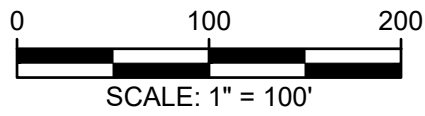


**LEGEND:**

PROPERTY BOUNDARY AND  
MCP DISPOSAL SITE BOUNDARY (RTN 3-18126)

**NOTES:**

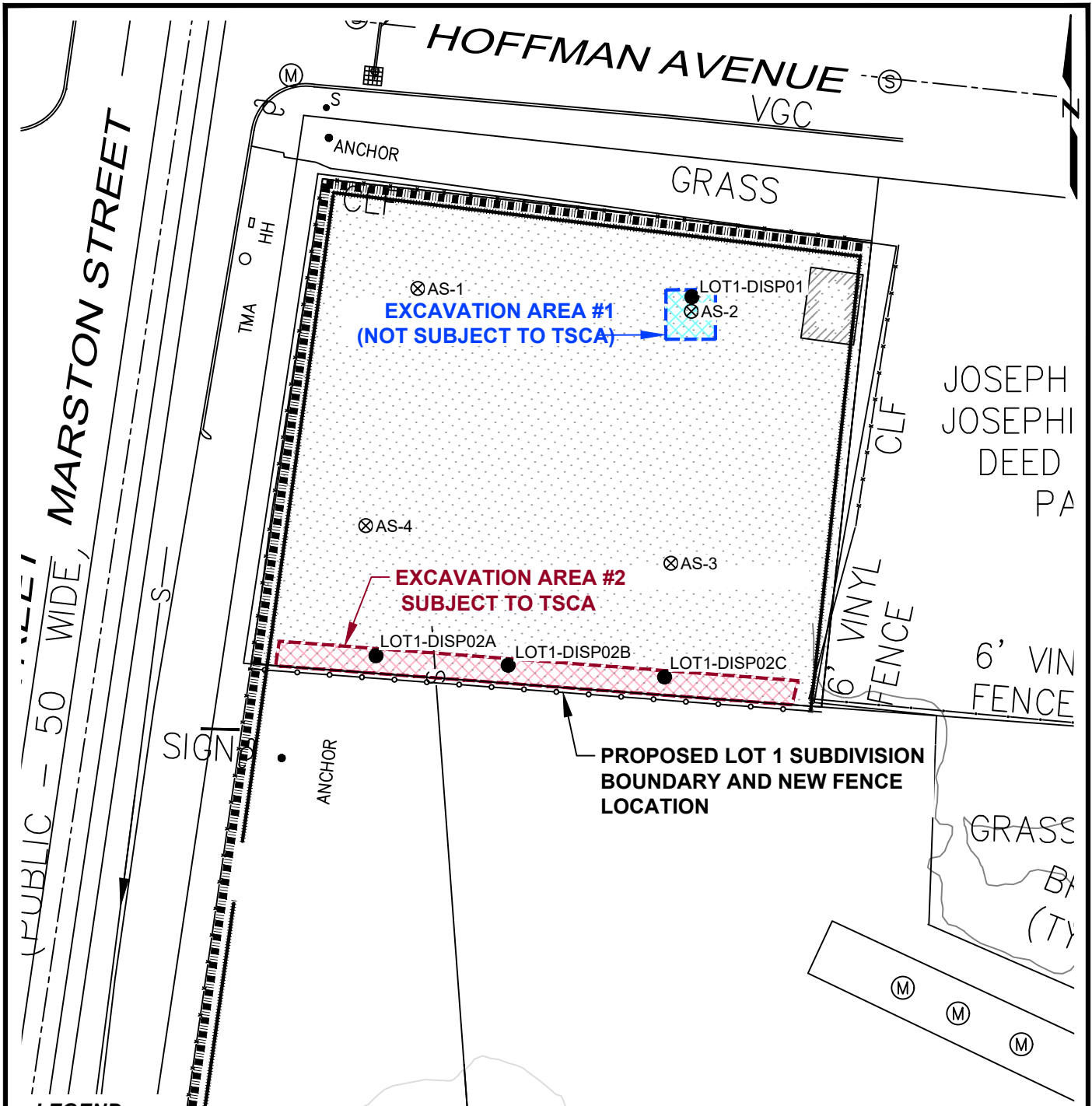
1. BASE PLAN FROM "EXISTING CONDITIONS PLAN, 207 MARSTON STREET,  
LAWRENCE, MA," PREPARED BY NITSCH ENGINEERING INC. DATED 4/1/2019.



Former Tombarello Property  
Lawrence, Massachusetts  
  
City of Lawrence  
Lawrence, Massachusetts

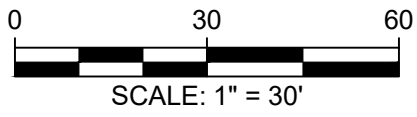



DISPOSAL SITE PLAN  
  
Project 1802441    May 2020    Fig. 1



**LEGEND:**

- ⊗ ASPHALT SAMPLE, GEI 2020
- SOIL DISPOSAL CHARACTERIZATION SAMPLE, GEI 2020
- [Red Hatched Box] EXCAVATION AREA #2 (SUBJECT TO TSCA)
- [Blue Hatched Box] EXCAVATION AREA #1 (NOT SUBJECT TO TSCA)
- [Dotted Box] EXTENT OF ASPHALT SURFACE COVER REMOVAL, LOAM, AND SEED
- [Dashed Line] PRIVACY SCREEN INSTALLED ON EXISTING FENCING



Former Tombarello Property Lawrence, Massachusetts		LOT 1 EXCAVATION AREAS AND DISPOSAL SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts		Project 1802441    May 2020

# **Appendix A**

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## **Waste Management EZ Profile Form**



Requested Facility: Turnkey Landfill
Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: City of Lawrence
2. Site Address: 207 Marston Street
3. County: Middlesex
4. Contact Name: Pedro Soto
5. Email: psoto@cityoflawrence.com
6. Phone: 978-620-3501
7. Fax:
8. Generator EPA ID:
9. State ID:

C. MATERIAL INFORMATION

- 1. Common Name: Urban soil and asphalt surface cover
Describe Process Generating Material: See Attached
2. Material Composition and Contaminants: See Attached
Table with 2 columns: Contaminant, Percentage
3. State Waste Codes:
4. Color: brown, black, gray
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage:
7. pH:
8. Strong Odor: No
9. Flash Point: >=200°F

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached: Yes
Please identify applicable samples and/or lab reports:
See Table 1 for applicable lab report and sample IDs for soil.
See Table 2 for applicable lab data report and sample IDs for asphalt.
2. Other information attached (such as MSDS?): Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Pedro Soto Date: 5/1/2020
Title: Planning Director
Company: City of Lawrence

B. BILLING INFORMATION

SAME AS GENERATOR

- 1. Billing Name: W.L. French Excavating Corp.
2. Billing Address: 14 Sterling Rd
3. Contact Name: Dan Walsh
4. Email: dwalsh@wlfrench.com
5. Phone: 978-663-2623
6. Fax:
7. WM Hauled?
8. P.O. Number:
9. Payment Method: Credit Account, Cash, Credit Card

D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste?
2. State Hazardous Waste?
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?
4. Contains Underlying Hazardous Constituents?
5. From an industry regulated under Benzene NESHAP?
6. Facility remediation subject to 40 CFR 63 GGGGG?
7. CERCLA or State-mandated clean-up?
8. NRC or State-regulated radioactive or NORM waste?
9. Contains PCBs?
10. Regulated and/or Untreated Medical/Infectious Waste?
11. Contains Asbestos?

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event
2. Estimated Quantity/Unit of Measure: 417
3. Container Type and Size: end dump trailer
4. USDOT Proper Shipping Name:

Certification Signature

Handwritten signature of Pedro Soto



**Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.**

Profile Number: \_\_\_\_\_

### C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	≥100%

### D. REGULATORY INFORMATION

**Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.**

#### 1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?  Yes  No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4.  Yes  No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?  Yes  No  
 → If Yes, please check **one** of the following:
  - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
  - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: \_\_\_\_\_

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:  
 Delisted Hazardous Waste       Excluded Waste under 40 CFR 261.4 → Specify Exclusion: \_\_\_\_\_  
 Treated Hazardous Waste Debris       Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

#### 5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.  Yes  No
- b. Does this material contain benzene?  Yes  No  
 1. If yes, what is the flow weighted average concentration? \_\_\_\_\_ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams?  <1 Mg    1–9.99 Mg    ≥10 Mg
- d. Is this waste soil from a remediation?  Yes  No  
 1. If yes, what is the benzene concentration in remediation waste? \_\_\_\_\_ ppmw
- e. Does the waste contain >10% water/moisture?  Yes  No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?  Yes  No
- g. Is material exempt from controls in accordance with 40 CFR 61.342?  Yes  No  
 → If yes, specify exemption: \_\_\_\_\_
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?  Yes  No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination?  Yes  No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: \_\_\_\_\_



# Additional Profile Information

Profile Number: \_\_\_\_\_

### C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2):

If more space is needed, please attach additional pages.

10.	
11.	
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33.	
34.	
35.	
36.	
37.	
38.	
39.	
40.	
Total composition must be equal to or greater than 100%	
	≥100%

### D. REGULATORY INFORMATION

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

2. Form Code:

3. Source Code:



# Additional Profile Information

Profile Number: \_\_\_\_\_

## F. SHIPPING AND DOT INFORMATION

### 4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	<input type="checkbox"/> N/A
3.	<input type="checkbox"/> N/A
4.	<input type="checkbox"/> N/A
5.	<input type="checkbox"/> N/A
6.	<input type="checkbox"/> N/A
7.	<input type="checkbox"/> N/A
8.	<input type="checkbox"/> N/A
9.	<input type="checkbox"/> N/A
10.	<input type="checkbox"/> N/A
11.	<input type="checkbox"/> N/A
12.	<input type="checkbox"/> N/A
13.	<input type="checkbox"/> N/A
14.	<input type="checkbox"/> N/A
15.	<input type="checkbox"/> N/A
16.	<input type="checkbox"/> N/A
17.	<input type="checkbox"/> N/A
18.	<input type="checkbox"/> N/A
19.	<input type="checkbox"/> N/A
20.	<input type="checkbox"/> N/A
21.	<input type="checkbox"/> N/A
22.	<input type="checkbox"/> N/A
23.	<input type="checkbox"/> N/A
24.	<input type="checkbox"/> N/A
25.	<input type="checkbox"/> N/A
26.	<input type="checkbox"/> N/A
27.	<input type="checkbox"/> N/A
28.	<input type="checkbox"/> N/A
29.	<input type="checkbox"/> N/A
30.	<input type="checkbox"/> N/A
31.	<input type="checkbox"/> N/A
32.	<input type="checkbox"/> N/A
33.	<input type="checkbox"/> N/A
34.	<input type="checkbox"/> N/A
35.	<input type="checkbox"/> N/A
36.	<input type="checkbox"/> N/A
37.	<input type="checkbox"/> N/A
38.	<input type="checkbox"/> N/A
39.	<input type="checkbox"/> N/A
40.	<input type="checkbox"/> N/A
41.	<input type="checkbox"/> N/A
42.	<input type="checkbox"/> N/A
43.	<input type="checkbox"/> N/A
44.	<input type="checkbox"/> N/A
45.	<input type="checkbox"/> N/A
46.	<input type="checkbox"/> N/A
47.	<input type="checkbox"/> N/A
48.	<input type="checkbox"/> N/A
49.	<input type="checkbox"/> N/A
50.	<input type="checkbox"/> N/A
51.	<input type="checkbox"/> N/A



# Additional Profile Information

Profile Number: \_\_\_\_\_

## C. MATERIAL INFORMATION

3. State Waste Codes (Continued from page 1):

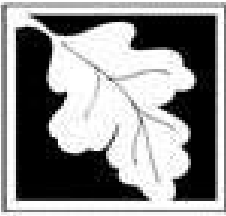
2.
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## **Appendix B**

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**Bill of Lading (BOL; BWSC112)**



**BILL OF LADING (pursuant to 310 CMR 40.0030)**

3 - 18126

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

1. Release Name/Location Aid: TOMBARELLO AND SONS INC HOFMAN AVE
2. Street Address: 207 MARSTON ST
3. City/Town: LAWRENCE 4. Zip Code: 018410000
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 5/1/2020 to 8/31/2020  
 (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: ASPHALT PAVEMENT
2. Uncontainerized Waste (check all that apply):  
 a. Inorganic Absorbent Materials     b. Other: \_\_\_\_\_



**BILL OF LADING (pursuant to 310 CMR 40.0030)**

**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: 420  Tons  Cu. Yds.  Gallons

5. Contaminant Source (check one):

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

d. Other: \_\_\_\_\_

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: \_\_\_\_\_

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: DAN 3. Last Name: WALSH

4. Street: 14 STERLING ROAD 5. Title: SR. ENVIRONMENTAL PROJECT MANAGE

6. City/Town: BILLERICA 7. State: MA 8. Zip Code: 018620000

9. Telephone: 9786002106 10. Ext: \_\_\_\_\_ 11. Email: dwalsh@wlfrench.com



**BILL OF LADING (pursuant to 310 CMR 40.0030)**

**E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:**

1. Operator/Facility Name: WASTE MANAGEMENT OF NH (TREE)

2. Contact First Name: ELLEN 3. Last Name: BELLIO

4. Street: 90 ROCHESTER NECK ROAD 5. Title: SR. MGR. WASTE APPROVALS

6. City/Town: ROCHESTER 7. State: NH 8. Zip Code: 038397065

9. Telephone: 8009634776 10. Ext: \_\_\_\_\_ 11. Email: EBELLIO@WM.COM

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: \_\_\_\_\_

14. Division of Solid Waste Permit Number: DES-SW-SP-95-001

15. EPA Identification Number: \_\_\_\_\_

**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 #: 9719

2. First Name: ILEENS 3. Last Name: GLADSTONE

4. Telephone: 7817214012 5. Ext: \_\_\_\_\_ 6. Email: igladstone@geiconsultants.com

7. Signature: \_\_\_\_\_

8. Date: \_\_\_\_\_  
(mm/dd/yyyy)

9. LSP Stamp:





**BILL OF LADING (pursuant to 310 CMR 40.0030)**

**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: CITY OF LAWRENCE
3. Contact First Name: PEDRO 4. Last Name: SOTO
5. Street: 12 METHUEN STREET 6. Title: PLANNING DIRECTOR
7. City/Town: LAWRENCE 8. State: MA 9. Zip Code: 018400000
10. Telephone: 9786203501 11. Ext: \_\_\_\_\_ 12. Email: psoto@cityoflawrence.com

**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, \_\_\_\_\_, 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: \_\_\_\_\_ 3. Title: PLANNING DIRECTOR
4. For: CITY OF LAWRENCE 5. Date: \_\_\_\_\_  
(Name of person or entity recorded in Section G) (mm/dd/yyyy)



**BILL OF LADING (pursuant to 310 CMR 40.0030)**

**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.

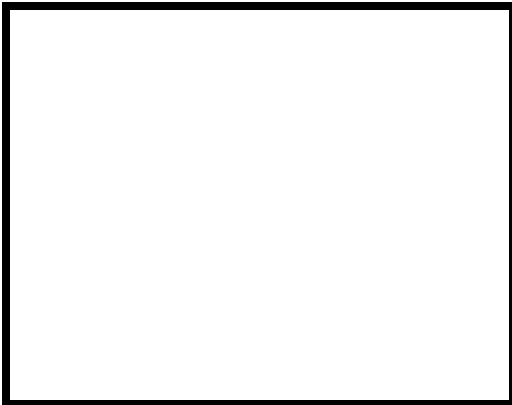
7. Street: \_\_\_\_\_

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):



ATTACHMENT TO BWSC112  
RTN 3-18126  
QUESTION H.1.

The Response Actions are subject to the Toxic Substances Control Act (TSCA; 40 CFR 761) and EPA approval of the Self Implementing PCB Cleanup Plan dated April 2020 prepared by GEI Consultants, Inc.

# **Appendix C**

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## **Self-Implementing PCB Cleanup and Disposal Plan**



# Appendix D

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## Laboratory Data Reports



*CERTIFICATE OF ANALYSIS*

Leslie Lombardo  
 GEI Consultants, Inc.  
 400 Unicorn Park Drive  
 Woburn, MA 01801

**RE: Tombarello Site Investigation (1802441)**  
**ESS Laboratory Work Order Number: 20C0466**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
 Laboratory Director

**REVIEWED**

*By ESS Laboratory at 1:52 pm, Apr 17, 2020*

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**SAMPLE RECEIPT**

The following samples were received on March 13, 2020 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Low Level VOA vials were frozen by ESS Laboratory on March 13, 2020 at 20:29.**

**Question I: All samples for Metals were analyzed for a subset of the required MCP list per the client's request.**

**Revision 1 April 1, 2020: This report has been revised to include TPH results for samples 20C0466-01 and 20C0466-03 per the client's request.**

**Revision 2 April 16, 2020: This report has been revised to include Pyridine for samples 20C0466-01 and 20C0466-03 per the client's request.**

Lab Number	Sample Name	Matrix	Analysis
20C0466-01	1802441-Lot1-DISP01	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8260B Low, 8270D, 9045
20C0466-02	1802441-Lot1-DISP02-Grab	Soil	8260B Low
20C0466-03	1802441-Lot1-DISP02-Comp	Soil	1010, 1311, 1311/6010C, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8082A, 8100M, 8270D, 9045



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**PROJECT NARRATIVE**

**5035/8260B Volatile Organic Compounds / Low Level**

- D0C0330-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)  
Acetone (21% @ 20%), Chloroethane (21% @ 20%), Chloromethane (22% @ 20%), Tetrahydrofuran (22% @ 20%), Vinyl Chloride (22% @ 20%)
- D0C0358-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)  
Bromomethane (22% @ 20%)
- DC01838-BSD1 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)  
Acetone (21% @ 20%), Bromomethane (21% @ 20%)

**8270D Semi-Volatile Organic Compounds**

- 20C0466-01 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)
- 20C0466-03 [Elevated Method Reporting Limits due to sample matrix \(EL\).](#)
- D0C0313-CCV1 [Calibration required quadratic regression \(Q\).](#)  
2,4-Dinitrophenol (129% @ 80-120%), Pentachlorophenol (109% @ 80-120%)
- D0C0313-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)  
2,4-Dinitrophenol (29% @ 20%)

**No other observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

*To ensure you are viewing the most current version of the documents below, please clear your internet cookies for [www.ESSLaboratory.com](http://www.ESSLaboratory.com). Consult your IT Support personnel for information on how to clear your internet cookies.*

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**CURRENT SW-846 METHODOLOGY VERSIONS**

**Analytical Methods**

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

**Prep Methods**

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**MassDEP Analytical Protocol Certification Form**

MADEP RTN: \_\_\_\_\_

This form provides certification for the following data set: **20C0466-01 through 20C0466-03**

Matrices: ( ) Ground Water/Surface Water       Soil/Sediment      ( ) Drinking Water      ( ) Air      ( ) Other: \_\_\_\_\_

**CAM Protocol** (check all that apply below):

- |  |   |   |   |   |                                    |
|--|---|---|---|---|------------------------------------|
| <input checked="" type="checkbox"/> 8260 VOC<br>CAM II A     | <input checked="" type="checkbox"/> 7470/7471 Hg<br>CAM III B | ( ) MassDEP VPH<br>(GC/PID/FID)<br>CAM IV A | <input checked="" type="checkbox"/> 8082 PCB<br>CAM V A | ( ) 9014 Total<br>Cyanide/PAC<br>CAM VI A | ( ) 6860 Perchlorate<br>CAM VIII B |
| <input checked="" type="checkbox"/> 8270 SVOC<br>CAM II B    | ( ) 7010 Metals<br>CAM III C                                  | ( ) MassDEP VPH<br>(GC/MS)<br>CAM IV C      | ( ) 8081 Pesticides<br>CAM V B                          | ( ) 7196 Hex Cr<br>CAM VI B               | ( ) MassDEP APH<br>CAM IX A        |
| <input checked="" type="checkbox"/> 6010 Metals<br>CAM III A | ( ) 6020 Metals<br>CAM III D                                  | ( ) MassDEP EPH<br>CAM IV B                 | ( ) 8151 Herbicides<br>CAM V C                          | ( ) Explosives<br>CAM VIII A              | ( ) TO-15 VOC<br>CAM IX B          |

*Affirmative responses to questions A through F are 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  No ( )
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes  No ( )
- 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  No ( )
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes  No ( )
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). Yes ( ) No ( )
- b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes ( ) No ( )
- 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  No ( )

*Responses to Questions G, H and I below are required for "Presumptive Certainty" status*

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes ( ) No \*  
*Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.*
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes ( ) No \*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes ( ) No \*

*\*All negative responses must be addressed in an attached laboratory narrative.*

*I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.*

Signature: Laurel Stoddard  
Printed Name: Laurel Stoddard

Date: March 20, 2020  
Position: Laboratory Director



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry

Extraction Method: 3050B

**Total Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.61 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Barium	171 (2.20)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Cadmium	1.17 (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Chromium	33.9 (0.88)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Lead	392 (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Mercury	0.559 (0.033)		7471B		1	MKS	03/17/20 8:33	0.68	40	DC01643
Selenium	ND (4.41)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642
Silver	ND (0.44)		6010C		1	KJK	03/17/20 20:54	2.57	100	DC01642



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/L

Extraction Method: 3005A TCLP

**1311 TCLP Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	0.281 (0.050)		1311/6010C		1	KJK	03/19/20 20:36	50	50	DC01937





*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 8.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,1-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
<b>1,1,2,2-Tetrachloroethane</b>	<b>0.0059 (0.0014)</b>		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1,2-Trichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,1-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,3-Trichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2,4-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromo-3-Chloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dibromoethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloroethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3,5-Trimethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,3-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dichlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
1,4-Dioxane	ND (0.0682)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2,2-Dichloropropane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Butanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
2-Hexanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Chlorotoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Isopropyltoluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
4-Methyl-2-Pentanone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Acetone	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Benzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromochloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 8.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromoform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Bromomethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Disulfide	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Carbon Tetrachloride	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chlorobenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloroform	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Chloromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
cis-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromochloromethane	ND (0.0014)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dibromomethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Dichlorodifluoromethane	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Diethyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Di-isopropyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethyl tertiary-butyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Ethylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Hexachlorobutadiene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Isopropylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methyl tert-Butyl Ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Methylene Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Naphthalene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
n-Propylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
sec-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Styrene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
tert-Butylbenzene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tertiary-amyl methyl ether	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
<b>Tetrachloroethene</b>	<b>0.0089</b> (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Tetrahydrofuran	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Toluene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838



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Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 8.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
trans-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichloroethene	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Trichlorofluoromethane	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Vinyl Chloride	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene O	ND (0.0034)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylene P,M	ND (0.0068)		8260B Low		1	03/18/20 20:39	D0C0330	DC01838
Xylenes (Total)	ND (0.00682)		8260B Low		1	03/18/20 20:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>		<i>70-130</i>



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 19.6  
Final Volume: 10  
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: DMC  
Prepared: 3/17/20 14:30

**8082A Polychlorinated Biphenyls (PCB)**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1221	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1232	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1242	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1248	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1254	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1260	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1262	ND (0.06)		8082A		1	03/18/20 21:32		DC01701
Aroclor 1268	ND (0.06)		8082A		1	03/18/20 21:32		DC01701

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	67 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	89 %		30-150



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 19.4  
Final Volume: 1  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: CAD  
Prepared: 3/24/20 14:49

**8100M Total Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	352 (58.4)		8100M		5	03/25/20 23:09	D0C0445	DC02311
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		88 %		40-140				



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Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 15.1  
Final Volume: 1  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,2-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,3-Dichlorobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.369)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.374)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.338)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrophenol	ND (2.51)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.482)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2,6-Dinitrotoluene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chloronaphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Chlorophenol	ND (0.423)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylnaphthalene	ND (0.324)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Methylphenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
2-Nitrophenol	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
3+4-Methylphenol	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Chloroaniline	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
4-Nitrophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acenaphthylene	ND (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Acetophenone	ND (3.00)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Aniline	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Anthracene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Azobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Benzo(a)anthracene</b>	<b>2.28</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Benzo(a)pyrene</b>	<b>2.52</b> (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Benzo(b)fluoranthene</b>	<b>2.42</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Benzo(g,h,i)perylene</b>	<b>1.75</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Benzo(k)fluoranthene</b>	<b>1.72</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609



*CERTIFICATE OF ANALYSIS*

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Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 15.1  
Final Volume: 1  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.405)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.401)		8270D		2	03/19/20 2:54	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Butylbenzylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Chrysene</b>	<b>2.30</b> (0.752)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Dibenzo(a,h)Anthracene</b>	<b>0.575</b> (0.230)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dibenzofuran	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Diethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Dimethylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-butylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Di-n-octylphthalate	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Fluoranthene</b>	<b>4.54</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Fluorene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobenzene	ND (0.252)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachlorobutadiene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Hexachloroethane	ND (0.378)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Indeno(1,2,3-cd)Pyrene</b>	<b>1.50</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Isophorone	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Naphthalene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Nitrobenzene	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
N-Nitrosodimethylamine	ND (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pentachlorophenol	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Phenanthrene</b>	<b>2.43</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Phenol	ND (0.365)		8270D		2	03/19/20 2:54	D0C0313	DC01609
<b>Pyrene</b>	<b>4.39</b> (1.50)		8270D		2	03/19/20 2:54	D0C0313	DC01609
Pyridine	ND (7.52)		8270D		2	03/19/20 2:54	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	56 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	77 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	62 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 15.1  
Final Volume: 1  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
<i>Surrogate: 2-Fluorobiphenyl</i>		65 %		30-130				
<i>Surrogate: 2-Fluorophenol</i>		54 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		59 %		30-130				
<i>Surrogate: Phenol-d6</i>		62 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		83 %		30-130				





*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil

**Classical Chemistry**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.75 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.6 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP01  
Date Sampled: 03/12/20 08:40  
Percent Solids: 88  
Initial Volume: 100  
Final Volume: 2000  
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-01  
Sample Matrix: Soil  
Units: °C  
Analyst: MKS  
Prepared: 3/18/20 20:15

**TCLP Extraction by 1311**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Grab  
Date Sampled: 03/12/20 08:50  
Percent Solids: 93  
Initial Volume: 8.4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-02  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,1-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1,2-Trichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,1-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,3-Trichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2,4-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromo-3-Chloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dibromoethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloroethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3,5-Trimethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,3-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dichlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
1,4-Dioxane	ND (0.0642)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2,2-Dichloropropane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
<b>2-Butanone</b>	<b>0.0154</b> (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
2-Hexanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Chlorotoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Isopropyltoluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
4-Methyl-2-Pentanone	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
<b>Acetone</b>	<b>0.123</b> (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Benzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromochloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Grab  
Date Sampled: 03/12/20 08:50  
Percent Solids: 93  
Initial Volume: 8.4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-02  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromoform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Bromomethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Disulfide	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Carbon Tetrachloride	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chlorobenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloroform	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Chloromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
cis-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromochloromethane	ND (0.0013)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dibromomethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Dichlorodifluoromethane	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Diethyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Di-isopropyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethyl tertiary-butyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Ethylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Hexachlorobutadiene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Isopropylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methyl tert-Butyl Ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Methylene Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Naphthalene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
n-Propylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
sec-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Styrene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
tert-Butylbenzene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tertiary-amyl methyl ether	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrachloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Tetrahydrofuran	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Toluene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
 Client Project ID: Tombarello Site Investigation  
 Client Sample ID: 1802441-Lot1-DISP02-Grab  
 Date Sampled: 03/12/20 08:50  
 Percent Solids: 93  
 Initial Volume: 8.4  
 Final Volume: 10  
 Extraction Method: 5035

ESS Laboratory Work Order: 20C0466  
 ESS Laboratory Sample ID: 20C0466-02  
 Sample Matrix: Soil  
 Units: mg/kg dry  
 Analyst: MEK

**5035/8260B Volatile Organic Compounds / Low Level**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
trans-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichloroethene	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Trichlorofluoromethane	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Vinyl Chloride	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene O	ND (0.0032)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylene P,M	ND (0.0064)		8260B Low		1	03/19/20 16:58	D0C0358	DC01938
Xylenes (Total)	ND (0.00642)		8260B Low		1	03/19/20 16:58		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	82 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	106 %		70-130
<i>Surrogate: Toluene-d8</i>	112 %		70-130



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry

Extraction Method: 3050B

**Total Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.93 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Barium	57.3 (2.24)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Cadmium	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Chromium	15.6 (0.90)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Lead	185 (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Mercury	0.059 (0.027)		7471B		1	MKS	03/17/20 8:35	0.8	40	DC01643
Selenium	ND (4.48)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642
Silver	ND (0.45)		6010C		1	KJK	03/17/20 21:13	2.41	100	DC01642



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/L

Extraction Method: 3005A TCLP

**1311 TCLP Metals**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	1.26 (0.050)		1311/6010C		1	KJK	03/19/20 21:08	50	50	DC01937



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 20.1  
Final Volume: 10  
Extraction Method: 3540C

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: DMC  
Prepared: 3/17/20 14:30

**8082A Polychlorinated Biphenyls (PCB)**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1221	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1232	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
<b>Aroclor 1242</b>	<b>0.1</b> (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1248	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1254	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
<b>Aroclor 1260</b>	<b>0.06</b> (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1262	ND (0.05)		8082A		1	03/19/20 13:03		DC01930
Aroclor 1268	ND (0.05)		8082A		1	03/19/20 13:03		DC01930

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150





*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 19.4  
Final Volume: 1  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: CAD  
Prepared: 3/24/20 14:49

**8100M Total Petroleum Hydrocarbons**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	876 (111)		8100M		10	03/25/20 23:42	D0C0445	DC02311
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>107 %</i>		<i>40-140</i>				



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 15.7  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,2-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,3-Dichlorobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
1,4-Dichlorobenzene	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,5-Trichlorophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4,6-Trichlorophenol	ND (0.169)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dichlorophenol	ND (0.171)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dimethylphenol	ND (0.155)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrophenol	ND (1.15)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,4-Dinitrotoluene	ND (0.221)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2,6-Dinitrotoluene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chloronaphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Chlorophenol	ND (0.194)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>2-Methylnaphthalene</b>	<b>0.298</b> (0.148)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Methylphenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
2-Nitrophenol	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3,3'-Dichlorobenzidine	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
3+4-Methylphenol	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Bromophenyl-phenylether	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Chloroaniline	ND (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
4-Nitrophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acenaphthene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Acenaphthylene</b>	<b>1.40</b> (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Acetophenone	ND (1.38)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Aniline	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Anthracene</b>	<b>2.30</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Azobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Benzo(a)anthracene</b>	<b>5.58</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Benzo(a)pyrene</b>	<b>5.77</b> (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Benzo(b)fluoranthene</b>	<b>4.97</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Benzo(g,h,i)perylene</b>	<b>3.21</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Benzo(k)fluoranthene</b>	<b>4.00</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 15.7  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Chloroethyl)ether	ND (0.186)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-chloroisopropyl)Ether	ND (0.184)		8270D		2	03/19/20 3:20	D0C0313	DC01609
bis(2-Ethylhexyl)phthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Butylbenzylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Chrysene</b>	<b>5.41</b> (0.344)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Dibenzo(a,h)Anthracene</b>	<b>1.16</b> (0.105)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dibenzofuran	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Diethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Dimethylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-butylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Di-n-octylphthalate	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Fluoranthene</b>	<b>11.1</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Fluorene</b>	<b>0.826</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobenzene	ND (0.115)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachlorobutadiene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Hexachloroethane	ND (0.173)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Indeno(1,2,3-cd)Pyrene</b>	<b>3.07</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Isophorone	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Naphthalene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Nitrobenzene	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
N-Nitrosodimethylamine	ND (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pentachlorophenol	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Phenanthrene</b>	<b>8.30</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Phenol	ND (0.167)		8270D		2	03/19/20 3:20	D0C0313	DC01609
<b>Pyrene</b>	<b>10.8</b> (0.687)		8270D		2	03/19/20 3:20	D0C0313	DC01609
Pyridine	ND (3.44)		8270D		2	03/19/20 3:20	D0C0313	DC01609

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	49 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	73 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	54 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 15.7  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: TJ  
Prepared: 3/16/20 10:40

**8270D Semi-Volatile Organic Compounds**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
<i>Surrogate: 2-Fluorobiphenyl</i>		57 %		30-130				
<i>Surrogate: 2-Fluorophenol</i>		47 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		51 %		30-130				
<i>Surrogate: Phenol-d6</i>		53 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		78 %		30-130				



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil

**Classical Chemistry**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Corrosivity (pH)	7.15 (N/A)		9045		1	DEL	03/13/20 20:45	S.U.	DC01326
Corrosivity (pH) Sample Temp	Soil pH measured in water at 19.3 °C.								
Flashpoint	> 200 (N/A)		1010		1	CCP	03/16/20 13:30	°F	DC01620
Reactive Cyanide	ND (2.0)		7.3.3.2		1	EEM	03/16/20 10:58	mg/kg	DC01613
Reactive Sulfide	ND (2.0)		7.3.4.1		1	EEM	03/16/20 10:58	mg/kg	DC01613



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation  
Client Sample ID: 1802441-Lot1-DISP02-Comp  
Date Sampled: 03/12/20 11:30  
Percent Solids: 93  
Initial Volume: 100  
Final Volume: 2000  
Extraction Method: 1311

ESS Laboratory Work Order: 20C0466  
ESS Laboratory Sample ID: 20C0466-03  
Sample Matrix: Soil  
Units: °C  
Analyst: MKS  
Prepared: 3/18/20 20:15

**TCLP Extraction by 1311**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Batch</u>
Temperature (Min C)	19.8 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Max C)	21.4 (N/A)		1311		1	MKS	03/19/20 12:20	DC01824
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)							



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**Total Metals**

**Batch DC01642 - 3050B**

**Blank**

Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Lead	ND	5.00	mg/kg wet
Selenium	ND	5.00	mg/kg wet
Silver	ND	0.50	mg/kg wet

**LCS**

Arsenic	187	7.69	mg/kg wet	202.0	93	80-120
Barium	320	7.69	mg/kg wet	343.0	93	80-120
Cadmium	128	1.54	mg/kg wet	149.0	86	80-120
Chromium	170	3.08	mg/kg wet	182.0	94	80-120
Lead	318	15.4	mg/kg wet	333.0	95	80-120
Selenium	158	15.4	mg/kg wet	169.0	93	80-120
Silver	45.2	1.54	mg/kg wet	48.90	92	80-120

**LCS Dup**

Arsenic	194	8.20	mg/kg wet	202.0	96	80-120	4	20
Barium	341	8.20	mg/kg wet	343.0	100	80-120	7	20
Cadmium	135	1.64	mg/kg wet	149.0	91	80-120	6	20
Chromium	176	3.28	mg/kg wet	182.0	97	80-120	3	20
Lead	333	16.4	mg/kg wet	333.0	100	80-120	5	20
Selenium	162	16.4	mg/kg wet	169.0	96	80-120	2	20
Silver	45.2	1.64	mg/kg wet	48.90	92	80-120	0.1	20

**Batch DC01643 - 7471B**

**Blank**

Mercury	ND	0.033	mg/kg wet
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**LCS**

Mercury	9.60	0.550	mg/kg wet	7.760	124	71-125
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**LCS Dup**

Mercury	9.15	0.574	mg/kg wet	7.760	118	71-125	5	20
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**1311 TCLP Metals**

**Batch DC01937 - 3005A\_TCLP**

**Blank**

Lead	ND	0.050	mg/L
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**LCS**

Lead	0.469	0.050	mg/L	0.5000	94	80-120
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**LCS Dup**

Lead	0.472	0.050	mg/L	0.5000	94	80-120	0.7	20
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**5035/8260B Volatile Organic Compounds / Low Level**



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

**Blank**

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	0.0292	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							





*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: 4-Bromofluorobenzene	0.0448		mg/kg wet	0.05000		90	70-130			
Surrogate: Dibromofluoromethane	0.0463		mg/kg wet	0.05000		93	70-130			
Surrogate: Toluene-d8	0.0499		mg/kg wet	0.05000		100	70-130			

**LCS**

1,1,1,2-Tetrachloroethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
1,1,1-Trichloroethane	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,1,2,2-Tetrachloroethane	0.0459	0.0020	mg/kg wet	0.05000		92	70-130			
1,1,2-Trichloroethane	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
1,1-Dichloroethane	0.0414	0.0050	mg/kg wet	0.05000		83	70-130			
1,1-Dichloroethene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,1-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,3-Trichloropropane	0.0421	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trimethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromo-3-Chloropropane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
1,2-Dibromoethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

1,2-Dichlorobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
1,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	70-130			
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichloropropane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
1,4-Dichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,4-Dioxane	0.858	0.100	mg/kg wet	1.000		86	70-130			
2,2-Dichloropropane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
2-Butanone	0.201	0.0100	mg/kg wet	0.2500		80	70-130			
2-Chlorotoluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
2-Hexanone	0.214	0.0100	mg/kg wet	0.2500		86	70-130			
4-Chlorotoluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
4-Isopropyltoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
4-Methyl-2-Pentanone	0.208	0.0100	mg/kg wet	0.2500		83	70-130			
Acetone	0.174	0.0100	mg/kg wet	0.2500		70	70-130			
Benzene	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Bromobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromochloromethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
Bromoform	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Bromomethane	0.0398	0.0100	mg/kg wet	0.05000		80	70-130			
Carbon Disulfide	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Carbon Tetrachloride	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Chloroethane	0.0373	0.0100	mg/kg wet	0.05000		75	70-130			
Chloroform	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Chloromethane	0.0369	0.0100	mg/kg wet	0.05000		74	70-130			
cis-1,2-Dichloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
cis-1,3-Dichloropropene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Dibromochloromethane	0.0452	0.0020	mg/kg wet	0.05000		90	70-130			
Dibromomethane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Dichlorodifluoromethane	0.0454	0.0100	mg/kg wet	0.05000		91	70-130			
Diethyl Ether	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Di-isopropyl ether	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
Ethyl tertiary-butyl ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
Ethylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Hexachlorobutadiene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Isopropylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Methyl tert-Butyl Ether	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Methylene Chloride	0.0463	0.0100	mg/kg wet	0.05000		93	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0398	0.0050	mg/kg wet	0.05000		80	70-130			
n-Propylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
sec-Butylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

Styrene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
tert-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Tetrachloroethene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrahydrofuran	0.0374	0.0050	mg/kg wet	0.05000		75	70-130			
Toluene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,2-Dichloroethene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
Trichloroethene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
Trichlorofluoromethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Vinyl Chloride	0.0368	0.0100	mg/kg wet	0.05000		74	70-130			
Xylene O	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Xylene P,M	0.0946	0.0100	mg/kg wet	0.1000		95	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0472		mg/kg wet	0.05000		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0482		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0469		mg/kg wet	0.05000		94	70-130			

**LCS Dup**

1,1,1,2-Tetrachloroethane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
1,1,2,2-Tetrachloroethane	0.0495	0.0020	mg/kg wet	0.05000		99	70-130	8	20	
1,1,2-Trichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
1,1-Dichloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	10	20	
1,1-Dichloroethene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,1-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,3-Trichlorobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,2,3-Trichloropropane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	9	20	
1,2,4-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
1,2,4-Trimethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	9	20	
1,2-Dibromo-3-Chloropropane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	8	20	
1,2-Dibromoethane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	12	20	
1,2-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	6	20	
1,2-Dichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	9	20	
1,2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	8	20	
1,3,5-Trimethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
1,3-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	6	20	
1,3-Dichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	12	20	
1,4-Dichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	7	20	
1,4-Dioxane	0.904	0.100	mg/kg wet	1.000		90	70-130	5	20	
2,2-Dichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	8	20	
2-Butanone	0.222	0.0100	mg/kg wet	0.2500		89	70-130	10	20	
2-Chlorotoluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	6	20	
2-Hexanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130	15	20	
4-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	7	20	
4-Isopropyltoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	9	20	



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

4-Methyl-2-Pentanone	0.230	0.0100	mg/kg wet	0.2500		92	70-130	10	20	
Acetone	0.216	0.0100	mg/kg wet	0.2500		86	70-130	21	20	D+
Benzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	9	20	
Bromobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	7	20	
Bromochloromethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Bromodichloromethane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	9	20	
Bromoform	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Bromomethane	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	21	20	D+
Carbon Disulfide	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Carbon Tetrachloride	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	9	20	
Chlorobenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	11	20	
Chloroethane	0.0413	0.0100	mg/kg wet	0.05000		83	70-130	10	20	
Chloroform	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	10	20	
Chloromethane	0.0412	0.0100	mg/kg wet	0.05000		82	70-130	11	20	
cis-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	9	20	
cis-1,3-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	8	20	
Dibromochloromethane	0.0509	0.0020	mg/kg wet	0.05000		102	70-130	12	20	
Dibromomethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
Dichlorodifluoromethane	0.0506	0.0100	mg/kg wet	0.05000		101	70-130	11	20	
Diethyl Ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	8	20	
Di-isopropyl ether	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	10	20	
Ethyl tertiary-butyl ether	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	9	20	
Ethylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	10	20	
Hexachlorobutadiene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Isopropylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	7	20	
Methyl tert-Butyl Ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	7	20	
Methylene Chloride	0.0483	0.0100	mg/kg wet	0.05000		97	70-130	4	20	
Naphthalene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	15	20	
n-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	13	20	
n-Propylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	8	20	
sec-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	8	20	
Styrene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	12	20	
tert-Butylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	20	
Tertiary-amyl methyl ether	0.0600	0.0050	mg/kg wet	0.05000		120	70-130	8	20	
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	13	20	
Tetrahydrofuran	0.0425	0.0050	mg/kg wet	0.05000		85	70-130	13	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	8	20	
trans-1,2-Dichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	10	20	
trans-1,3-Dichloropropene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	8	20	
Trichloroethene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	11	20	
Trichlorofluoromethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	8	20	
Vinyl Chloride	0.0415	0.0100	mg/kg wet	0.05000		83	70-130	12	20	
Xylene O	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	10	20	
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000		105	70-130	10	20	
Surrogate: 1,2-Dichloroethane-d4	0.0471		mg/kg wet	0.05000		94	70-130			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01838 - 5035**

Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0481		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0485		mg/kg wet	0.05000		97	70-130			

**Batch DC01938 - 5035**

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							



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**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01938 - 5035**

Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0551		mg/kg wet	0.05000		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0531		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0486		mg/kg wet	0.05000		97	70-130			

**LCS**

1,1,1,2-Tetrachloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,1,1-Trichloroethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0478	0.0020	mg/kg wet	0.05000		96	70-130			
1,1,2-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,1-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloropropene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,3-Trichlorobenzene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			



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**Quality Control Data**

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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01938 - 5035**

1,2,3-Trichloropropane	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
1,2,4-Trichlorobenzene	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
1,2,4-Trimethylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0387	0.0050	mg/kg wet	0.05000		77	70-130			
1,2-Dibromoethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichlorobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloroethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,3,5-Trimethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,3-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.850	0.100	mg/kg wet	1.000		85	70-130			
2,2-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
2-Butanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.221	0.0100	mg/kg wet	0.2500		88	70-130			
4-Chlorotoluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
4-Isopropyltoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
4-Methyl-2-Pentanone	0.236	0.0100	mg/kg wet	0.2500		95	70-130			
Acetone	0.244	0.0100	mg/kg wet	0.2500		97	70-130			
Benzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Bromochloromethane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Bromodichloromethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
Bromoform	0.0379	0.0050	mg/kg wet	0.05000		76	70-130			
Bromomethane	0.0578	0.0100	mg/kg wet	0.05000		116	70-130			
Carbon Disulfide	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Carbon Tetrachloride	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Chlorobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Chloroethane	0.0494	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Chloromethane	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
cis-1,2-Dichloroethene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
cis-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Dibromochloromethane	0.0440	0.0020	mg/kg wet	0.05000		88	70-130			
Dibromomethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
Dichlorodifluoromethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130			
Diethyl Ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Ethyl tertiary-butyl ether	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Ethylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Hexachlorobutadiene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Isopropylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01938 - 5035**

Methylene Chloride	0.0472	0.0100	mg/kg wet	0.05000		94	70-130			
Naphthalene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
n-Butylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
n-Propylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
sec-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Styrene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
tert-Butylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Tetrachloroethene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0434	0.0050	mg/kg wet	0.05000		87	70-130			
Toluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
trans-1,2-Dichloroethene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,3-Dichloropropene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Trichloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Trichlorofluoromethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Vinyl Chloride	0.0521	0.0100	mg/kg wet	0.05000		104	70-130			
Xylene O	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Xylene P,M	0.0971	0.0100	mg/kg wet	0.1000		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		mg/kg wet	0.05000		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0512		mg/kg wet	0.05000		102	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

**LCS Dup**

1,1,1,2-Tetrachloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	4	20	
1,1,1-Trichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.0505	0.0020	mg/kg wet	0.05000		101	70-130	5	20	
1,1,2-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	6	20	
1,1-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	3	20	
1,2,3-Trichlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	7	20	
1,2,3-Trichloropropane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	6	20	
1,2,4-Trichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	7	20	
1,2,4-Trimethylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	4	20	
1,2-Dibromo-3-Chloropropane	0.0416	0.0050	mg/kg wet	0.05000		83	70-130	7	20	
1,2-Dibromoethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	5	20	
1,2-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	6	20	
1,2-Dichloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
1,2-Dichloropropane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	2	20	
1,3,5-Trimethylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
1,3-Dichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	4	20	
1,3-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
1,4-Dioxane	0.942	0.100	mg/kg wet	1.000		94	70-130	10	20	
2,2-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	20	





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**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01938 - 5035**

2-Butanone	0.259	0.0100	mg/kg wet	0.2500		104	70-130	4	20	
2-Chlorotoluene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
2-Hexanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130	3	20	
4-Chlorotoluene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
4-Isopropyltoluene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
4-Methyl-2-Pentanone	0.246	0.0100	mg/kg wet	0.2500		98	70-130	4	20	
Acetone	0.240	0.0100	mg/kg wet	0.2500		96	70-130	1	20	
Benzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Bromobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	6	20	
Bromochloromethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	6	20	
Bromodichloromethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	5	20	
Bromoform	0.0401	0.0050	mg/kg wet	0.05000		80	70-130	6	20	
Bromomethane	0.0605	0.0100	mg/kg wet	0.05000		121	70-130	5	20	
Carbon Disulfide	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Carbon Tetrachloride	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	4	20	
Chloroethane	0.0505	0.0100	mg/kg wet	0.05000		101	70-130	2	20	
Chloroform	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	3	20	
Chloromethane	0.0484	0.0100	mg/kg wet	0.05000		97	70-130	2	20	
cis-1,2-Dichloroethene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
cis-1,3-Dichloropropene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	4	20	
Dibromochloromethane	0.0466	0.0020	mg/kg wet	0.05000		93	70-130	6	20	
Dibromomethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	6	20	
Dichlorodifluoromethane	0.0512	0.0100	mg/kg wet	0.05000		102	70-130	2	20	
Diethyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	5	20	
Di-isopropyl ether	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	4	20	
Ethyl tertiary-butyl ether	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	20	
Ethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
Hexachlorobutadiene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
Isopropylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
Methyl tert-Butyl Ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	5	20	
Methylene Chloride	0.0492	0.0100	mg/kg wet	0.05000		98	70-130	4	20	
Naphthalene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	8	20	
n-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	4	20	
n-Propylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
sec-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	3	20	
Styrene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	3	20	
tert-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	4	20	
Tertiary-amyl methyl ether	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	5	20	
Tetrachloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	4	20	
Tetrahydrofuran	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	4	20	
Toluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
trans-1,2-Dichloroethene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
trans-1,3-Dichloropropene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	6	20	
Trichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	2	20	



*CERTIFICATE OF ANALYSIS*

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ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

**Batch DC01938 - 5035**

Trichlorofluoromethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	1	20	
Vinyl Chloride	0.0525	0.0100	mg/kg wet	0.05000		105	70-130	0.8	20	
Xylene O	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
Xylene P,M	0.101	0.0100	mg/kg wet	0.1000		101	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0507		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0496		mg/kg wet	0.05000		99	70-130			

8082A Polychlorinated Biphenyls (PCB)

**Batch DC01701 - 3540C**

<b>Blank</b>										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0194		mg/kg wet	0.02500		78	30-150			

<b>LCS</b>										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			

Surrogate: Decachlorobiphenyl	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		89	30-150			



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ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

**Batch DC01701 - 3540C**

**LCS Dup**

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		82	40-140	5	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		85	40-140	1	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		87	40-140	2	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		83	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			

**Batch DC01930 - 3540C**

**Blank**

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0179		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0208		mg/kg wet	0.02500		83	30-150			

**LCS**

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			



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**Quality Control Data**

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**8082A Polychlorinated Biphenyls (PCB)**

**Batch DC01930 - 3540C**

**LCS Dup**

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140	3	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	4	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0219</i>		mg/kg wet	<i>0.02500</i>		<i>87</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0211</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0209</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0230</i>		mg/kg wet	<i>0.02500</i>		<i>92</i>	<i>30-150</i>			

**8100M Total Petroleum Hydrocarbons**

**Batch DC02311 - 3546**

**Blank**

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
<i>Surrogate: O-Terphenyl</i>	<i>5.11</i>		mg/kg wet	<i>5.000</i>		<i>102</i>	<i>40-140</i>			

**LCS**

Decane (C10)	1.9	0.2	mg/kg wet	2.500		77	40-140			
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Dodecane (C12)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Hexatriacontane (C36)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Nonane (C9)	1.7	0.2	mg/kg wet	2.500		69	30-140			
Octacosane (C28)	2.5	0.2	mg/kg wet	2.500		99	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		85	40-140			



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**8100M Total Petroleum Hydrocarbons**

**Batch DC02311 - 3546**

Total Petroleum Hydrocarbons	32.0	10.0	mg/kg wet	35.00		91	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		97	40-140			

<i>Surrogate: O-Terphenyl</i>	<i>5.00</i>		mg/kg wet	<i>5.000</i>		<i>100</i>	<i>40-140</i>			
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**LCS Dup**

Decane (C10)	2.0	0.2	mg/kg wet	2.500		82	40-140	6	25	
Docosane (C22)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		87	40-140	5	25	
Eicosane (C20)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		94	40-140	3	25	
Hexatriacontane (C36)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		100	40-140	4	25	
Nonane (C9)	1.8	0.2	mg/kg wet	2.500		74	30-140	6	25	
Octacosane (C28)	2.6	0.2	mg/kg wet	2.500		103	40-140	4	25	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		96	40-140	3	25	
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	25	
Tetradecane (C14)	2.2	0.2	mg/kg wet	2.500		89	40-140	4	25	
Total Petroleum Hydrocarbons	33.2	10.0	mg/kg wet	35.00		95	40-140	4	25	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	25	

<i>Surrogate: O-Terphenyl</i>	<i>5.07</i>		mg/kg wet	<i>5.000</i>		<i>101</i>	<i>40-140</i>			
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**8270D Semi-Volatile Organic Compounds**

**Batch DC01609 - 3546**

**Blank**

1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.080	mg/kg wet							
1,4-Dichlorobenzene	ND	0.084	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.082	mg/kg wet							
2,4-Dichlorophenol	ND	0.083	mg/kg wet							
2,4-Dimethylphenol	ND	0.075	mg/kg wet							
2,4-Dinitrophenol	ND	0.557	mg/kg wet							
2,4-Dinitrotoluene	ND	0.107	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.094	mg/kg wet							
2-Methylnaphthalene	ND	0.072	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.167	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

**Batch DC01609 - 3546**

4-Chloroaniline	ND	0.167	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.167	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.090	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.089	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.051	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.056	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.084	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.667	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.081	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Pyridine	ND	1.67	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.46		mg/kg wet	3.333		74	30-130			
Surrogate: 2,4,6-Tribromophenol	4.47		mg/kg wet	5.000		89	30-130			
Surrogate: 2-Chlorophenol-d4	3.83		mg/kg wet	5.000		77	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: 2-Fluorophenol	3.66		mg/kg wet	5.000		73	30-130			
Surrogate: Nitrobenzene-d5	2.63		mg/kg wet	3.333		79	30-130			



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**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

**Batch DC01609 - 3546**

Surrogate: Phenol-d6	3.82		mg/kg wet	5.000		76	30-130			
Surrogate: p-Terphenyl-d14	3.49		mg/kg wet	3.333		105	30-130			

**LCS**

1,2,4-Trichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140			
1,2-Dichlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140			
1,3-Dichlorobenzene	2.39	0.080	mg/kg wet	3.333		72	40-140			
1,4-Dichlorobenzene	2.37	0.084	mg/kg wet	3.333		71	40-140			
2,4,5-Trichlorophenol	3.19	0.333	mg/kg wet	3.333		96	30-130			
2,4,6-Trichlorophenol	3.06	0.082	mg/kg wet	3.333		92	30-130			
2,4-Dichlorophenol	2.78	0.083	mg/kg wet	3.333		84	30-130			
2,4-Dimethylphenol	2.79	0.075	mg/kg wet	3.333		84	30-130			
2,4-Dinitrophenol	4.22	0.557	mg/kg wet	3.333		126	30-130			
2,4-Dinitrotoluene	3.59	0.107	mg/kg wet	3.333		108	40-140			
2,6-Dinitrotoluene	3.08	0.333	mg/kg wet	3.333		92	40-140			
2-Chloronaphthalene	2.53	0.333	mg/kg wet	3.333		76	40-140			
2-Chlorophenol	2.55	0.094	mg/kg wet	3.333		77	30-130			
2-Methylnaphthalene	2.52	0.072	mg/kg wet	3.333		76	40-140			
2-Methylphenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
2-Nitrophenol	2.67	0.333	mg/kg wet	3.333		80	30-130			
3,3'-Dichlorobenzidine	2.71	0.167	mg/kg wet	3.333		81	40-140			
3+4-Methylphenol	5.37	0.667	mg/kg wet	6.667		80	30-130			
4-Bromophenyl-phenylether	3.18	0.333	mg/kg wet	3.333		95	40-140			
4-Chloroaniline	1.46	0.167	mg/kg wet	3.333		44	40-140			
4-Nitrophenol	3.44	1.67	mg/kg wet	3.333		103	30-130			
Acenaphthene	2.70	0.333	mg/kg wet	3.333		81	40-140			
Acenaphthylene	2.48	0.167	mg/kg wet	3.333		75	40-140			
Acetophenone	2.41	0.667	mg/kg wet	3.333		72	40-140			
Aniline	1.74	1.67	mg/kg wet	3.333		52	40-140			
Anthracene	3.17	0.333	mg/kg wet	3.333		95	40-140			
Azobenzene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Benzo(a)anthracene	3.35	0.333	mg/kg wet	3.333		100	40-140			
Benzo(a)pyrene	3.58	0.167	mg/kg wet	3.333		107	40-140			
Benzo(b)fluoranthene	3.89	0.333	mg/kg wet	3.333		117	40-140			
Benzo(g,h,i)perylene	3.45	0.333	mg/kg wet	3.333		104	40-140			
Benzo(k)fluoranthene	2.94	0.333	mg/kg wet	3.333		88	40-140			
bis(2-Chloroethoxy)methane	2.57	0.333	mg/kg wet	3.333		77	40-140			
bis(2-Chloroethyl)ether	2.55	0.090	mg/kg wet	3.333		77	40-140			
bis(2-chloroisopropyl)Ether	2.47	0.089	mg/kg wet	3.333		74	40-140			
bis(2-Ethylhexyl)phthalate	3.62	0.333	mg/kg wet	3.333		109	40-140			
Butylbenzylphthalate	3.60	0.333	mg/kg wet	3.333		108	40-140			
Chrysene	3.32	0.167	mg/kg wet	3.333		100	40-140			
Dibenzo(a,h)Anthracene	3.70	0.051	mg/kg wet	3.333		111	40-140			
Dibenzofuran	2.77	0.333	mg/kg wet	3.333		83	40-140			
Diethylphthalate	3.18	0.333	mg/kg wet	3.333		95	40-140			



*CERTIFICATE OF ANALYSIS*

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ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

**Batch DC01609 - 3546**

Dimethylphthalate	3.05	0.333	mg/kg wet	3.333		91	40-140			
Di-n-butylphthalate	3.41	0.333	mg/kg wet	3.333		102	40-140			
Di-n-octylphthalate	3.48	0.333	mg/kg wet	3.333		104	40-140			
Fluoranthene	3.30	0.333	mg/kg wet	3.333		99	40-140			
Fluorene	3.09	0.333	mg/kg wet	3.333		93	40-140			
Hexachlorobenzene	3.15	0.056	mg/kg wet	3.333		95	40-140			
Hexachlorobutadiene	2.62	0.333	mg/kg wet	3.333		79	40-140			
Hexachloroethane	2.41	0.084	mg/kg wet	3.333		72	40-140			
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140			
Isophorone	2.25	0.333	mg/kg wet	3.333		67	40-140			
Naphthalene	2.47	0.333	mg/kg wet	3.333		74	40-140			
Nitrobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140			
N-Nitrosodimethylamine	2.22	0.333	mg/kg wet	3.333		67	40-140			
Pentachlorophenol	3.76	0.667	mg/kg wet	3.333		113	30-130			
Phenanthrene	3.09	0.333	mg/kg wet	3.333		93	40-140			
Phenol	2.76	0.081	mg/kg wet	3.333		83	30-130			
Pyrene	3.29	0.333	mg/kg wet	3.333		99	40-140			
Pyridine	1.94	1.67	mg/kg wet	3.333		58	40-140			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>2.49</i>		mg/kg wet	<i>3.333</i>		<i>75</i>	<i>30-130</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>5.39</i>		mg/kg wet	<i>5.000</i>		<i>108</i>	<i>30-130</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>3.94</i>		mg/kg wet	<i>5.000</i>		<i>79</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2.67</i>		mg/kg wet	<i>3.333</i>		<i>80</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>3.78</i>		mg/kg wet	<i>5.000</i>		<i>76</i>	<i>30-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2.71</i>		mg/kg wet	<i>3.333</i>		<i>81</i>	<i>30-130</i>			
<i>Surrogate: Phenol-d6</i>	<i>3.98</i>		mg/kg wet	<i>5.000</i>		<i>80</i>	<i>30-130</i>			
<i>Surrogate: p-Terphenyl-d14</i>	<i>3.51</i>		mg/kg wet	<i>3.333</i>		<i>105</i>	<i>30-130</i>			

**LCS Dup**

1,2,4-Trichlorobenzene	2.26	0.333	mg/kg wet	3.333		68	40-140	9	30	
1,2-Dichlorobenzene	2.14	0.333	mg/kg wet	3.333		64	40-140	11	30	
1,3-Dichlorobenzene	2.12	0.080	mg/kg wet	3.333		64	40-140	12	30	
1,4-Dichlorobenzene	2.12	0.084	mg/kg wet	3.333		64	40-140	11	30	
2,4,5-Trichlorophenol	3.11	0.333	mg/kg wet	3.333		93	30-130	2	30	
2,4,6-Trichlorophenol	3.00	0.082	mg/kg wet	3.333		90	30-130	2	30	
2,4-Dichlorophenol	2.67	0.083	mg/kg wet	3.333		80	30-130	4	30	
2,4-Dimethylphenol	2.69	0.075	mg/kg wet	3.333		81	30-130	4	30	
2,4-Dinitrophenol	4.14	0.557	mg/kg wet	3.333		124	30-130	2	30	
2,4-Dinitrotoluene	3.52	0.107	mg/kg wet	3.333		106	40-140	2	30	
2,6-Dinitrotoluene	3.06	0.333	mg/kg wet	3.333		92	40-140	0.6	30	
2-Chloronaphthalene	2.46	0.333	mg/kg wet	3.333		74	40-140	3	30	
2-Chlorophenol	2.33	0.094	mg/kg wet	3.333		70	30-130	9	30	
2-Methylnaphthalene	2.42	0.072	mg/kg wet	3.333		73	40-140	4	30	
2-Methylphenol	2.41	0.333	mg/kg wet	3.333		72	30-130	7	30	
2-Nitrophenol	2.49	0.333	mg/kg wet	3.333		75	30-130	7	30	
3,3'-Dichlorobenzidine	2.83	0.167	mg/kg wet	3.333		85	40-140	4	30	
3+4-Methylphenol	5.18	0.667	mg/kg wet	6.667		78	30-130	4	30	





CERTIFICATE OF ANALYSIS

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**Quality Control Data**

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8270D Semi-Volatile Organic Compounds

**Batch DC01609 - 3546**

4-Bromophenyl-phenylether	3.13	0.333	mg/kg wet	3.333		94	40-140	2	30	
4-Chloroaniline	1.61	0.167	mg/kg wet	3.333		48	40-140	10	30	
4-Nitrophenol	3.37	1.67	mg/kg wet	3.333		101	30-130	2	30	
Acenaphthene	2.66	0.333	mg/kg wet	3.333		80	40-140	1	30	
Acenaphthylene	2.43	0.167	mg/kg wet	3.333		73	40-140	2	30	
Acetophenone	2.26	0.667	mg/kg wet	3.333		68	40-140	6	30	
Aniline	1.68	1.67	mg/kg wet	3.333		50	40-140	4	30	
Anthracene	3.12	0.333	mg/kg wet	3.333		94	40-140	2	30	
Azobenzene	2.98	0.333	mg/kg wet	3.333		89	40-140	2	30	
Benzo(a)anthracene	3.25	0.333	mg/kg wet	3.333		97	40-140	3	30	
Benzo(a)pyrene	3.55	0.167	mg/kg wet	3.333		106	40-140	1	30	
Benzo(b)fluoranthene	3.44	0.333	mg/kg wet	3.333		103	40-140	12	30	
Benzo(g,h,i)perylene	3.40	0.333	mg/kg wet	3.333		102	40-140	2	30	
Benzo(k)fluoranthene	3.34	0.333	mg/kg wet	3.333		100	40-140	13	30	
bis(2-Chloroethoxy)methane	2.44	0.333	mg/kg wet	3.333		73	40-140	5	30	
bis(2-Chloroethyl)ether	2.29	0.090	mg/kg wet	3.333		69	40-140	11	30	
bis(2-chloroisopropyl)Ether	2.23	0.089	mg/kg wet	3.333		67	40-140	10	30	
bis(2-Ethylhexyl)phthalate	3.56	0.333	mg/kg wet	3.333		107	40-140	2	30	
Butylbenzylphthalate	3.51	0.333	mg/kg wet	3.333		105	40-140	3	30	
Chrysene	3.23	0.167	mg/kg wet	3.333		97	40-140	3	30	
Dibenzo(a,h)Anthracene	3.63	0.051	mg/kg wet	3.333		109	40-140	2	30	
Dibenzofuran	2.74	0.333	mg/kg wet	3.333		82	40-140	1	30	
Diethylphthalate	3.16	0.333	mg/kg wet	3.333		95	40-140	0.6	30	
Dimethylphthalate	3.02	0.333	mg/kg wet	3.333		91	40-140	0.9	30	
Di-n-butylphthalate	3.35	0.333	mg/kg wet	3.333		101	40-140	2	30	
Di-n-octylphthalate	3.50	0.333	mg/kg wet	3.333		105	40-140	0.6	30	
Fluoranthene	3.20	0.333	mg/kg wet	3.333		96	40-140	3	30	
Fluorene	3.06	0.333	mg/kg wet	3.333		92	40-140	0.9	30	
Hexachlorobenzene	3.11	0.056	mg/kg wet	3.333		93	40-140	1	30	
Hexachlorobutadiene	2.36	0.333	mg/kg wet	3.333		71	40-140	11	30	
Hexachloroethane	2.14	0.084	mg/kg wet	3.333		64	40-140	12	30	
Indeno(1,2,3-cd)Pyrene	3.56	0.333	mg/kg wet	3.333		107	40-140	1	30	
Isophorone	2.16	0.333	mg/kg wet	3.333		65	40-140	4	30	
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140	7	30	
Nitrobenzene	2.33	0.333	mg/kg wet	3.333		70	40-140	8	30	
N-Nitrosodimethylamine	2.02	0.333	mg/kg wet	3.333		61	40-140	9	30	
Pentachlorophenol	3.67	0.667	mg/kg wet	3.333		110	30-130	2	30	
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140	2	30	
Phenol	2.55	0.081	mg/kg wet	3.333		77	30-130	8	30	
Pyrene	3.21	0.333	mg/kg wet	3.333		96	40-140	2	30	
Pyridine	1.65	1.67	mg/kg wet	3.333		49	40-140	16	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.22		mg/kg wet	3.333		67	30-130			
Surrogate: 2,4,6-Tribromophenol	5.31		mg/kg wet	5.000		106	30-130			
Surrogate: 2-Chlorophenol-d4	3.61		mg/kg wet	5.000		72	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/kg wet	3.333		79	30-130			



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

**Batch DC01609 - 3546**

Surrogate: 2-Fluorophenol	3.44		mg/kg wet	5.000		69	30-130			
Surrogate: Nitrobenzene-d5	2.50		mg/kg wet	3.333		75	30-130			
Surrogate: Phenol-d6	3.71		mg/kg wet	5.000		74	30-130			
Surrogate: p-Terphenyl-d14	3.46		mg/kg wet	3.333		104	30-130			

Classical Chemistry

**Batch DC01613 - General Preparation**

**Blank**

Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							

**LCS**

Reactive Cyanide	3.8	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	ND	2.0	mg/kg	10.00		0	0-44			

**Batch DC01620 - General Preparation**

**Reference**

Flashpoint	81		°F	81.00		100	97.9-102.1			
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*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**Notes and Definitions**

- Z18 Temperature is not within 23 +/-2 °C.
- Z-10a Soil pH measured in water at 19.6 °C.
- Z-10 Soil pH measured in water at 19.3 °C.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- EL Elevated Method Reporting Limits due to sample matrix (EL).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



*CERTIFICATE OF ANALYSIS*

Client Name: GEI Consultants, Inc.  
Client Project ID: Tombarello Site Investigation

ESS Laboratory Work Order: 20C0466

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

[http://www.ct.gov/dph/lib/dph/environmental\\_health/environmental\\_laboratories/pdf/OutOfStateCommercialLaboratories.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf)

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

[http://datamine2.state.nj.us/DEP\\_OPRA/OpraMain/pi\\_main?mode=pi\\_by\\_site&sort\\_order=PI\\_NAMEA&Select+a+Site:=58715](http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715)

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

## ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Shipped/Delivered Via: ESS Courier

Date Received: 3/13/2020

Project Due Date: 3/20/2020

Days for Project: 5 Day

- 1. Air bill manifest present?  No  
Air No.: NA
- 2. Were custody seals present?  No
- 3. Is radiation count <100 CPM?  Yes
- 4. Is a Cooler Present?  Yes  
Temp: 3.6 Iced with: Ice
- 5. Was COC signed and dated by client?  Yes

- 6. Does COC match bottles?  No
- 7. Is COC complete and correct?  Yes
- 8. Were samples received intact?  Yes
- 9. Were labs informed about short holds & rushes?  Yes /  No /  NA
- 10. Were any analyses received outside of hold time? Yes  No

11. Any Subcontracting needed? Yes  / No   
 ESS Sample IDs: \_\_\_\_\_  
 Analysis: \_\_\_\_\_  
 TAT: \_\_\_\_\_

12. Were VOAs received? Yes  / No   
 a. Air bubbles in aqueous VOAs? Yes  / No   
 b. Does methanol cover soil completely? Yes  / No  / NA

13. Are the samples properly preserved? Yes  / No   
 a. If metals preserved upon receipt: Date: \_\_\_\_\_ Time: \_\_\_\_\_ By: \_\_\_\_\_  
 b. Low Level VOA vials frozen: Date: 3/13/20 Time: 7029 By: NA

Sample Receiving Notes:

**Lot1-DISP02-grab collection time coc=0850, Label=1130; Lot1-DISP02-Comp collection time coc=1130, label=0850**

14. Was there a need to contact Project Manager? Yes  / No   
 a. Was there a need to contact the client? Yes  / No   
 Who was contacted? \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ By: \_\_\_\_\_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	23707	Yes	N/A	Yes	VOA Vial	MeOH	
1	23709	Yes	N/A	Yes	VOA Vial	DI Water	
1	23710	Yes	N/A	Yes	VOA Vial	DI Water	
1	23713	Yes	N/A	Yes	8 oz jar	NP	
1	23714	Yes	N/A	Yes	8 oz jar	NP	
2	23708	Yes	N/A	Yes	VOA Vial	MeOH	
2	23711	Yes	N/A	Yes	VOA Vial	DI Water	
2	23712	Yes	N/A	Yes	VOA Vial	DI Water	
3	23717	Yes	N/A	Yes	8 oz jar	NP	
3	23718	Yes	N/A	Yes	8 oz jar	NP	

**2nd Review**

Were all containers scanned into storage/lab?

- Are barcode labels on correct containers?
- Are all Flashpoint stickers attached/container ID # circled?
- Are all Hex Chrome stickers attached?
- Are all QC stickers attached?
- Are VOA stickers attached if bubbles noted?

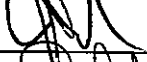
Initials GA  
 Yes / No  / NA   
 Yes / No / NA  / NA   
 Yes / No / NA  / NA   
 Yes / No / NA  / NA   
 Yes / No / NA  / NA


# ESS Laboratory Sample and Cooler Receipt Checklist


Client: GEI Consultants, Inc. - TB

ESS Project ID: 20C0466

Date Received: 3/13/2020

Completed By:  Date & Time: 3/13/20 2020

Reviewed By:  Date & Time: 3/13/20 2020

Delivered By:  Date & Time: 3/13/20 2020

# Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # 20C0466  
(Lab use only)



400 Unicorn Park Drive  
Woburn, MA 01801  
PH: 781.721.4000  
FX: 781.721.4073

## Project Information

Project Name: Former Tombarello

Project Location: Lawrence MA

Project Number: 1802441

Project Manager: L. Lombardo  
339.221.3551

Send Report to: Elise Farrington

Send EDD to: labdata@geiconsultants.com

### Preservative

MeOH  DI H2O  None  None

### Analysis

VOC(High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals*, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) L Lombardo 3/24/2020
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Page 1 of 8

### Sample Handling

Samples Field Filtered  
YES NO  NA

Sampled Shipped With Ice  
 YES NO

**MCP PRESUMPTIVE CERTAINTY REQUIRED:** YES NO  
 If Yes, Are MCP Analytical Methods Required?  YES NO NA  
 If Yes, Are Drinking Water Samples Submitted? YES  NO NA  
 If Yes, Have You Met Minimum Field QC Requirements? YES NO  NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	VOC(High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals*, Ignitability, Corrosivity, RCN/S	PCBs*	TPH (8100M) L Lombardo 3/24/2020							Sample Specific Remarks	
		Date	Time																
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

**MCP Level Needed:** GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

**Turnaround Time (Business days):**  
 Normal \_\_\_ Other \_\_\_  
 10-Day \_\_\_ 7-Day \_\_\_  
 5-Day  3-Day \_\_\_

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Relinquished by: (signature) 1. <i>[Signature]</i>	Date: 3/13/20	Time: 1400	Received by: (signature) <i>[Signature]</i>
Relinquished by: (signature) 2. <i>[Signature]</i>	Date: 3/13/20	Time: 1904	Received by: (signature) 2. <i>[Signature]</i> 3/13/20
Relinquished by: (signature) 3.	Date:	Time:	Received by: (signature) 3.
Relinquished by: (signature) 4.	Date:	Time:	Received by: (signature) 4.

**Additional Requirements/Comments/Remarks:**  
 \* Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP.  
 \*\*Run TCLP if 20x Rule Exceeded



400 Unicorn Park Drive  
 Woburn, MA 01801  
 PH: 781.721.4000  
 FX: 781.721.4073

**Project Information**

Project Name: Former Tombarello Project Location: Lawrence MA

Project Number: 1802441 Project Manager: L. Lombardo  
 339.221.3551

Send Report to: Elise Farrington

Send EDD to: labdata@geiconsultants.com

Preservative							
MeOH	DI H2O	None	None				

**Analysis**

VOC (High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/S	PCBs*								
x	x	x	x								
x	x										
		x	x								

**Sample Handling**

Samples Field Filtered

YES NO **NA**

Sampled Shipped With Ice

**YES** NO

**MCP PRESUMPTIVE CERTAINTY REQUIRED:** **YES** NO

If Yes, Are MCP Analytical Methods Required? **YES** NO NA

If Yes, Are Drinking Water Samples Submitted? YES **NO** NA

If Yes, Have You Met Minimum Field QC Requirements? YES NO **NA**

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	VOC (High Level)	VOC (Low Level)	SVOCs, RCRA 8 Metals**, Ignitability, Corrosivity, RCN/S	PCBs*										Sample Specific Remarks	
		Date	Time																		
1	1802441-Lot1-DISP01	3/12/2020	8:40	SO	5	BRL	x	x	x	x											
2	1802441-Lot1-DISP02-Grab	3/12/2020	8:50	SO	3	BRL	x	x													
3	1802441-Lot1-DISP02-Comp	3/12/2020	11:30	SO	2	BRL			x	x											

**MCP Level Needed:** GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Turnaround Time (Business days):	
Normal _____	Other _____
10-Day _____	7-Day _____
5-Day <b>X</b>	3-Day _____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Relinquished by: (signature) 1. <i>[Signature]</i>	Date: 3/18/20	Time: 1400	Received by: (signature) <i>[Signature]</i>
Relinquished by: (signature) 2. <i>[Signature]</i>	Date: 3/12/20	Time: 1904	Received by: (signature) 2. <i>[Signature]</i> 3/13/20
Relinquished by: (signature) 3.	Date:	Time:	Received by: (signature) 3.
Relinquished by: (signature) 4.	Date:	Time:	Received by: (signature) 4.

**Additional Requirements/Comments/Remarks:**

\* Manual Soxhlet Extraction for PCBs. Analysis must be performed in accordance with GEI's Site Specific QAPP.

\*\*Run TCLP if 20x Rule Exceeded





## ANALYTICAL REPORT

Lab Number:	L1940717
Client:	Crede Associates, LLC 776 Main Street Westbrook, ME 04092
ATTN:	Sean Gannon
Phone:	(207) 828-1272
Project Name:	TOMBARELLO SITE
Project Number:	17001426
Report Date:	09/20/19

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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).

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



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
<del>L1940717-01</del>	<del>AS-5</del>	<del>SOLID</del>	<del>LAWRENCE, MA</del>	<del>09/03/19 11:05</del>	<del>09/06/19</del>
<del>L1940717-02</del>	<del>AS-6</del>	<del>SOLID</del>	<del>LAWRENCE, MA</del>	<del>09/03/19 11:15</del>	<del>09/06/19</del>
<del>L1940717-03</del>	<del>AS-7</del>	<del>SOLID</del>	<del>LAWRENCE, MA</del>	<del>09/03/19 11:20</del>	<del>09/06/19</del>
<del>L1940717-04</del>	<del>AS-8</del>	<del>SOLID</del>	<del>LAWRENCE, MA</del>	<del>09/03/19 11:25</del>	<del>09/06/19</del>
L1940717-05	AS-1	SOLID	LAWRENCE, MA	09/03/19 11:45	09/06/19
L1940717-06	AS-2	SOLID	LAWRENCE, MA	09/03/19 11:50	09/06/19
L1940717-07	AS-3	SOLID	LAWRENCE, MA	09/03/19 11:55	09/06/19
L1940717-08	AS-4	SOLID	LAWRENCE, MA	09/03/19 12:05	09/06/19
L1940717-09	AS-DUP-1	SOLID	LAWRENCE, MA	09/03/19 00:00	09/06/19
<del>L1940717-10</del>	<del>SB-4 (0-0.5)</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/04/19 08:30</del>	<del>09/06/19</del>
L1940717-11	SB-4 (1-2)	SOIL	LAWRENCE, MA	09/04/19 08:50	09/06/19
L1940717-12	SB-4 (2-3)	SOIL	LAWRENCE, MA	09/04/19 08:40	09/06/19
L1940717-13	SB-4 (3-5)	SOIL	LAWRENCE, MA	09/04/19 09:05	09/06/19
L1940717-14	SB-4 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 09:10	09/06/19
L1940717-15	SB-4 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 09:10	09/06/19
L1940717-16	SB-3 (0-0.5)	SOIL	LAWRENCE, MA	09/04/19 09:20	09/06/19
L1940717-17	SB-3 (1-2)	SOIL	LAWRENCE, MA	09/04/19 09:25	09/06/19
L1940717-18	SB-3 (2-3)	SOIL	LAWRENCE, MA	09/04/19 09:30	09/06/19
L1940717-19	SB-3 (3-5)	SOIL	LAWRENCE, MA	09/04/19 09:35	09/06/19
L1940717-20	SB-3 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 09:40	09/06/19
L1940717-21	SB-3 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 09:40	09/06/19
L1940717-22	SB-2 (0-0.5)	SOIL	LAWRENCE, MA	09/04/19 10:00	09/06/19
L1940717-23	SB-2 (1-2)	SOIL	LAWRENCE, MA	09/04/19 10:05	09/06/19
L1940717-24	SB-2 (2-3)	SOIL	LAWRENCE, MA	09/04/19 10:07	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-25	SB-2 (3-5)	SOIL	LAWRENCE, MA	09/04/19 10:15	09/06/19
L1940717-26	SB-2 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-27	SB-2 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 10:20	09/06/19
L1940717-28	E-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:00	09/06/19
L1940717-29	E-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:03	09/06/19
L1940717-30	E-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:06	09/06/19
L1940717-31	E-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:09	09/06/19
L1940717-32	E-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:25	09/06/19
L1940717-33	E-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:30	09/06/19
L1940717-34	E-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:35	09/06/19
L1940717-35	E-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 11:40	09/06/19
L1940717-36	D-08 (1-2)	SOIL	LAWRENCE, MA	09/04/19 11:53	09/06/19
L1940717-37	D-08 (2-3)	SOIL	LAWRENCE, MA	09/04/19 11:56	09/06/19
L1940717-38	D-08 (3-5)	SOIL	LAWRENCE, MA	09/04/19 11:59	09/06/19
L1940717-39	D-08 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:03	09/06/19
L1940717-40	D-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:12	09/06/19
L1940717-41	D-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:14	09/06/19
L1940717-42	D-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:20	09/06/19
L1940717-43	D-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:25	09/06/19
L1940717-44	D-07 (1-3)	SOIL	LAWRENCE, MA	09/04/19 12:16	09/06/19
L1940717-45	D-07 (7-9)	SOIL	LAWRENCE, MA	09/04/19 12:30	09/06/19
L1940717-46	D-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 12:50	09/06/19
L1940717-47	D-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 12:53	09/06/19
L1940717-48	D-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 12:56	09/06/19
L1940717-49	D-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 12:59	09/06/19
L1940717-50	SB-DUP-5	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-51	E-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 13:22	09/06/19
L1940717-52	E-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 13:26	09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-53	E-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 13:28	09/06/19
L1940717-54	E-06 (5-7)-1	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-55	E-06 (1-3)	SOIL	LAWRENCE, MA	09/04/19 13:24	09/06/19
L1940717-56	E-06 (5-7)-2	SOIL	LAWRENCE, MA	09/04/19 13:35	09/06/19
L1940717-57	E-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:10	09/06/19
L1940717-58	E-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:12	09/06/19
L1940717-59	E-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:14	09/06/19
L1940717-60	E-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:16	09/06/19
L1940717-61	SB-DUP-6	SOIL	LAWRENCE, MA	09/04/19 00:00	09/06/19
L1940717-62	D-05 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:30	09/06/19
L1940717-63	D-05 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:33	09/06/19
L1940717-64	D-05 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:36	09/06/19
L1940717-65	D-05 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:39	09/06/19
L1940717-66	D-09 (1-2)	SOIL	LAWRENCE, MA	09/04/19 14:50	09/06/19
L1940717-67	D-09 (2-3)	SOIL	LAWRENCE, MA	09/04/19 14:53	09/06/19
L1940717-68	D-09 (3-5)	SOIL	LAWRENCE, MA	09/04/19 14:56	09/06/19
L1940717-69	D-09 (5-7)	SOIL	LAWRENCE, MA	09/04/19 14:59	09/06/19
L1940717-70	B-06 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:15	09/06/19
L1940717-71	B-06 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:18	09/06/19
L1940717-72	B-06 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:21	09/06/19
L1940717-73	B-06 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:24	09/06/19
L1940717-74	B-07 (1-2)	SOIL	LAWRENCE, MA	09/04/19 15:27	09/06/19
L1940717-75	B-07 (2-3)	SOIL	LAWRENCE, MA	09/04/19 15:29	09/06/19
L1940717-76	B-07 (3-5)	SOIL	LAWRENCE, MA	09/04/19 15:31	09/06/19
L1940717-77	B-07 (5-7)	SOIL	LAWRENCE, MA	09/04/19 15:33	09/06/19
L1940717-78	C-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:25	09/06/19
L1940717-79	C-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:30	09/06/19
L1940717-80	C-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:35	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-81	C-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 08:40	09/06/19
L1940717-82	A-07 (1-2)	SOIL	LAWRENCE, MA	09/05/19 08:53	09/06/19
L1940717-83	A-07 (2-3)	SOIL	LAWRENCE, MA	09/05/19 08:56	09/06/19
L1940717-84	A-07 (3-5)	SOIL	LAWRENCE, MA	09/05/19 08:59	09/06/19
L1940717-85	A-07 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:02	09/06/19
L1940717-86	C-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:08	09/06/19
L1940717-87	C-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:11	09/06/19
L1940717-88	C-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:14	09/06/19
L1940717-89	C-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:17	09/06/19
L1940717-90	SB-DUP-4	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-91	B-08 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:28	09/06/19
L1940717-92	B-08 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:30	09/06/19
L1940717-93	B-08 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:32	09/06/19
L1940717-94	B-08 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:34	09/06/19
L1940717-95	C-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:40	09/06/19
L1940717-96	C-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:42	09/06/19
L1940717-97	C-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:44	09/06/19
L1940717-98	C-09 (5-7)	SOIL	LAWRENCE, MA	09/05/19 09:46	09/06/19
L1940717-99	B-09 (1-2)	SOIL	LAWRENCE, MA	09/05/19 09:53	09/06/19
L1940717-100	SB-DUP-3	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-101	B-09 (1-3)	SOIL	LAWRENCE, MA	09/05/19 09:54	09/06/19
L1940717-102	B-09 (2-3)	SOIL	LAWRENCE, MA	09/05/19 09:55	09/06/19
L1940717-103	B-09 (3-5)	SOIL	LAWRENCE, MA	09/05/19 09:57	09/06/19
L1940717-104	B-09 (5-7)-1	SOIL	LAWRENCE, MA	09/05/19 09:59	09/06/19
L1940717-105	B-09 (5-7)-2	SOIL	LAWRENCE, MA	09/05/19 10:02	09/06/19
L1940717-106	A-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:33	09/06/19
L1940717-107	A-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:36	09/06/19
L1940717-108	A-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 10:39	09/06/19



Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1940717-109	A-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 10:42	09/06/19
L1940717-110	SB-DUP-2	SOIL	LAWRENCE, MA	09/05/19 00:00	09/06/19
L1940717-111	B-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 10:48	09/06/19
L1940717-112	B-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 10:51	09/06/19
L1940717-113	B-05 (1-3)	SOIL	LAWRENCE, MA	09/05/19 10:54	09/06/19
L1940717-114	B-05 (3-5)-1	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-115	B-05 (3-5)-2	SOIL	LAWRENCE, MA	09/05/19 10:57	09/06/19
L1940717-116	B-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:00	09/06/19
L1940717-117	C-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:12	09/06/19
L1940717-118	C-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:15	09/06/19
L1940717-119	C-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:18	09/06/19
L1940717-120	C-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:21	09/06/19
L1940717-121	C-06 (1-2)	SOIL	LAWRENCE, MA	09/05/19 11:32	09/06/19
L1940717-122	C-06 (2-3)	SOIL	LAWRENCE, MA	09/05/19 11:34	09/06/19
L1940717-123	C-06 (3-5)	SOIL	LAWRENCE, MA	09/05/19 11:36	09/06/19
L1940717-124	C-06 (5-7)	SOIL	LAWRENCE, MA	09/05/19 11:38	09/06/19
L1940717-125	A-05 (1-2)	SOIL	LAWRENCE, MA	09/05/19 12:12	09/06/19
L1940717-126	A-05 (2-3)	SOIL	LAWRENCE, MA	09/05/19 12:14	09/06/19
L1940717-127	A-05 (3-5)	SOIL	LAWRENCE, MA	09/05/19 12:16	09/06/19
L1940717-128	A-05 (5-7)	SOIL	LAWRENCE, MA	09/05/19 12:18	09/06/19
L1940717-129	E-02 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:05	09/06/19
L1940717-130	E-02 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:08	09/06/19
L1940717-131	E-02 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:11	09/06/19
L1940717-132	E-02 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:14	09/06/19
L1940717-133	B-04 (1-2)	SOIL	LAWRENCE, MA	09/05/19 13:20	09/06/19
L1940717-134	B-04 (2-3)	SOIL	LAWRENCE, MA	09/05/19 13:23	09/06/19
L1940717-135	B-04 (3-5)	SOIL	LAWRENCE, MA	09/05/19 13:26	09/06/19
L1940717-136	B-04 (5-7)	SOIL	LAWRENCE, MA	09/05/19 13:29	09/06/19



<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
<del>L1940717-137</del>	<del>SB-1 (0-0.5)</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:33</del>	<del>09/06/19</del>
<del>L1940717-138</del>	<del>SB-1 (1-2)</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:36</del>	<del>09/06/19</del>
<del>L1940717-139</del>	<del>SB-1 (2-3)</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:39</del>	<del>09/06/19</del>
<del>L1940717-140</del>	<del>SB-DUP-1</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 00:00</del>	<del>09/06/19</del>
<del>L1940717-141</del>	<del>SB-1 (3-5)</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:42</del>	<del>09/06/19</del>
<del>L1940717-142</del>	<del>SB-1 (5-7)-1</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:45</del>	<del>09/06/19</del>
<del>L1940717-143</del>	<del>SB-1 (5-7)-2</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 13:48</del>	<del>09/06/19</del>
<del>L1940717-144</del>	<del>TRIP BLANK</del>	<del>SOIL</del>	<del>LAWRENCE, MA</del>	<del>09/05/19 00:00</del>	<del>09/06/19</del>

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### 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.**

<b>An affirmative response to questions A through F is required for "Presumptive Certainty" status</b>		
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?	NO
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).	YES
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
<b>A response to questions G, H and I is required for "Presumptive Certainty" status</b>		
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
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

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





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### 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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

**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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

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### Case Narrative (continued)

#### Report Submission

September 20, 2019: This final report includes the results of all requested analyses.

September 17, 2019: This is a preliminary report.

#### MCP Related Narratives

##### Sample Receipt

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, and -56: The water-preserved VOA vials for Volatile Organics Low-Level analysis were received at the laboratory beyond the 48 hour holding time required for freezing. The client was notified and the results of the analysis are reported.

##### Volatile Organics

L1940717-15, -27, -44, -138, and -143 were analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

In reference to question G:

L1940717-12, -50, and -113: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-23: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (33%) and the surrogate recovery for 1,2-dichloroethane-d4 (141%) were outside the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (34%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

The initial calibration, associated with L1940717-11, -12, -18, -27, -44, -45, -50, -55, -56, -101, -105, -

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113, -115, -138, -139, -140, and -143 did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0034), as well as the average response factor for 1,4-dioxane. The initial calibration, associated with L1940717-15, -17, -21, -23, and -24 did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0798) and 1,4-dioxane (0.0013), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane. In addition, the initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (175%). The continuing calibration standards, associated with L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

#### EPH

In reference to question G:

L1940717-17, -18, -21, -23, -27, -44, -50, -55, -56, -101, -105, -113, -138, -139, and -140: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-27, -44, and -56: The surrogate recoveries are below the acceptance criteria for chlorooctadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L1940717-50: The surrogate recovery is outside the acceptance criteria for o-terphenyl (250%); 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

L1940717-15: The sample has elevated detection limits due to limited sample volume available for analysis.

In reference to question G:

L1940717-16, -32, -40, -51, -57, -61, -66, -67, -86, -99, -100, -102, -105, -111, and -117: One or more

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### Case Narrative (continued)

of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1940717-02, -32, -40, -51, -57, -61, -66, -67, -86, -99, and -100: 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.

#### Total Metals

In reference to question H:

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for barium (65%/61%) and zinc (MSD 144%). Re-analysis of the MS yielded unacceptable recoveries for barium and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken.

The WG1284380-4/-5 MS/MSD recoveries, performed on L1940717-23, are outside the acceptance criteria for chromium (MSD 0%) and lead (0%/0%). Re-analysis of the MS yielded unacceptable recoveries for chromium and lead of <30%. The MS % recoveries are <30%, but the sample detections are above the RL. The LCS recoveries are acceptable; therefore, no further action was taken. The MS/MSD RPD for chromium (42%) is above the acceptance criteria.

The WG1284380-7/-8 MS/MSD recoveries, performed on L1940717-113, are outside the acceptance criteria for chromium (MS 70%), lead (46%/140%), and zinc (818%/64%). Re-analysis of the MS yielded unacceptable recoveries for chromium, lead, and zinc in the range of 30-74% or >125%. The LCS recoveries were within acceptance criteria for these analytes; therefore, no further action was taken. The MS/MSD RPD for zinc (77%) is above the acceptance criteria.

The WG1284469-5 MSD recovery, performed on L1940717-139, is outside the acceptance criteria for mercury (141%). Re-analysis of the MSD yielded an unacceptable recovery for mercury in the range of 30-74% or >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

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The WG1284649-4/-5 MS/MSD recoveries, performed on L1940717-139, are outside the acceptance criteria for arsenic (149%/149%). Re-analysis of the MS yielded an unacceptable recovery for arsenic in the range of >125%. The LCS recovery was within acceptance criteria for this analyte; therefore, no further action was taken.

The WG1284380-6 serial dilution analysis, associated with L1940717-23, had a %D above the acceptance criteria for barium (22%), lead (30%), and zinc (28%).

The WG1284380-9 serial dilution analysis, associated with L1940717-113, had a %D above the acceptance criteria for lead (26%) and zinc (28%).

In reference to question I:

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

Chromium, Hexavalent

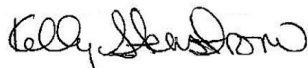
LCS/LCSD SRM Lot#: ERA D101-192

In reference to question A:

L1940717-11, -12, -15, -17, -18, -21, -23, -24, -27, -44, -45, -50, -55, -56, -101, -105, -113, -115, -138, -139, -140, and -143: The analyses of pH and ORP were performed beyond the required 24hr holding time specified per the Sample Collection, Preservation, and Handling Procedures for Hexavalent Chromium (Cr(VI)) by WSC-CAM-VI B.

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: 09/20/19

## QC OUTLIER SUMMARY REPORT

**Project Name:** TOMBARELLO SITE

**Lab Number:** L1940717

**Project Number:** 17001426

**Report Date:** 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260C	Batch QC	WG1284521-3	Dichlorodifluoromethane	LCS	141	70-130	15	potential high bias
8260C	Batch QC	WG1284521-4	Dichlorodifluoromethane	LCSD	137	70-130	15	potential high bias
8260C	Batch QC	WG1284780-4	Acetone	LCSD	134	70-130	44	potential high bias
8260C	Batch QC	WG1284929-3	Chloromethane	LCS	137	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-3	Acetone	LCS	133	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Chloromethane	LCSD	138	70-130	138,143	potential high bias
8260C	Batch QC	WG1284929-4	Acetone	LCSD	137	70-130	138,143	potential high bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260C	SB-2 (1-2)	L1940717-23	1,2-Dichloroethane-d4	Surrogate	141	70-130	-	potential high bias
8260C	Batch QC	WG1284397-3	Trichlorofluoromethane	LCS	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	1,2-Dichloroethane	LCS	135	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Chloromethane	LCS	133	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-3	Dichlorodifluoromethane	LCS	152	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	1,2-Dichloroethane	LCSD	132	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Chloromethane	LCSD	131	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284397-4	Dichlorodifluoromethane	LCSD	148	70-130	15,17,23	potential high bias
8260C	Batch QC	WG1284519-3	Dichlorodifluoromethane	LCS	141	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284519-4	Dichlorodifluoromethane	LCSD	137	70-130	21,23-24	potential high bias
8260C	Batch QC	WG1284781-4	Acetone	LCSD	134	70-130	18,105,140	potential high bias
Extractable Petroleum Hydrocarbons - Westborough Lab								
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-2 (5-7)-2	L1940717-27 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	D-07 (1-3)	L1940717-44 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	SB-DUP-5	L1940717-50 D	o-Terphenyl	Surrogate	250	40-140	-	potential high bias
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	Chloro-Octadecane	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	E-06 (5-7)-2	L1940717-56 D	o-Terphenyl	Surrogate	0	40-140	-	-- not applicable --
EPH-04-1.1	Batch QC	WG1283558-3	C9-C18 Aliphatics	LCSD	27	25	45,50,55-56,143	non-directional bias

## QC OUTLIER SUMMARY REPORT

**Project Name:** TOMBARELLO SITE

**Lab Number:** L1940717

**Project Number:** 17001426

**Report Date:** 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
EPH-04-1.1	Batch QC	WG1283558-3	Naphthalene	LCSD	29	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	2-Methylnaphthalene	LCSD	28	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthylene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Acenaphthene	LCSD	27	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Nonane (C9)	LCSD	33	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Decane (C10)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Dodecane (C12)	LCSD	31	25	45,50,55-56,143	non-directional bias
EPH-04-1.1	Batch QC	WG1283558-3	Tetradecane (C14)	LCSD	30	25	45,50,55-56,143	non-directional bias
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	AS-6	L1940717-02 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-3	L1940717-100 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (2-3)	L1940717-102 D	Decachlorobiphenyl (B)	Surrogate	181	30-150	-	potential high bias
8082A	B-09 (5-7)-2	L1940717-105 D	Decachlorobiphenyl (B)	Surrogate	167	30-150	-	potential high bias
8082A	A-05 (2-3)	L1940717-126	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	SB-4 (5-7)-2	L1940717-15	Decachlorobiphenyl (A)	Surrogate	27	30-150	-	potential low bias
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-08 (1-2)	L1940717-32 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --

## QC OUTLIER SUMMARY REPORT

**Project Name:** TOMBARELLO SITE

**Lab Number:** L1940717

**Project Number:** 17001426

**Report Date:** 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-07 (1-2)	L1940717-40 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (1-2)	L1940717-51 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-06 (2-3)	L1940717-52	Decachlorobiphenyl (B)	Surrogate	163	30-150	-	potential high bias
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	E-05 (1-2)	L1940717-57 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	SB-DUP-6	L1940717-61 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (1-2)	L1940717-66 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	D-09 (2-3)	L1940717-67 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	C-08 (1-2)	L1940717-86 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --



## QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8082A	C-08 (2-3)	L1940717-87	Decachlorobiphenyl (B)	Surrogate	153	30-150	-	potential high bias
8082A	SB-DUP-4	L1940717-90	Decachlorobiphenyl (B)	Surrogate	158	30-150	-	potential high bias
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	2,4,5,6-Tetrachloro-m-xylene (B)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (A)	Surrogate	0	30-150	-	-- not applicable --
8082A	B-09 (1-2)	L1940717-99 D	Decachlorobiphenyl (B)	Surrogate	0	30-150	-	-- not applicable --
MCP Total Metals - Mansfield Lab								
6010D	Batch QC (L1940717-23)	WG1284380-4	Barium, Total	MS	65	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-4	Lead, Total	MS	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Barium, Total	MSD	61	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias

## QC OUTLIER SUMMARY REPORT

**Project Name:** TOMBARELLO SITE

**Lab Number:** L1940717

**Project Number:** 17001426

**Report Date:** 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-23)	WG1284380-5	Chromium, Total	MSD	42	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Lead, Total	MSD	0	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-23)	WG1284380-5	Zinc, Total	MSD	144	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Barium, Total	SERDIL	22	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Lead, Total	SERDIL	30	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-23)	WG1284380-6	Zinc, Total	SERDIL	28	35	11-12,15,17-	non-directional bias

## QC OUTLIER SUMMARY REPORT

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-7	Chromium, Total	MS	70	75-125	18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Lead, Total	MS	46	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential low bias
6010D	Batch QC (L1940717-113)	WG1284380-7	Zinc, Total	MS	818	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Lead, Total	MSD	140	75-125	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	potential high bias
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	64	75-125	11-12,15,17-18,21,23-24,27,44-	potential low bias

### QC OUTLIER SUMMARY REPORT

**Project Name:** TOMBARELLO SITE

**Project Number:** 17001426

**Lab Number:** L1940717

**Report Date:** 09/20/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
6010D	Batch QC (L1940717-113)	WG1284380-8	Zinc, Total	MSD	77	35	45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Lead, Total	SERDIL	26	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-113)	WG1284380-9	Zinc, Total	SERDIL	28	35	11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140	non-directional bias
6010D	Batch QC (L1940717-139)	WG1284649-4	Arsenic, Total	MS	149	75-125	139,143	potential high bias
6010D	Batch QC (L1940717-139)	WG1284649-5	Arsenic, Total	MSD	149	75-125	139,143	potential high bias
7471B	Batch QC (L1940717-139)	WG1284469-5	Mercury, Total	MSD	141	75-125	139	potential high bias



# ORGANICS

**VOLATILES**

**NOT APPLICABLE**

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-11  
**Client ID:** SB-4 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:50  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 20:33  
**Analyst:** NLK  
**Percent Solids:** 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	ND		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	3.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	3.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	3.0	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	100		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	3.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	3.0	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	3.0	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-11  
**Client ID:** SB-4 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:50  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	1.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-12  
**Client ID:** SB-4 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 19:20  
**Analyst:** NLK  
**Percent Solids:** 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	260	--	1
1,1-Dichloroethane	ND		ug/kg	52	--	1
Chloroform	ND		ug/kg	78	--	1
Carbon tetrachloride	ND		ug/kg	52	--	1
1,2-Dichloropropane	ND		ug/kg	52	--	1
Dibromochloromethane	ND		ug/kg	52	--	1
1,1,2-Trichloroethane	ND		ug/kg	52	--	1
Tetrachloroethene	ND		ug/kg	26	--	1
Chlorobenzene	ND		ug/kg	26	--	1
Trichlorofluoromethane	ND		ug/kg	210	--	1
1,2-Dichloroethane	ND		ug/kg	52	--	1
1,1,1-Trichloroethane	ND		ug/kg	26	--	1
Bromodichloromethane	ND		ug/kg	26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	52	--	1
cis-1,3-Dichloropropene	ND		ug/kg	26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	26	--	1
1,1-Dichloropropene	ND		ug/kg	26	--	1
Bromoform	ND		ug/kg	210	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	26	--	1
Benzene	ND		ug/kg	26	--	1
Toluene	ND		ug/kg	52	--	1
Ethylbenzene	ND		ug/kg	52	--	1
Chloromethane	ND		ug/kg	210	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	52	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	52	--	1
trans-1,2-Dichloroethene	ND		ug/kg	78	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-12  
**Client ID:** SB-4 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	100		ug/kg	26	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	52	--	1
Xylenes, Total	ND		ug/kg	52	--	1
cis-1,2-Dichloroethene	ND		ug/kg	52	--	1
1,2-Dichloroethene, Total	ND		ug/kg	52	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	52	--	1
Dichlorodifluoromethane	ND		ug/kg	520	--	1
Acetone	ND		ug/kg	520	--	1
Carbon disulfide	ND		ug/kg	520	--	1
Methyl ethyl ketone	ND		ug/kg	520	--	1
Methyl isobutyl ketone	ND		ug/kg	520	--	1
2-Hexanone	ND		ug/kg	520	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	210	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	52	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	26	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	52	--	1
sec-Butylbenzene	ND		ug/kg	52	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	210	--	1
Isopropylbenzene	ND		ug/kg	52	--	1
p-Isopropyltoluene	ND		ug/kg	52	--	1
Naphthalene	ND		ug/kg	210	--	1
n-Propylbenzene	ND		ug/kg	52	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-12  
**Client ID:** SB-4 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
Diethyl ether	ND		ug/kg	100	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 13:27  
**Analyst:** KJD  
**Percent Solids:** 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.9	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	ND		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	5.0	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	0.62	--	1
Bromoform	ND		ug/kg	5.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	5.0	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	480	E	ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	5.0	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	5.0	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	5.0	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1
Diethyl ether	ND		ug/kg	2.5	--	1
Diisopropyl Ether	ND		ug/kg	2.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.5	--	1
1,4-Dioxane	ND		ug/kg	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 17:18  
**Analyst:** NLK  
**Percent Solids:** 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	610	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	ND		ug/kg	61	--	1
Chlorobenzene	ND		ug/kg	61	--	1
Trichlorofluoromethane	ND		ug/kg	490	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	61	--	1
Bromodichloromethane	ND		ug/kg	61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	61	--	1
1,1-Dichloropropene	ND		ug/kg	61	--	1
Bromoform	ND		ug/kg	490	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	61	--	1
Benzene	ND		ug/kg	61	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	490	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	61	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	490	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	61	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	490	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	490	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-17  
**Client ID:** SB-3 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 13:53  
**Analyst:** KJD  
**Percent Solids:** 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	ND		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-17  
**Client ID:** SB-3 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	1.5		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	1.4		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	1.4		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	140		ug/kg	7.4	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-17  
**Client ID:** SB-3 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	1.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-18  
**Client ID:** SB-3 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 09:45  
**Analyst:** JC  
**Percent Solids:** 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	0.8		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-18  
**Client ID:** SB-3 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	0.79		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	100		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-18  
**Client ID:** SB-3 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-21  
**Client ID:** SB-3 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 15:33  
**Analyst:** NLK  
**Percent Solids:** 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-21  
**Client ID:** SB-3 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	1.9		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	4.0		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	4.0		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	260		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-21  
**Client ID:** SB-3 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 15:11  
**Analyst:** KJD  
**Percent Solids:** 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.52	--	1
Chlorobenzene	ND		ug/kg	0.52	--	1
Trichlorofluoromethane	ND		ug/kg	4.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	--	1
Bromodichloromethane	ND		ug/kg	0.52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	--	1
1,1-Dichloropropene	ND		ug/kg	0.52	--	1
Bromoform	ND		ug/kg	4.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Benzene	ND		ug/kg	0.52	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.2	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.52	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.2	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.2	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.2	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	33	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	141	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	114		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23 R  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 15:59  
**Analyst:** NLK  
**Percent Solids:** 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.85	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.85	--	1
1,2-Dichloropropane	ND		ug/kg	0.85	--	1
Dibromochloromethane	ND		ug/kg	0.85	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	--	1
Tetrachloroethene	ND		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.85	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.85	--	1
Ethylbenzene	ND		ug/kg	0.85	--	1
Chloromethane	ND		ug/kg	3.4	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.85	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.85	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-23 R

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.85	--	1
Xylenes, Total	ND		ug/kg	0.85	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.85	--	1
Dichlorodifluoromethane	ND		ug/kg	8.5	--	1
Acetone	19		ug/kg	8.5	--	1
Carbon disulfide	ND		ug/kg	8.5	--	1
Methyl ethyl ketone	ND		ug/kg	8.5	--	1
Methyl isobutyl ketone	ND		ug/kg	8.5	--	1
2-Hexanone	ND		ug/kg	8.5	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.85	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.85	--	1
sec-Butylbenzene	ND		ug/kg	0.85	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.4	--	1
Isopropylbenzene	ND		ug/kg	0.85	--	1
p-Isopropyltoluene	ND		ug/kg	0.85	--	1
Naphthalene	24		ug/kg	3.4	--	1
n-Propylbenzene	ND		ug/kg	0.85	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23 R  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	1.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	110		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 15:07  
**Analyst:** NLK  
**Percent Solids:** 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	0.61		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	120		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	ND		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 16:15  
**Analyst:** JC  
**Percent Solids:** 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.6	--	1
1,1-Dichloroethane	ND		ug/kg	1.3	--	1
Chloroform	ND		ug/kg	2.0	--	1
Carbon tetrachloride	ND		ug/kg	1.3	--	1
1,2-Dichloropropane	ND		ug/kg	1.3	--	1
Dibromochloromethane	ND		ug/kg	1.3	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	--	1
Tetrachloroethene	ND		ug/kg	0.66	--	1
Chlorobenzene	ND		ug/kg	0.66	--	1
Trichlorofluoromethane	ND		ug/kg	5.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.3	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	--	1
Bromodichloromethane	ND		ug/kg	0.66	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	--	1
1,1-Dichloropropene	ND		ug/kg	0.66	--	1
Bromoform	ND		ug/kg	5.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Benzene	ND		ug/kg	0.66	--	1
Toluene	ND		ug/kg	1.3	--	1
Ethylbenzene	ND		ug/kg	1.3	--	1
Chloromethane	ND		ug/kg	5.3	--	1
Bromomethane	ND		ug/kg	2.6	--	1
Vinyl chloride	ND		ug/kg	1.3	--	1
Chloroethane	ND		ug/kg	2.6	--	1
1,1-Dichloroethene	ND		ug/kg	1.3	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	7.0		ug/kg	0.66	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	--	1
Methyl tert butyl ether	ND		ug/kg	2.6	--	1
p/m-Xylene	ND		ug/kg	2.6	--	1
o-Xylene	ND		ug/kg	1.3	--	1
Xylenes, Total	ND		ug/kg	1.3	--	1
cis-1,2-Dichloroethene	4.8		ug/kg	1.3	--	1
1,2-Dichloroethene, Total	4.8		ug/kg	1.3	--	1
Dibromomethane	ND		ug/kg	2.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	--	1
Styrene	ND		ug/kg	1.3	--	1
Dichlorodifluoromethane	ND		ug/kg	13	--	1
Acetone	440	E	ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	13	--	1
Methyl ethyl ketone	ND		ug/kg	13	--	1
Methyl isobutyl ketone	ND		ug/kg	13	--	1
2-Hexanone	ND		ug/kg	13	--	1
Bromochloromethane	ND		ug/kg	2.6	--	1
Tetrahydrofuran	ND		ug/kg	5.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.6	--	1
1,2-Dibromoethane	ND		ug/kg	1.3	--	1
1,3-Dichloropropane	ND		ug/kg	2.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	--	1
Bromobenzene	ND		ug/kg	2.6	--	1
n-Butylbenzene	ND		ug/kg	1.3	--	1
sec-Butylbenzene	ND		ug/kg	1.3	--	1
tert-Butylbenzene	ND		ug/kg	2.6	--	1
o-Chlorotoluene	ND		ug/kg	2.6	--	1
p-Chlorotoluene	ND		ug/kg	2.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	--	1
Hexachlorobutadiene	ND		ug/kg	5.3	--	1
Isopropylbenzene	ND		ug/kg	1.3	--	1
p-Isopropyltoluene	ND		ug/kg	1.3	--	1
Naphthalene	ND		ug/kg	5.3	--	1
n-Propylbenzene	ND		ug/kg	1.3	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	--	1
Diethyl ether	ND		ug/kg	2.6	--	1
Diisopropyl Ether	ND		ug/kg	2.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.6	--	1
1,4-Dioxane	ND		ug/kg	2.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/17/19 12:15  
**Analyst:** NLK  
**Percent Solids:** 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	520	--	1
1,1-Dichloroethane	ND		ug/kg	100	--	1
Chloroform	ND		ug/kg	150	--	1
Carbon tetrachloride	ND		ug/kg	100	--	1
1,2-Dichloropropane	ND		ug/kg	100	--	1
Dibromochloromethane	ND		ug/kg	100	--	1
1,1,2-Trichloroethane	ND		ug/kg	100	--	1
Tetrachloroethene	ND		ug/kg	52	--	1
Chlorobenzene	ND		ug/kg	52	--	1
Trichlorofluoromethane	ND		ug/kg	410	--	1
1,2-Dichloroethane	ND		ug/kg	100	--	1
1,1,1-Trichloroethane	ND		ug/kg	52	--	1
Bromodichloromethane	ND		ug/kg	52	--	1
trans-1,3-Dichloropropene	ND		ug/kg	100	--	1
cis-1,3-Dichloropropene	ND		ug/kg	52	--	1
1,3-Dichloropropene, Total	ND		ug/kg	52	--	1
1,1-Dichloropropene	ND		ug/kg	52	--	1
Bromoform	ND		ug/kg	410	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	52	--	1
Benzene	ND		ug/kg	52	--	1
Toluene	ND		ug/kg	100	--	1
Ethylbenzene	ND		ug/kg	100	--	1
Chloromethane	ND		ug/kg	410	--	1
Bromomethane	ND		ug/kg	210	--	1
Vinyl chloride	ND		ug/kg	100	--	1
Chloroethane	ND		ug/kg	210	--	1
1,1-Dichloroethene	ND		ug/kg	100	--	1
trans-1,2-Dichloroethene	ND		ug/kg	150	--	1



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-27  
 Client ID: SB-2 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	130		ug/kg	52	--	1
1,2-Dichlorobenzene	ND		ug/kg	210	--	1
1,3-Dichlorobenzene	ND		ug/kg	210	--	1
1,4-Dichlorobenzene	ND		ug/kg	210	--	1
Methyl tert butyl ether	ND		ug/kg	210	--	1
p/m-Xylene	ND		ug/kg	210	--	1
o-Xylene	ND		ug/kg	100	--	1
Xylenes, Total	ND		ug/kg	100	--	1
cis-1,2-Dichloroethene	130		ug/kg	100	--	1
1,2-Dichloroethene, Total	130		ug/kg	100	--	1
Dibromomethane	ND		ug/kg	210	--	1
1,2,3-Trichloropropane	ND		ug/kg	210	--	1
Styrene	ND		ug/kg	100	--	1
Dichlorodifluoromethane	ND		ug/kg	1000	--	1
Acetone	ND		ug/kg	1000	--	1
Carbon disulfide	ND		ug/kg	1000	--	1
Methyl ethyl ketone	ND		ug/kg	1000	--	1
Methyl isobutyl ketone	ND		ug/kg	1000	--	1
2-Hexanone	ND		ug/kg	1000	--	1
Bromochloromethane	ND		ug/kg	210	--	1
Tetrahydrofuran	ND		ug/kg	410	--	1
2,2-Dichloropropane	ND		ug/kg	210	--	1
1,2-Dibromoethane	ND		ug/kg	100	--	1
1,3-Dichloropropane	ND		ug/kg	210	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	52	--	1
Bromobenzene	ND		ug/kg	210	--	1
n-Butylbenzene	ND		ug/kg	100	--	1
sec-Butylbenzene	ND		ug/kg	100	--	1
tert-Butylbenzene	ND		ug/kg	210	--	1
o-Chlorotoluene	ND		ug/kg	210	--	1
p-Chlorotoluene	ND		ug/kg	210	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	--	1
Hexachlorobutadiene	ND		ug/kg	410	--	1
Isopropylbenzene	ND		ug/kg	100	--	1
p-Isopropyltoluene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	410	--	1
n-Propylbenzene	ND		ug/kg	100	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	210	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	210	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	210	--	1
Diethyl ether	ND		ug/kg	210	--	1
Diisopropyl Ether	ND		ug/kg	200	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	210	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	210	--	1
1,4-Dioxane	ND		ug/kg	200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 16:39  
**Analyst:** JC  
**Percent Solids:** 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	ND		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	350	E	ug/kg	8.8	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	13		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	1.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 09:21  
**Analyst:** JC  
**Percent Solids:** 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	ND		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	4400		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-45  
**Client ID:** D-07 (7-9)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/14/19 17:03  
**Analyst:** JC  
**Percent Solids:** 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.83	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.83	--	1
1,2-Dichloropropane	ND		ug/kg	0.83	--	1
Dibromochloromethane	ND		ug/kg	0.83	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	--	1
Tetrachloroethene	ND		ug/kg	0.42	--	1
Chlorobenzene	ND		ug/kg	0.42	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.83	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	--	1
Bromodichloromethane	ND		ug/kg	0.42	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	--	1
1,1-Dichloropropene	ND		ug/kg	0.42	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Benzene	ND		ug/kg	0.42	--	1
Toluene	ND		ug/kg	0.83	--	1
Ethylbenzene	ND		ug/kg	0.83	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.83	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.83	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-45  
**Client ID:** D-07 (7-9)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.42	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.83	--	1
Xylenes, Total	ND		ug/kg	0.83	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.83	--	1
Dichlorodifluoromethane	ND		ug/kg	8.3	--	1
Acetone	49		ug/kg	8.3	--	1
Carbon disulfide	ND		ug/kg	8.3	--	1
Methyl ethyl ketone	ND		ug/kg	8.3	--	1
Methyl isobutyl ketone	ND		ug/kg	8.3	--	1
2-Hexanone	ND		ug/kg	8.3	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.83	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.83	--	1
sec-Butylbenzene	ND		ug/kg	0.83	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.3	--	1
Isopropylbenzene	ND		ug/kg	0.83	--	1
p-Isopropyltoluene	ND		ug/kg	0.83	--	1
Naphthalene	ND		ug/kg	3.3	--	1
n-Propylbenzene	ND		ug/kg	0.83	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-45  
**Client ID:** D-07 (7-9)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-50  
**Client ID:** SB-DUP-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 19:44  
**Analyst:** NLK  
**Percent Solids:** 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	240	--	1
1,1-Dichloroethane	ND		ug/kg	49	--	1
Chloroform	ND		ug/kg	73	--	1
Carbon tetrachloride	ND		ug/kg	49	--	1
1,2-Dichloropropane	ND		ug/kg	49	--	1
Dibromochloromethane	ND		ug/kg	49	--	1
1,1,2-Trichloroethane	ND		ug/kg	49	--	1
Tetrachloroethene	ND		ug/kg	24	--	1
Chlorobenzene	ND		ug/kg	24	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	49	--	1
1,1,1-Trichloroethane	ND		ug/kg	24	--	1
Bromodichloromethane	ND		ug/kg	24	--	1
trans-1,3-Dichloropropene	ND		ug/kg	49	--	1
cis-1,3-Dichloropropene	ND		ug/kg	24	--	1
1,3-Dichloropropene, Total	ND		ug/kg	24	--	1
1,1-Dichloropropene	ND		ug/kg	24	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	24	--	1
Benzene	ND		ug/kg	24	--	1
Toluene	ND		ug/kg	49	--	1
Ethylbenzene	ND		ug/kg	49	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	98	--	1
Vinyl chloride	ND		ug/kg	49	--	1
Chloroethane	ND		ug/kg	98	--	1
1,1-Dichloroethene	ND		ug/kg	49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	73	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-50  
**Client ID:** SB-DUP-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	24	--	1
1,2-Dichlorobenzene	ND		ug/kg	98	--	1
1,3-Dichlorobenzene	ND		ug/kg	98	--	1
1,4-Dichlorobenzene	ND		ug/kg	98	--	1
Methyl tert butyl ether	ND		ug/kg	98	--	1
p/m-Xylene	ND		ug/kg	98	--	1
o-Xylene	ND		ug/kg	49	--	1
Xylenes, Total	ND		ug/kg	49	--	1
cis-1,2-Dichloroethene	ND		ug/kg	49	--	1
1,2-Dichloroethene, Total	ND		ug/kg	49	--	1
Dibromomethane	ND		ug/kg	98	--	1
1,2,3-Trichloropropane	ND		ug/kg	98	--	1
Styrene	ND		ug/kg	49	--	1
Dichlorodifluoromethane	ND		ug/kg	490	--	1
Acetone	ND		ug/kg	490	--	1
Carbon disulfide	ND		ug/kg	490	--	1
Methyl ethyl ketone	ND		ug/kg	490	--	1
Methyl isobutyl ketone	ND		ug/kg	490	--	1
2-Hexanone	ND		ug/kg	490	--	1
Bromochloromethane	ND		ug/kg	98	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	98	--	1
1,2-Dibromoethane	ND		ug/kg	49	--	1
1,3-Dichloropropane	ND		ug/kg	98	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	24	--	1
Bromobenzene	ND		ug/kg	98	--	1
n-Butylbenzene	ND		ug/kg	49	--	1
sec-Butylbenzene	ND		ug/kg	49	--	1
tert-Butylbenzene	ND		ug/kg	98	--	1
o-Chlorotoluene	ND		ug/kg	98	--	1
p-Chlorotoluene	ND		ug/kg	98	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	49	--	1
p-Isopropyltoluene	ND		ug/kg	49	--	1
Naphthalene	2500		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	49	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-50  
**Client ID:** SB-DUP-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	98	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	98	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	98	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	98	--	1
Diethyl ether	ND		ug/kg	98	--	1
Diisopropyl Ether	ND		ug/kg	98	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	98	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	98	--	1
1,4-Dioxane	ND		ug/kg	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-55  
**Client ID:** E-06 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:24  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 21:45  
**Analyst:** NLK  
**Percent Solids:** 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	1.9		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-55  
**Client ID:** E-06 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:24  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	1.8		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	1.2		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	1.2		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	270		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-55  
**Client ID:** E-06 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:24  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-56  
 Client ID: E-06 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 97,8260C  
 Analytical Date: 09/15/19 22:09  
 Analyst: NLK  
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	ND		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-56  
**Client ID:** E-06 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:35  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	ND		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	250		ug/kg	9.7	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
Methyl ethyl ketone	ND		ug/kg	9.7	--	1
Methyl isobutyl ketone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.97	--	1
sec-Butylbenzene	ND		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.97	--	1
p-Isopropyltoluene	ND		ug/kg	0.97	--	1
Naphthalene	13		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.97	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-56  
**Client ID:** E-06 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:35  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.7	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-101  
**Client ID:** B-09 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 01:46  
**Analyst:** NLK  
**Percent Solids:** 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.73	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.73	--	1
1,2-Dichloropropane	ND		ug/kg	0.73	--	1
Dibromochloromethane	ND		ug/kg	0.73	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.73	--	1
Tetrachloroethene	ND		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.73	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.73	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.73	--	1
Ethylbenzene	ND		ug/kg	0.73	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.73	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.73	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-101  
**Client ID:** B-09 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.73	--	1
Xylenes, Total	ND		ug/kg	0.73	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.73	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.73	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.73	--	1
Dichlorodifluoromethane	ND		ug/kg	7.3	--	1
Acetone	18		ug/kg	7.3	--	1
Carbon disulfide	ND		ug/kg	7.3	--	1
Methyl ethyl ketone	ND		ug/kg	7.3	--	1
Methyl isobutyl ketone	ND		ug/kg	7.3	--	1
2-Hexanone	ND		ug/kg	7.3	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.73	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.73	--	1
sec-Butylbenzene	ND		ug/kg	0.73	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.73	--	1
p-Isopropyltoluene	ND		ug/kg	0.73	--	1
Naphthalene	6.1		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.73	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-101  
**Client ID:** B-09 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-105  
**Client ID:** B-09 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:02  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 10:09  
**Analyst:** JC  
**Percent Solids:** 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.53	--	1
Chlorobenzene	ND		ug/kg	0.53	--	1
Trichlorofluoromethane	ND		ug/kg	4.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	--	1
Bromodichloromethane	ND		ug/kg	0.53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	--	1
1,1-Dichloropropene	ND		ug/kg	0.53	--	1
Bromoform	ND		ug/kg	4.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Benzene	ND		ug/kg	0.53	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.3	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-105  
**Client ID:** B-09 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:02  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.53	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	210		ug/kg	11	--	1
Carbon disulfide	ND		ug/kg	11	--	1
Methyl ethyl ketone	ND		ug/kg	11	--	1
Methyl isobutyl ketone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
Tetrahydrofuran	ND		ug/kg	4.3	--	1
2,2-Dichloropropane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Bromobenzene	ND		ug/kg	2.1	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.1	--	1
o-Chlorotoluene	ND		ug/kg	2.1	--	1
p-Chlorotoluene	ND		ug/kg	2.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Hexachlorobutadiene	ND		ug/kg	4.3	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.3	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-105  
**Client ID:** B-09 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:02  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	--	1
Diethyl ether	ND		ug/kg	2.1	--	1
Diisopropyl Ether	ND		ug/kg	2.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.1	--	1
1,4-Dioxane	ND		ug/kg	36	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-113  
**Client ID:** B-05 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 18:32  
**Analyst:** NLK  
**Percent Solids:** 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	340	--	1
1,1-Dichloroethane	ND		ug/kg	68	--	1
Chloroform	ND		ug/kg	100	--	1
Carbon tetrachloride	ND		ug/kg	68	--	1
1,2-Dichloropropane	ND		ug/kg	68	--	1
Dibromochloromethane	ND		ug/kg	68	--	1
1,1,2-Trichloroethane	ND		ug/kg	68	--	1
Tetrachloroethene	ND		ug/kg	34	--	1
Chlorobenzene	ND		ug/kg	34	--	1
Trichlorofluoromethane	ND		ug/kg	270	--	1
1,2-Dichloroethane	ND		ug/kg	68	--	1
1,1,1-Trichloroethane	ND		ug/kg	34	--	1
Bromodichloromethane	ND		ug/kg	34	--	1
trans-1,3-Dichloropropene	ND		ug/kg	68	--	1
cis-1,3-Dichloropropene	ND		ug/kg	34	--	1
1,3-Dichloropropene, Total	ND		ug/kg	34	--	1
1,1-Dichloropropene	ND		ug/kg	34	--	1
Bromoform	ND		ug/kg	270	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	--	1
Benzene	ND		ug/kg	34	--	1
Toluene	ND		ug/kg	68	--	1
Ethylbenzene	ND		ug/kg	68	--	1
Chloromethane	ND		ug/kg	270	--	1
Bromomethane	ND		ug/kg	140	--	1
Vinyl chloride	ND		ug/kg	68	--	1
Chloroethane	ND		ug/kg	140	--	1
1,1-Dichloroethene	ND		ug/kg	68	--	1
trans-1,2-Dichloroethene	ND		ug/kg	100	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-113  
**Client ID:** B-05 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	490		ug/kg	34	--	1
1,2-Dichlorobenzene	ND		ug/kg	140	--	1
1,3-Dichlorobenzene	ND		ug/kg	140	--	1
1,4-Dichlorobenzene	ND		ug/kg	140	--	1
Methyl tert butyl ether	ND		ug/kg	140	--	1
p/m-Xylene	ND		ug/kg	140	--	1
o-Xylene	ND		ug/kg	68	--	1
Xylenes, Total	ND		ug/kg	68	--	1
cis-1,2-Dichloroethene	ND		ug/kg	68	--	1
1,2-Dichloroethene, Total	ND		ug/kg	68	--	1
Dibromomethane	ND		ug/kg	140	--	1
1,2,3-Trichloropropane	ND		ug/kg	140	--	1
Styrene	ND		ug/kg	68	--	1
Dichlorodifluoromethane	ND		ug/kg	680	--	1
Acetone	ND		ug/kg	680	--	1
Carbon disulfide	ND		ug/kg	680	--	1
Methyl ethyl ketone	ND		ug/kg	680	--	1
Methyl isobutyl ketone	ND		ug/kg	680	--	1
2-Hexanone	ND		ug/kg	680	--	1
Bromochloromethane	ND		ug/kg	140	--	1
Tetrahydrofuran	ND		ug/kg	270	--	1
2,2-Dichloropropane	ND		ug/kg	140	--	1
1,2-Dibromoethane	ND		ug/kg	68	--	1
1,3-Dichloropropane	ND		ug/kg	140	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	--	1
Bromobenzene	ND		ug/kg	140	--	1
n-Butylbenzene	ND		ug/kg	68	--	1
sec-Butylbenzene	ND		ug/kg	68	--	1
tert-Butylbenzene	ND		ug/kg	140	--	1
o-Chlorotoluene	ND		ug/kg	140	--	1
p-Chlorotoluene	ND		ug/kg	140	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	270	--	1
Isopropylbenzene	ND		ug/kg	68	--	1
p-Isopropyltoluene	ND		ug/kg	68	--	1
Naphthalene	1000		ug/kg	270	--	1
n-Propylbenzene	ND		ug/kg	68	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-113  
**Client ID:** B-05 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	--	1
Diethyl ether	ND		ug/kg	140	--	1
Diisopropyl Ether	ND		ug/kg	140	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	140	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	140	--	1
1,4-Dioxane	ND		ug/kg	140	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	91		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-115  
**Client ID:** B-05 (3-5)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:57  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 22:57  
**Analyst:** NLK  
**Percent Solids:** 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	0.2		ug/kg	0.51	--	1
Chlorobenzene	ND		ug/kg	0.51	--	1
Trichlorofluoromethane	ND		ug/kg	4.1	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	--	1
Bromodichloromethane	ND		ug/kg	0.51	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	--	1
1,1-Dichloropropene	ND		ug/kg	0.51	--	1
Bromoform	ND		ug/kg	4.1	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Benzene	ND		ug/kg	0.51	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.1	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-115  
**Client ID:** B-05 (3-5)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:57  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	1.0	--	1
Xylenes, Total	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	120		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
Methyl ethyl ketone	ND		ug/kg	10	--	1
Methyl isobutyl ketone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	4.1	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	1.0	--	1
sec-Butylbenzene	ND		ug/kg	1.0	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	--	1
Hexachlorobutadiene	ND		ug/kg	4.1	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
p-Isopropyltoluene	ND		ug/kg	1.0	--	1
Naphthalene	ND		ug/kg	4.1	--	1
n-Propylbenzene	ND		ug/kg	1.0	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-115  
**Client ID:** B-05 (3-5)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:57  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
Diethyl ether	ND		ug/kg	2.0	--	1
Diisopropyl Ether	ND		ug/kg	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--	1
1,4-Dioxane	ND		ug/kg	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 20:57  
**Analyst:** NLK  
**Percent Solids:** 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.93	--	1
1,2-Dichloropropane	ND		ug/kg	0.93	--	1
Dibromochloromethane	ND		ug/kg	0.93	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	0.91		ug/kg	0.46	--	1
Chlorobenzene	ND		ug/kg	0.46	--	1
Trichlorofluoromethane	ND		ug/kg	3.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.93	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	--	1
Bromodichloromethane	ND		ug/kg	0.46	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	--	1
1,1-Dichloropropene	ND		ug/kg	0.46	--	1
Bromoform	ND		ug/kg	3.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Benzene	ND		ug/kg	0.46	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.93	--	1
Chloromethane	ND		ug/kg	3.7	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.93	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.93	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.46	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.93	--	1
Xylenes, Total	ND		ug/kg	0.93	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.93	--	1
Dichlorodifluoromethane	ND		ug/kg	9.3	--	1
Acetone	280	E	ug/kg	9.3	--	1
Carbon disulfide	ND		ug/kg	9.3	--	1
Methyl ethyl ketone	ND		ug/kg	9.3	--	1
Methyl isobutyl ketone	ND		ug/kg	9.3	--	1
2-Hexanone	ND		ug/kg	9.3	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.93	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.93	--	1
sec-Butylbenzene	ND		ug/kg	0.93	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.7	--	1
Isopropylbenzene	ND		ug/kg	0.93	--	1
p-Isopropyltoluene	ND		ug/kg	0.93	--	1
Naphthalene	ND		ug/kg	3.7	--	1
n-Propylbenzene	ND		ug/kg	0.93	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	100		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 20:46  
**Analyst:** MV  
**Percent Solids:** 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	270	--	1
1,1-Dichloroethane	ND		ug/kg	54	--	1
Chloroform	ND		ug/kg	81	--	1
Carbon tetrachloride	ND		ug/kg	54	--	1
1,2-Dichloropropane	ND		ug/kg	54	--	1
Dibromochloromethane	ND		ug/kg	54	--	1
1,1,2-Trichloroethane	ND		ug/kg	54	--	1
Tetrachloroethene	ND		ug/kg	27	--	1
Chlorobenzene	ND		ug/kg	27	--	1
Trichlorofluoromethane	ND		ug/kg	220	--	1
1,2-Dichloroethane	ND		ug/kg	54	--	1
1,1,1-Trichloroethane	ND		ug/kg	27	--	1
Bromodichloromethane	ND		ug/kg	27	--	1
trans-1,3-Dichloropropene	ND		ug/kg	54	--	1
cis-1,3-Dichloropropene	ND		ug/kg	27	--	1
1,3-Dichloropropene, Total	ND		ug/kg	27	--	1
1,1-Dichloropropene	ND		ug/kg	27	--	1
Bromoform	ND		ug/kg	220	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	--	1
Benzene	ND		ug/kg	27	--	1
Toluene	ND		ug/kg	54	--	1
Ethylbenzene	ND		ug/kg	54	--	1
Chloromethane	ND		ug/kg	220	--	1
Bromomethane	ND		ug/kg	110	--	1
Vinyl chloride	ND		ug/kg	54	--	1
Chloroethane	ND		ug/kg	110	--	1
1,1-Dichloroethene	ND		ug/kg	54	--	1
trans-1,2-Dichloroethene	ND		ug/kg	81	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	27	--	1
1,2-Dichlorobenzene	ND		ug/kg	110	--	1
1,3-Dichlorobenzene	ND		ug/kg	110	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
Methyl tert butyl ether	ND		ug/kg	110	--	1
p/m-Xylene	ND		ug/kg	110	--	1
o-Xylene	ND		ug/kg	54	--	1
Xylenes, Total	ND		ug/kg	54	--	1
cis-1,2-Dichloroethene	ND		ug/kg	54	--	1
1,2-Dichloroethene, Total	ND		ug/kg	54	--	1
Dibromomethane	ND		ug/kg	110	--	1
1,2,3-Trichloropropane	ND		ug/kg	110	--	1
Styrene	ND		ug/kg	54	--	1
Dichlorodifluoromethane	ND		ug/kg	540	--	1
Acetone	ND		ug/kg	540	--	1
Carbon disulfide	ND		ug/kg	540	--	1
Methyl ethyl ketone	ND		ug/kg	540	--	1
Methyl isobutyl ketone	ND		ug/kg	540	--	1
2-Hexanone	ND		ug/kg	540	--	1
Bromochloromethane	ND		ug/kg	110	--	1
Tetrahydrofuran	ND		ug/kg	220	--	1
2,2-Dichloropropane	ND		ug/kg	110	--	1
1,2-Dibromoethane	ND		ug/kg	54	--	1
1,3-Dichloropropane	ND		ug/kg	110	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	--	1
Bromobenzene	ND		ug/kg	110	--	1
n-Butylbenzene	ND		ug/kg	54	--	1
sec-Butylbenzene	ND		ug/kg	54	--	1
tert-Butylbenzene	ND		ug/kg	110	--	1
o-Chlorotoluene	ND		ug/kg	110	--	1
p-Chlorotoluene	ND		ug/kg	110	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	--	1
Hexachlorobutadiene	ND		ug/kg	220	--	1
Isopropylbenzene	ND		ug/kg	54	--	1
p-Isopropyltoluene	ND		ug/kg	54	--	1
Naphthalene	ND		ug/kg	220	--	1
n-Propylbenzene	ND		ug/kg	54	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	110	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	--	1
Diethyl ether	ND		ug/kg	110	--	1
Diisopropyl Ether	ND		ug/kg	110	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	--	1
1,4-Dioxane	ND		ug/kg	300	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-139  
**Client ID:** SB-1 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:39  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 21:21  
**Analyst:** NLK  
**Percent Solids:** 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.79	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.79	--	1
1,2-Dichloropropane	ND		ug/kg	0.79	--	1
Dibromochloromethane	ND		ug/kg	0.79	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.79	--	1
Tetrachloroethene	0.61		ug/kg	0.40	--	1
Chlorobenzene	ND		ug/kg	0.40	--	1
Trichlorofluoromethane	ND		ug/kg	3.2	--	1
1,2-Dichloroethane	ND		ug/kg	0.79	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	--	1
Bromodichloromethane	ND		ug/kg	0.40	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	--	1
1,1-Dichloropropene	ND		ug/kg	0.40	--	1
Bromoform	ND		ug/kg	3.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Benzene	ND		ug/kg	0.40	--	1
Toluene	ND		ug/kg	0.79	--	1
Ethylbenzene	ND		ug/kg	0.79	--	1
Chloromethane	ND		ug/kg	3.2	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.79	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.79	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-139  
**Client ID:** SB-1 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:39  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.40	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.79	--	1
Xylenes, Total	ND		ug/kg	0.79	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.79	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.79	--	1
Dichlorodifluoromethane	ND		ug/kg	7.9	--	1
Acetone	130		ug/kg	7.9	--	1
Carbon disulfide	ND		ug/kg	7.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.9	--	1
Methyl isobutyl ketone	ND		ug/kg	7.9	--	1
2-Hexanone	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.2	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.79	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.79	--	1
sec-Butylbenzene	ND		ug/kg	0.79	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	0.79	--	1
p-Isopropyltoluene	ND		ug/kg	0.79	--	1
Naphthalene	ND		ug/kg	3.2	--	1
n-Propylbenzene	ND		ug/kg	0.79	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-139  
**Client ID:** SB-1 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:39  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	1.6	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-140  
**Client ID:** SB-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 10:33  
**Analyst:** JC  
**Percent Solids:** 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	3.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.72	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	0.72	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	--	1
Tetrachloroethene	0.66		ug/kg	0.36	--	1
Chlorobenzene	ND		ug/kg	0.36	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	--	1
Bromodichloromethane	ND		ug/kg	0.36	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.36	--	1
1,1-Dichloropropene	ND		ug/kg	0.36	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Benzene	ND		ug/kg	0.36	--	1
Toluene	ND		ug/kg	0.72	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	0.72	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-140  
**Client ID:** SB-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.36	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	0.72	--	1
Xylenes, Total	ND		ug/kg	0.72	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	1.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	--	1
Styrene	ND		ug/kg	0.72	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	ND		ug/kg	7.2	--	1
Carbon disulfide	ND		ug/kg	7.2	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	1.4	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.4	--	1
1,2-Dibromoethane	ND		ug/kg	0.72	--	1
1,3-Dichloropropane	ND		ug/kg	1.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.36	--	1
Bromobenzene	ND		ug/kg	1.4	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	1.4	--	1
o-Chlorotoluene	ND		ug/kg	1.4	--	1
p-Chlorotoluene	ND		ug/kg	1.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-140  
**Client ID:** SB-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	--	1
Diethyl ether	ND		ug/kg	1.4	--	1
Diisopropyl Ether	ND		ug/kg	1.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	--	1
1,4-Dioxane	ND		ug/kg	1.4	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	97		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/15/19 22:33  
**Analyst:** NLK  
**Percent Solids:** 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	8.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.6	--	1
Chloroform	ND		ug/kg	2.4	--	1
Carbon tetrachloride	ND		ug/kg	1.6	--	1
1,2-Dichloropropane	ND		ug/kg	1.6	--	1
Dibromochloromethane	ND		ug/kg	1.6	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	--	1
Tetrachloroethene	ND		ug/kg	0.81	--	1
Chlorobenzene	ND		ug/kg	0.81	--	1
Trichlorofluoromethane	ND		ug/kg	6.5	--	1
1,2-Dichloroethane	ND		ug/kg	1.6	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	--	1
Bromodichloromethane	ND		ug/kg	0.81	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.81	--	1
1,1-Dichloropropene	ND		ug/kg	0.81	--	1
Bromoform	ND		ug/kg	6.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Benzene	ND		ug/kg	0.81	--	1
Toluene	ND		ug/kg	1.6	--	1
Ethylbenzene	ND		ug/kg	1.6	--	1
Chloromethane	ND		ug/kg	6.5	--	1
Bromomethane	ND		ug/kg	3.2	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	3.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.6	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.81	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	--	1
Methyl tert butyl ether	ND		ug/kg	3.2	--	1
p/m-Xylene	ND		ug/kg	3.2	--	1
o-Xylene	ND		ug/kg	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	--	1
Dibromomethane	ND		ug/kg	3.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.2	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	16	--	1
Acetone	560	E	ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	16	--	1
Methyl ethyl ketone	ND		ug/kg	16	--	1
Methyl isobutyl ketone	ND		ug/kg	16	--	1
2-Hexanone	ND		ug/kg	16	--	1
Bromochloromethane	ND		ug/kg	3.2	--	1
Tetrahydrofuran	ND		ug/kg	6.5	--	1
2,2-Dichloropropane	ND		ug/kg	3.2	--	1
1,2-Dibromoethane	ND		ug/kg	1.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	--	1
Bromobenzene	ND		ug/kg	3.2	--	1
n-Butylbenzene	ND		ug/kg	1.6	--	1
sec-Butylbenzene	ND		ug/kg	1.6	--	1
tert-Butylbenzene	ND		ug/kg	3.2	--	1
o-Chlorotoluene	ND		ug/kg	3.2	--	1
p-Chlorotoluene	ND		ug/kg	3.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	--	1
Hexachlorobutadiene	ND		ug/kg	6.5	--	1
Isopropylbenzene	ND		ug/kg	1.6	--	1
p-Isopropyltoluene	ND		ug/kg	1.6	--	1
Naphthalene	ND		ug/kg	6.5	--	1
n-Propylbenzene	ND		ug/kg	1.6	--	1

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	--	1
Diethyl ether	ND		ug/kg	3.2	--	1
Diisopropyl Ether	ND		ug/kg	3.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.2	--	1
1,4-Dioxane	ND		ug/kg	3.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8260C  
**Analytical Date:** 09/16/19 21:10  
**Analyst:** MV  
**Percent Solids:** 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	590	--	1
1,1-Dichloroethane	ND		ug/kg	120	--	1
Chloroform	ND		ug/kg	180	--	1
Carbon tetrachloride	ND		ug/kg	120	--	1
1,2-Dichloropropane	ND		ug/kg	120	--	1
Dibromochloromethane	ND		ug/kg	120	--	1
1,1,2-Trichloroethane	ND		ug/kg	120	--	1
Tetrachloroethene	ND		ug/kg	59	--	1
Chlorobenzene	ND		ug/kg	59	--	1
Trichlorofluoromethane	ND		ug/kg	470	--	1
1,2-Dichloroethane	ND		ug/kg	120	--	1
1,1,1-Trichloroethane	ND		ug/kg	59	--	1
Bromodichloromethane	ND		ug/kg	59	--	1
trans-1,3-Dichloropropene	ND		ug/kg	120	--	1
cis-1,3-Dichloropropene	ND		ug/kg	59	--	1
1,3-Dichloropropene, Total	ND		ug/kg	59	--	1
1,1-Dichloropropene	ND		ug/kg	59	--	1
Bromoform	ND		ug/kg	470	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	59	--	1
Benzene	ND		ug/kg	59	--	1
Toluene	ND		ug/kg	120	--	1
Ethylbenzene	ND		ug/kg	120	--	1
Chloromethane	ND		ug/kg	470	--	1
Bromomethane	ND		ug/kg	240	--	1
Vinyl chloride	ND		ug/kg	120	--	1
Chloroethane	ND		ug/kg	240	--	1
1,1-Dichloroethene	ND		ug/kg	120	--	1
trans-1,2-Dichloroethene	ND		ug/kg	180	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	59	--	1
1,2-Dichlorobenzene	ND		ug/kg	240	--	1
1,3-Dichlorobenzene	ND		ug/kg	240	--	1
1,4-Dichlorobenzene	ND		ug/kg	240	--	1
Methyl tert butyl ether	ND		ug/kg	240	--	1
p/m-Xylene	ND		ug/kg	240	--	1
o-Xylene	ND		ug/kg	120	--	1
Xylenes, Total	ND		ug/kg	120	--	1
cis-1,2-Dichloroethene	ND		ug/kg	120	--	1
1,2-Dichloroethene, Total	ND		ug/kg	120	--	1
Dibromomethane	ND		ug/kg	240	--	1
1,2,3-Trichloropropane	ND		ug/kg	240	--	1
Styrene	ND		ug/kg	120	--	1
Dichlorodifluoromethane	ND		ug/kg	1200	--	1
Acetone	ND		ug/kg	1200	--	1
Carbon disulfide	ND		ug/kg	1200	--	1
Methyl ethyl ketone	ND		ug/kg	1200	--	1
Methyl isobutyl ketone	ND		ug/kg	1200	--	1
2-Hexanone	ND		ug/kg	1200	--	1
Bromochloromethane	ND		ug/kg	240	--	1
Tetrahydrofuran	ND		ug/kg	470	--	1
2,2-Dichloropropane	ND		ug/kg	240	--	1
1,2-Dibromoethane	ND		ug/kg	120	--	1
1,3-Dichloropropane	ND		ug/kg	240	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	59	--	1
Bromobenzene	ND		ug/kg	240	--	1
n-Butylbenzene	ND		ug/kg	120	--	1
sec-Butylbenzene	ND		ug/kg	120	--	1
tert-Butylbenzene	ND		ug/kg	240	--	1
o-Chlorotoluene	ND		ug/kg	240	--	1
p-Chlorotoluene	ND		ug/kg	240	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	--	1
Hexachlorobutadiene	ND		ug/kg	470	--	1
Isopropylbenzene	ND		ug/kg	120	--	1
p-Isopropyltoluene	ND		ug/kg	120	--	1
Naphthalene	ND		ug/kg	470	--	1
n-Propylbenzene	ND		ug/kg	120	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	240	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	240	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	240	--	1
Diethyl ether	ND		ug/kg	240	--	1
Diisopropyl Ether	ND		ug/kg	240	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	240	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	240	--	1
1,4-Dioxane	ND		ug/kg	240	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:06  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:06  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:06  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,17,23 Batch: WG1284397-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	104		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromoethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,22,24 Batch: WG1284519-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
Methylene chloride	ND		ug/kg	50	--
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	--
Bromoforn	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
1,2-Dichlorobenzene	ND		ug/kg	50	--
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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 14:14  
Analyst: KJD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1284521-5					
p-Chlorotoluene	ND		ug/kg	50	--
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	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:00  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4045 Batch: WG1284565-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:00  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4145 Batch: WG1284565-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromodichloromethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/14/19 09:00  
Analyst: MKS

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 27,4145 Batch: WG1284565-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	91		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
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	--
Bromoethane	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12,5,113 Batch: WG1284596-5					
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	4000	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,56,101,115,138-139,143 Batch: WG1284598-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,56,101,115,138-139,143 Batch: WG1284598-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Bromoform	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/15/19 17:36  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11,55,56,101,115,138-139,143 Batch: WG1284598-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
Methylene chloride	ND		ug/kg	50	--
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	--
Bromoforn	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
1,2-Dichlorobenzene	ND		ug/kg	50	--
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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 44 Batch: WG1284780-5					
p-Chlorotoluene	ND		ug/kg	50	--
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	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,105,140 Batch: WG1284781-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloroethane	ND		ug/kg	2.0	--
Bromoethane	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 08:09  
Analyst: MV

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,103,140 Batch: WG1284781-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 20:21  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 20:21  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
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	--
Bromodichloromethane	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/16/19 20:21  
Analyst: AD

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 138-43 Batch: WG1284929-5					
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	4000	--

Substrate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	91		70-130

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/17/19 09:02  
Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
Methylene chloride	ND		ug/kg	50	--
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	--
Bromoforn	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/17/19 09:02  
Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
1,2-Dichlorobenzene	ND		ug/kg	50	--
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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 09/17/19 09:02  
Analyst: NLK

Parameter	Result	Qualifier	Units	L	MJL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27 Batch: WG1285102-5					
p-Chlorotoluene	ND		ug/kg	50	--
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	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	92		70-130



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	109		109		70-130	0		20
Chloroform	116		114		70-130	2		20
Carbon tetrachloride	127		123		70-130	3		20
1,2-Dichloropropane	108		107		70-130	1		20
Dibromochloromethane	106		105		70-130	1		20
1,1,2-Trichloroethane	98		98		70-130	2		20
Tetrachloroethene	101		100		70-130	1		20
Chlorobenzene	97		95		70-130	2		20
Trichlorofluoromethane	132	Q	127		70-130	4		20
1,2-Dichloroethane	135	Q	132	Q	70-130	2		20
1,1,1-Trichloroethane	121		118		70-130	3		20
Bromodichloromethane	113		114		70-130	1		20
trans-1,3-Dichloropropene	102		102		70-130	0		20
cis-1,3-Dichloropropene	106		106		70-130	0		20
1,1-Dichloropropene	105		105		70-130	0		20
Bromoform	101		103		70-130	2		20
1,1,2,2-Tetrachloroethane	89		87		70-130	2		20
Benzene			97		70-130	1		20
Toluene	96		94		70-130	2		20
Ethylbenzene	102		100		70-130	2		20
Chloromethane	133	Q	131	Q	70-130	2		20
Bromomethane	79		80		70-130	1		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Vinyl chloride	95		94		70-130	1		20
Chloroethane	83		82		70-130	1		20
1,1-Dichloroethene	87		86		70-130	1		20
trans-1,2-Dichloroethene	95		94		70-130	1		20
Trichloroethene	105		104		70-130	1		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		97		70-130	0		20
Methyl tert butyl ether	103		103		70-130	0		20
p/m-Xylene	100		98		70-130	2		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	102		99		70-130	3		20
Dibromomethane	114		115		70-130	1		20
1,2,3-Trichloropropane	97		96		70-130	1		20
Styrene	98		97		70-130	1		20
Dichlorodifluoromethane	152	Q	148	Q	70-130	3		20
Acetone	122		123		70-130	9		20
Carbon disulfide	85		85		70-130	0		20
Methyl ethyl ketone			127		70-130	12		20
Methyl isobutyl ketone	98		93		70-130	5		20
2-Hexanone	88		91		70-130	3		20
Bromochloromethane	105		106		70-130	1		20
Tetrahydrofuran	114		121		70-130	6		20

NOT APPLICABLE

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	PPM	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
2,2-Dichloropropane	116		114		70-130	2		20
1,2-Dibromoethane	99		100		70-130	1		20
1,3-Dichloropropane	99		98		70-130	1		20
1,1,1,2-Tetrachloroethane	104		104		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	96		94		70-130	2		20
sec-Butylbenzene	91		89		70-130	1		20
tert-Butylbenzene	90		89		70-130	1		20
o-Chlorotoluene	92		90		70-130	2		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	97		102		70-130	5		20
Hexachlorobutadiene	96		98		70-130	2		20
Isopropylbenzene	87		86		70-130	1		20
p-Isopropyltoluene	92		91		70-130	1		20
Naphthalene	87		91		70-130	4		20
n-Propylbenzene	90		90		70-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20
1,2,4-Trichlorobenzene	98		98		70-130	0		20
1,3,5-Trimethylbenzene			91		70-130	0		20
1,2,4-Trimethylbenzene	92		92		70-130	0		20
Diethyl ether	77		76		70-130	1		20
Diisopropyl Ether	104		104		70-130	0		20
Ethyl-Tert-Butyl-Ether	103		102		70-130	1		20

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,17,23 Batch: WG1284397-3 WG1284397-4								
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	87		91		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		123		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	84		85		70-130
Dibromofluoromethane	104		105		70-130

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	95		95		70-130	3		20
Toluene	96		93		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	129		121		70-130	6		20
Bromomethane	89		87		70-130	2		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Vinyl chloride	103		99		70-130	4		20
Chloroethane	95		91		70-130	4		20
1,1-Dichloroethene	94		87		70-130	8		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96		92		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	98		95		70-130	3		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	108		104		70-130	4		20
1,2,3-Trichloropropane	99		93		70-130	6		20
Styrene	95		91		70-130	4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130	3		20
Acetone	111		108		70-130	3		20
Carbon disulfide	90		85		70-130	6		20
Methyl ethyl ketone			109		70-130	2		20
Methyl isobutyl ketone	99		96		70-130	3		20
2-Hexanone	86		83		70-130	4		20
Bromochloromethane	103		101		70-130	2		20
Tetrahydrofuran	118		113		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		89		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene			88		70-130	4		20
1,2,4-Trimethylbenzene	92		88		70-130	4		20
Diethyl ether	80		79		70-130	1		20
Diisopropyl Ether	100		98		70-130	2		20
Ethyl-Tert-Butyl-Ether	98		94		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,23-24 Batch: WG1284519-3 WG1284519-4								
Tertiary-Amyl Methyl Ether	91		89		70-130	2		20
1,4-Dioxane	88		88		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		85		70-130
Dibromofluoromethane	100		99		70-130

NOT APPLICABLE



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Methylene chloride	96		94		70-130	2		20
1,1-Dichloroethane	106		103		70-130	3		20
Chloroform	104		104		70-130	0		20
Carbon tetrachloride	109		107		70-130	2		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	100		98		70-130	2		20
1,1,2-Trichloroethane	99		99		70-130	0		20
Tetrachloroethene	99		95		70-130	4		20
Chlorobenzene	94		92		70-130	2		20
Trichlorofluoromethane	128		122		70-130	5		20
1,2-Dichloroethane	113		111		70-130	2		20
1,1,1-Trichloroethane	107		102		70-130	5		20
Bromodichloromethane	104		101		70-130	3		20
trans-1,3-Dichloropropene	98		96		70-130	2		20
cis-1,3-Dichloropropene	102		99		70-130	3		20
1,1-Dichloropropene	103		99		70-130	4		20
Bromoform	100		96		70-130	4		20
1,1,2,2-Tetrachloroethane	94		89		70-130	5		20
Benzene	95		95		70-130	3		20
Toluene	96		93		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	129		121		70-130	6		20
Bromomethane	89		87		70-130	2		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
Vinyl chloride	103		99		70-130	4		20
Chloroethane	95		91		70-130	4		20
1,1-Dichloroethene	94		87		70-130	8		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	96		91		70-130	5		20
1,3-Dichlorobenzene	96		91		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	98		95		70-130	3		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	108		104		70-130	4		20
1,2,3-Trichloropropane	99		93		70-130	6		20
Styrene	95		91		70-130	4		20
Dichlorodifluoromethane	141	Q	137	Q	70-130	3		20
Acetone	111		108		70-130	3		20
Carbon disulfide	90		85		70-130	6		20
Methyl ethyl ketone			109		70-130	2		20
Methyl isobutyl ketone	99		96		70-130	3		20
2-Hexanone	86		83		70-130	4		20
Bromochloromethane	103		101		70-130	2		20
Tetrahydrofuran	118		113		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4								
2,2-Dichloropropane	103		100		70-130	3		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	98		94		70-130	4		20
Bromobenzene	94		90		70-130	4		20
n-Butylbenzene	97		91		70-130	6		20
sec-Butylbenzene	93		88		70-130	4		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	94		89		70-130	5		20
p-Chlorotoluene	92		88		70-130	4		20
1,2-Dibromo-3-chloropropane	96		92		70-130	4		20
Hexachlorobutadiene	95		90		70-130	5		20
Isopropylbenzene	90		85		70-130	6		20
p-Isopropyltoluene	93		88		70-130	6		20
Naphthalene	90		87		70-130	3		20
n-Propylbenzene	94		88		70-130	7		20
1,2,3-Trichlorobenzene	98		93		70-130	5		20
1,2,4-Trichlorobenzene	99		93		70-130	6		20
1,3,5-Trimethylbenzene			88		70-130	4		20
1,2,4-Trimethylbenzene	92		88		70-130	4		20
Diethyl ether	80		79		70-130	1		20
Diisopropyl Ether	100		98		70-130	2		20
Ethyl-Tert-Butyl-Ether	98		94		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery		RPD	RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual					
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1284521-3 WG1284521-4											
Tertiary-Amyl Methyl Ether	91		89		70-130		2				20
1,4-Dioxane	88		88		70-130		0				20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	91		92		70-130
4-Bromofluorobenzene	89		86		70-130
Dibromofluoromethane	100		99		70-130

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Methylene chloride	80		78		70-130	3		20
1,1-Dichloroethane	94		91		70-130	3		20
Chloroform	92		89		70-130	3		20
Carbon tetrachloride	94		91		70-130	3		20
1,2-Dichloropropane	89		88		70-130	1		20
Dibromochloromethane	91		90		70-130	1		20
1,1,2-Trichloroethane	86		85		70-130	4		20
Tetrachloroethene	94		90		70-130	4		20
Chlorobenzene	92		90		70-130	2		20
Trichlorofluoromethane	95		91		70-130	4		20
1,2-Dichloroethane	90		88		70-130	2		20
1,1,1-Trichloroethane	96		93		70-130	3		20
Bromodichloromethane	91		90		70-130	1		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	88		86		70-130	2		20
1,1-Dichloropropene	92		89		70-130	3		20
Bromoform	90		78		70-130	3		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	92		87		70-130	2		20
Toluene	92		88		70-130	4		20
Ethylbenzene	93		91		70-130	2		20
Chloromethane	112		109		70-130	3		20
Bromomethane	99		86		70-130	14		20

NOT APPLICABLE

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	PPM	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Vinyl chloride	95		90		70-130	5		20
Chloroethane	87		83		70-130	5		20
1,1-Dichloroethene	91		87		70-130	4		20
trans-1,2-Dichloroethene	92		87		70-130	6		20
Trichloroethene	91		88		70-130	3		20
1,2-Dichlorobenzene	89		88		70-130	1		20
1,3-Dichlorobenzene	93		89		70-130	3		20
1,4-Dichlorobenzene	92		90		70-130	2		20
Methyl tert butyl ether	79		88		70-130	1		20
p/m-Xylene	95		92		70-130	3		20
o-Xylene	92		89		70-130	3		20
cis-1,2-Dichloroethene	88		85		70-130	3		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		83		70-130	1		20
Styrene	93		90		70-130	3		20
Dichlorodifluoromethane	100		97		70-130	3		20
Acetone	101		105		70-130	4		20
Carbon disulfide	88		84		70-130	5		20
Methyl ethyl ketone			94		70-130	7		20
Methyl isobutyl ketone	79		83		70-130	5		20
2-Hexanone	90		92		70-130	2		20
Bromochloromethane	89		86		70-130	3		20
Tetrahydrofuran	94		95		70-130	1		20

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
2,2-Dichloropropane	91		88		70-130	3		20
1,2-Dibromoethane	87		86		70-130	1		20
1,3-Dichloropropane	85		84		70-130	1		20
1,1,1,2-Tetrachloroethane	95		91		70-130	4		20
Bromobenzene	86		85		70-130	1		20
n-Butylbenzene	98		96		70-130	2		20
sec-Butylbenzene	95		90		70-130	3		20
tert-Butylbenzene	92		90		70-130	2		20
o-Chlorotoluene	94		90		70-130	4		20
p-Chlorotoluene	94		93		70-130	1		20
1,2-Dibromo-3-chloropropane	74		78		70-130	5		20
Hexachlorobutadiene	86		85		70-130	1		20
Isopropylbenzene	94		90		70-130	4		20
p-Isopropyltoluene	95		92		70-130	3		20
Naphthalene	82		83		70-130	1		20
n-Propylbenzene	95		93		70-130	2		20
1,2,3-Trichlorobenzene	87		86		70-130	1		20
1,2,4-Trichlorobenzene	92		90		70-130	2		20
1,3,5-Trimethylbenzene			92		70-130	2		20
1,2,4-Trimethylbenzene	94		92		70-130	2		20
Diethyl ether	80		80		70-130	0		20
Diisopropyl Ether	102		101		70-130	1		20
Ethyl-Tert-Butyl-Ether	86		85		70-130	1		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 27,44-45 Batch: WG1284565-3 WG1284565-4								
Tertiary-Amyl Methyl Ether	77		76		70-130	1		20
1,4-Dioxane	96		98		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	102		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	95		97		70-130

NOT APPLICABLE



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		99		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	97		90		70-130	3		20
1,1,1,2-Tetrachloroethane	96		99		70-130	3		20
Benzene			100		70-130	2		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		102		70-130	2		20
Chloromethane	128		127		70-130	1		20
Bromomethane	96		94		70-130	2		20

NOT APPLICABLE

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	2		20
Methyl tert butyl ether	90		101		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone			114		70-130	9		20
Methyl isobutyl ketone	96		99		70-130	3		20
2-Hexanone	107		110		70-130	3		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	110		116		70-130	5		20

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		100		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	97		104		70-130	2		20
1,2,4-Trimethylbenzene	103		105		70-130	2		20
Diethyl ether	89		92		70-130	3		20
Diisopropyl Ether	118		120		70-130	2		20
Ethyl-Tert-Butyl-Ether	97		100		70-130	3		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12,50,113 Batch: WG1284596-3 WG1284596-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Methylene chloride	89		91		70-130	2		20
1,1-Dichloroethane	104		105		70-130	1		20
Chloroform	101		103		70-130	2		20
Carbon tetrachloride	102		102		70-130	0		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	98		102		70-130	4		20
1,1,2-Trichloroethane	93		99		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	99		101		70-130	2		20
Trichlorofluoromethane	103		103		70-130	0		20
1,2-Dichloroethane	100		104		70-130	4		20
1,1,1-Trichloroethane	105		106		70-130	1		20
Bromodichloromethane	101		103		70-130	2		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	101		101		70-130	0		20
Bromoform	97		90		70-130	3		20
1,1,2,2-Tetrachloroethane	96		99		70-130	3		20
Benzene			100		70-130	2		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		102		70-130	2		20
Chloromethane	128		127		70-130	1		20
Bromomethane	96		94		70-130	2		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Vinyl chloride	104		107		70-130	3		20
Chloroethane	96		95		70-130	1		20
1,1-Dichloroethene	98		98		70-130	0		20
trans-1,2-Dichloroethene	98		99		70-130	1		20
Trichloroethene	100		102		70-130	2		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		102		70-130	3		20
1,4-Dichlorobenzene	100		100		70-130	2		20
Methyl tert butyl ether	90		101		70-130	1		20
p/m-Xylene	101		103		70-130	2		20
o-Xylene	98		101		70-130	3		20
cis-1,2-Dichloroethene	97		97		70-130	0		20
Dibromomethane	94		97		70-130	3		20
1,2,3-Trichloropropane	93		98		70-130	5		20
Styrene	100		102		70-130	2		20
Dichlorodifluoromethane	110		109		70-130	1		20
Acetone	121		118		70-130	3		20
Carbon disulfide	96		95		70-130	1		20
Methyl ethyl ketone			114		70-130	9		20
Methyl isobutyl ketone	96		99		70-130	3		20
2-Hexanone	107		110		70-130	3		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	110		116		70-130	5		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
2,2-Dichloropropane	100		101		70-130	1		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	94		98		70-130	4		20
1,1,1,2-Tetrachloroethane	101		102		70-130	1		20
Bromobenzene	92		95		70-130	3		20
n-Butylbenzene	108		111		70-130	3		20
sec-Butylbenzene	102		105		70-130	3		20
tert-Butylbenzene	100		100		70-130	2		20
o-Chlorotoluene	102		105		70-130	3		20
p-Chlorotoluene	103		106		70-130	3		20
1,2-Dibromo-3-chloropropane	84		91		70-130	8		20
Hexachlorobutadiene	91		93		70-130	2		20
Isopropylbenzene	101		103		70-130	2		20
p-Isopropyltoluene	104		106		70-130	2		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	104		106		70-130	2		20
1,2,3-Trichlorobenzene	96		97		70-130	1		20
1,2,4-Trichlorobenzene	98		100		70-130	2		20
1,3,5-Trimethylbenzene	97		104		70-130	2		20
1,2,4-Trimethylbenzene	103		105		70-130	2		20
Diethyl ether	89		92		70-130	3		20
Diisopropyl Ether	118		120		70-130	2		20
Ethyl-Tert-Butyl-Ether	97		100		70-130	3		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11,55-56,101,115,138-139,140 Batch: WG1284598-3 WG1284598-4								
Tertiary-Amyl Methyl Ether	86		88		70-130	2		20
1,4-Dioxane	88		95		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		100		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,1,2-Tetrachloroethane	100		104		70-130	4		20
Benzene			103		70-130	2		20
Toluene	101		103		70-130	2		20
Ethylbenzene	105		107		70-130	2		20
Chloromethane	113		113		70-130	0		20
Bromomethane	93		89		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Vinyl chloride	96		100		70-130	4		20
Chloroethane	94		94		70-130	0		20
1,1-Dichloroethene	100		101		70-130	1		20
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		103		70-130	3		20
1,4-Dichlorobenzene	102		100		70-130	2		20
Methyl tert butyl ether	92		94		70-130	2		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	102		104		70-130	2		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	98		102		70-130	4		20
1,2,3-Trichloropropane	97		102		70-130	5		20
Styrene	104		106		70-130	2		20
Dichlorodifluoromethane	84		83		70-130	1		20
Acetone	21		134	Q	70-130	10		20
Carbon disulfide	94		96		70-130	2		20
Methyl ethyl ketone			112		70-130	0		20
Methyl isobutyl ketone	97		102		70-130	5		20
2-Hexanone	110		114		70-130	4		20
Bromochloromethane	100		102		70-130	2		20
Tetrahydrofuran	116		120		70-130	3		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		103		70-130	3		20
tert-Butylbenzene	102		100		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene			107		70-130	3		20
1,2,4-Trimethylbenzene	105		108		70-130	3		20
Diethyl ether	92		93		70-130	1		20
Diisopropyl Ether	122		124		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 44 Batch: WG1284780-3 WG1284780-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	107		108		70-130	1		20
Chloroform	105		107		70-130	2		20
Carbon tetrachloride	107		109		70-130	2		20
1,2-Dichloropropane	104		106		70-130	2		20
Dibromochloromethane	104		106		70-130	2		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	102		100		70-130	1		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	105		108		70-130	3		20
1,1,1-Trichloroethane	109		111		70-130	2		20
Bromodichloromethane	106		110		70-130	4		20
trans-1,3-Dichloropropene	103		105		70-130	2		20
cis-1,3-Dichloropropene	102		104		70-130	2		20
1,1-Dichloropropene	104		108		70-130	4		20
Bromoform	91		95		70-130	4		20
1,1,2,2-Tetrachloroethane	100		104		70-130	4		20
Benzene			103		70-130	2		20
Toluene	101		103		70-130	2		20
Ethylbenzene	105		107		70-130	2		20
Chloromethane	113		113		70-130	0		20
Bromomethane	93		89		70-130	4		20

NOT APPLICABLE

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Vinyl chloride	96		100		70-130	4		20
Chloroethane	94		94		70-130	0		20
1,1-Dichloroethene	100		101		70-130	1		20
trans-1,2-Dichloroethene	101		102		70-130	1		20
Trichloroethene	104		105		70-130	1		20
1,2-Dichlorobenzene	100		102		70-130	2		20
1,3-Dichlorobenzene	102		103		70-130	3		20
1,4-Dichlorobenzene	102		100		70-130	2		20
Methyl tert butyl ether	92		94		70-130	2		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	102		104		70-130	2		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	98		102		70-130	4		20
1,2,3-Trichloropropane	97		102		70-130	5		20
Styrene	104		106		70-130	2		20
Dichlorodifluoromethane	84		83		70-130	1		20
Acetone	21		134	Q	70-130	10		20
Carbon disulfide	94		96		70-130	2		20
Methyl ethyl ketone	112		112		70-130	0		20
Methyl isobutyl ketone	97		102		70-130	5		20
2-Hexanone	110		114		70-130	4		20
Bromochloromethane	100		102		70-130	2		20
Tetrahydrofuran	116		120		70-130	3		20

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
2,2-Dichloropropane	103		105		70-130	2		20
1,2-Dibromoethane	100		102		70-130	2		20
1,3-Dichloropropane	99		101		70-130	2		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	95		98		70-130	3		20
n-Butylbenzene	109		112		70-130	3		20
sec-Butylbenzene	105		103		70-130	3		20
tert-Butylbenzene	102		100		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	106		109		70-130	3		20
1,2-Dibromo-3-chloropropane	88		93		70-130	6		20
Hexachlorobutadiene	88		90		70-130	2		20
Isopropylbenzene	104		107		70-130	3		20
p-Isopropyltoluene	105		108		70-130	3		20
Naphthalene	96		99		70-130	3		20
n-Propylbenzene	107		109		70-130	2		20
1,2,3-Trichlorobenzene	97		98		70-130	1		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene			107		70-130	3		20
1,2,4-Trimethylbenzene	105		108		70-130	3		20
Diethyl ether	92		93		70-130	1		20
Diisopropyl Ether	122		124		70-130	2		20
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,105,140 Batch: WG1284781-3 WG1284781-4								
Tertiary-Amyl Methyl Ether	90		94		70-130	4		20
1,4-Dioxane	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	97		98		70-130

NOT APPLICABLE



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Methylene chloride	92		92		70-130	0		20
1,1-Dichloroethane	110		109		70-130	1		20
Chloroform	107		106		70-130	1		20
Carbon tetrachloride	108		109		70-130	1		20
1,2-Dichloropropane	101		104		70-130	3		20
Dibromochloromethane	100		100		70-130	0		20
1,1,2-Trichloroethane	96		98		70-130	1		20
Tetrachloroethene	103		103		70-130	0		20
Chlorobenzene	103		103		70-130	0		20
Trichlorofluoromethane	112		110		70-130	2		20
1,2-Dichloroethane	103		104		70-130	1		20
1,1,1-Trichloroethane	111		110		70-130	1		20
Bromodichloromethane	105		105		70-130	0		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	99		101		70-130	2		20
1,1-Dichloropropene	109		108		70-130	1		20
Bromoform	85		86		70-130	1		20
1,1,2,2-Tetrachloroethane	97		99		70-130	2		20
Benzene			103		70-130	1		20
Toluene	103		104		70-130	1		20
Ethylbenzene	107		106		70-130	1		20
Chloromethane	<b>137</b>	Q	<b>138</b>	Q	70-130	1		20
Bromomethane	104		98		70-130	6		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Vinyl chloride	116		113		70-130	3		20
Chloroethane	103		102		70-130	1		20
1,1-Dichloroethene	106		106		70-130	0		20
trans-1,2-Dichloroethene	106		104		70-130	2		20
Trichloroethene	106		106		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	103		103		70-130	0		20
1,4-Dichlorobenzene	102		102		70-130	0		20
Methyl tert butyl ether	88		89		70-130	1		20
p/m-Xylene	106		107		70-130	1		20
o-Xylene	103		103		70-130	0		20
cis-1,2-Dichloroethene	101		102		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	95		98		70-130	3		20
Styrene	102		103		70-130	0		20
Dichlorodifluoromethane	119		118		70-130	1		20
Acetone	133	Q	137	Q	70-130	3		20
Carbon disulfide	103		102		70-130	1		20
Methyl ethyl ketone			116		70-130	3		20
Methyl isobutyl ketone	95		97		70-130	2		20
2-Hexanone	107		112		70-130	5		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	113		118		70-130	4		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
2,2-Dichloropropane	106		105		70-130	1		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	95		96		70-130	1		20
1,1,1,2-Tetrachloroethane	103		103		70-130	0		20
Bromobenzene	96		97		70-130	1		20
n-Butylbenzene	115		116		70-130	1		20
sec-Butylbenzene	111		111		70-130	0		20
tert-Butylbenzene	105		105		70-130	1		20
o-Chlorotoluene	107		108		70-130	1		20
p-Chlorotoluene	107		109		70-130	2		20
1,2-Dibromo-3-chloropropane	85		91		70-130	7		20
Hexachlorobutadiene	97		100		70-130	3		20
Isopropylbenzene	107		107		70-130	0		20
p-Isopropyltoluene	109		110		70-130	1		20
Naphthalene	91		94		70-130	3		20
n-Propylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	94		94		70-130	0		20
1,2,4-Trichlorobenzene	97		98		70-130	1		20
1,3,5-Trimethylbenzene			108		70-130	0		20
1,2,4-Trimethylbenzene	107		108		70-130	1		20
Diethyl ether	90		91		70-130	1		20
Diisopropyl Ether	120		120		70-130	0		20
Ethyl-Tert-Butyl-Ether	97		98		70-130	1		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 138,143 Batch: WG1284929-3 WG1284929-4								
Tertiary-Amyl Methyl Ether	85		86		70-130	1		20
1,4-Dioxane	94		97		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	97		95		70-130

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	99		99		70-130	0		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	98		99		70-130	1		20
1,2-Dichloropropane	95		96		70-130	1		20
Dibromochloromethane	94		96		70-130	2		20
1,1,2-Trichloroethane	88		88		70-130	3		20
Tetrachloroethene	97		95		70-130	2		20
Chlorobenzene	94		96		70-130	2		20
Trichlorofluoromethane	99		98		70-130	1		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	102		102		70-130	0		20
Bromodichloromethane	97		99		70-130	2		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
1,1-Dichloropropene	98		98		70-130	0		20
Bromoform	94		85		70-130	1		20
1,1,2,2-Tetrachloroethane	89		91		70-130	2		20
Benzene			95		70-130	1		20
Toluene	92		94		70-130	2		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	118		118		70-130	0		20
Bromomethane	90		89		70-130	1		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	PPM	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Vinyl chloride	99		98		70-130	1		20
Chloroethane	92		89		70-130	3		20
1,1-Dichloroethene	96		96		70-130	0		20
trans-1,2-Dichloroethene	96		96		70-130	0		20
Trichloroethene	96		97		70-130	1		20
1,2-Dichlorobenzene	92		93		70-130	1		20
1,3-Dichlorobenzene	94		94		70-130	1		20
1,4-Dichlorobenzene	94		94		70-130	0		20
Methyl tert butyl ether	86		88		70-130	2		20
p/m-Xylene	97		98		70-130	1		20
o-Xylene	94		95		70-130	1		20
cis-1,2-Dichloroethene	93		94		70-130	1		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	88		89		70-130	1		20
Styrene	94		96		70-130	2		20
Dichlorodifluoromethane	102		100		70-130	2		20
Acetone	112		115		70-130	3		20
Carbon disulfide	93		93		70-130	0		20
Methyl ethyl ketone			104		70-130	5		20
Methyl isobutyl ketone	89		92		70-130	3		20
2-Hexanone	100		102		70-130	2		20
Bromochloromethane	95		95		70-130	0		20
Tetrahydrofuran	104		109		70-130	5		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
2,2-Dichloropropane	97		97		70-130	0		20
1,2-Dibromoethane	92		94		70-130	2		20
1,3-Dichloropropane	89		91		70-130	2		20
1,1,1,2-Tetrachloroethane	97		98		70-130	1		20
Bromobenzene	88		89		70-130	1		20
n-Butylbenzene	97		97		70-130	0		20
sec-Butylbenzene	94		95		70-130	1		20
tert-Butylbenzene	93		93		70-130	0		20
o-Chlorotoluene	94		95		70-130	1		20
p-Chlorotoluene	96		96		70-130	0		20
1,2-Dibromo-3-chloropropane	84		85		70-130	1		20
Hexachlorobutadiene	83		83		70-130	0		20
Isopropylbenzene	95		94		70-130	1		20
p-Isopropyltoluene	94		95		70-130	1		20
Naphthalene	88		89		70-130	1		20
n-Propylbenzene	96		97		70-130	1		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20
1,2,4-Trichlorobenzene	92		92		70-130	0		20
1,3,5-Trimethylbenzene			95		70-130	0		20
1,2,4-Trimethylbenzene	95		96		70-130	1		20
Diethyl ether	88		88		70-130	0		20
Diisopropyl Ether	110		111		70-130	1		20
Ethyl-Tert-Butyl-Ether	93		95		70-130	2		20

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27 Batch: WG1285102-3 WG1285102-4								
Tertiary-Amyl Methyl Ether	83		85		70-130	2		20
1,4-Dioxane	95		102		70-130	7		20

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

NOT APPLICABLE



**PETROLEUM  
HYDROCARBONS**

**NOT APPLICABLE**

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-101  
 Client ID: B-09 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 08:56  
 Analyst: MEO  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	14.1	--	2
C19-C36 Aliphatics	115		mg/kg	14.1	--	2
C11-C22 Aromatics	371		mg/kg	14.1	--	2
C11-C22 Aromatics, Adjusted	245		mg/kg	14.1	--	2
Naphthalene	ND		mg/kg	0.706	--	2
2-Methylnaphthalene	ND		mg/kg	0.706	--	2
Acenaphthylene	ND		mg/kg	0.706	--	2
Acenaphthene	1.02		mg/kg	0.706	--	2
Fluorene	1.14		mg/kg	0.706	--	2
Phenanthrene	13.2		mg/kg	0.706	--	2
Anthracene	3.58		mg/kg	0.706	--	2
Fluoranthene	22.8		mg/kg	0.706	--	2
Pyrene	19.1		mg/kg	0.706	--	2
Benzo(a)anthracene	10.3		mg/kg	0.706	--	2
Chrysene	10.8		mg/kg	0.706	--	2
Benzo(b)fluoranthene	9.48		mg/kg	0.706	--	2
Benzo(k)fluoranthene	9.16		mg/kg	0.706	--	2
Benzo(a)pyrene	10.0		mg/kg	0.706	--	2
Indeno(1,2,3-cd)Pyrene	6.97		mg/kg	0.706	--	2
Dibenzo(a,h)anthracene	1.90		mg/kg	0.706	--	2
Benzo(ghi)perylene	6.04		mg/kg	0.706	--	2

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-101  
 Client ID: B-09 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	88		40-140
2-Bromonaphthalene	87		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-105 D

Date Collected: 09/05/19 10:02

Client ID: B-09 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 09/11/19 00:54

Analytical Date: 09/16/19 16:38

Cleanup Method1: EPH-04-1

Analyst: MEO

Cleanup Date1: 09/11/19

Percent Solids: 92%

## Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	27.5	--	4
C19-C36 Aliphatics	136		mg/kg	27.5	--	4
C11-C22 Aromatics	503		mg/kg	27.5	--	4
C11-C22 Aromatics, Adjusted	315		mg/kg	27.5	--	4
Naphthalene	ND		mg/kg	1.37	--	4
2-Methylnaphthalene	ND		mg/kg	1.37	--	4
Acenaphthylene	ND		mg/kg	1.37	--	4
Acenaphthene	2.13		mg/kg	1.37	--	4
Fluorene	2.42		mg/kg	1.37	--	4
Phenanthrene	21.7		mg/kg	1.37	--	4
Anthracene	6.27		mg/kg	1.37	--	4
Fluoranthene	34.7		mg/kg	1.37	--	4
Pyrene	28.9		mg/kg	1.37	--	4
Benzo(a)anthracene	15.5		mg/kg	1.37	--	4
Chrysene	15.9		mg/kg	1.37	--	4
Benzo(b)fluoranthene	13.7		mg/kg	1.37	--	4
Benzo(k)fluoranthene	13.1		mg/kg	1.37	--	4
Benzo(a)pyrene	13.8		mg/kg	1.37	--	4
Indeno(1,2,3-cd)Pyrene	9.12		mg/kg	1.37	--	4
Dibenzo(a,h)anthracene	2.60		mg/kg	1.37	--	4
Benzo(ghi)perylene	7.64		mg/kg	1.37	--	4

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-105 D  
 Client ID: B-09 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	54		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	76		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-11  
 Client ID: SB-4 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:50  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 03:15  
 Analyst: MEO  
 Percent Solids: 95%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	6.74	--	1
C19-C36 Aliphatics	ND		mg/kg	6.74	--	1
C11-C22 Aromatics	12.6		mg/kg	6.74	--	1
C11-C22 Aromatics, Adjusted	11.7		mg/kg	6.74	--	1
Naphthalene	ND		mg/kg	0.337	--	1
2-Methylnaphthalene	ND		mg/kg	0.337	--	1
Acenaphthylene	ND		mg/kg	0.337	--	1
Acenaphthene	ND		mg/kg	0.337	--	1
Fluorene	ND		mg/kg	0.337	--	1
Phenanthrene	ND		mg/kg	0.337	--	1
Anthracene	ND		mg/kg	0.337	--	1
Fluoranthene	0.418		mg/kg	0.337	--	1
Pyrene	0.395		mg/kg	0.337	--	1
Benzo(a)anthracene	ND		mg/kg	0.337	--	1
Chrysene	ND		mg/kg	0.337	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.337	--	1
Benzo(a)pyrene	ND		mg/kg	0.337	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.337	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.337	--	1
Benzo(ghi)perylene	ND		mg/kg	0.337	--	1

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	58		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	73		40-140

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-113 D  
 Client ID: B-05 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/16/19 15:20  
 Analyst: MEO  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:55  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

**Quality Control Information**

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	36.4	--	5
C19-C36 Aliphatics	57.2		mg/kg	36.4	--	5
C11-C22 Aromatics	408		mg/kg	36.4	--	5
C11-C22 Aromatics, Adjusted	257		mg/kg	36.4	--	5
Naphthalene	ND		mg/kg	1.82	--	5
2-Methylnaphthalene	ND		mg/kg	1.82	--	5
Acenaphthylene	ND		mg/kg	1.82	--	5
Acenaphthene	2.25		mg/kg	1.82	--	5
Fluorene	2.56		mg/kg	1.82	--	5
Phenanthrene	26.6		mg/kg	1.82	--	5
Anthracene	7.11		mg/kg	1.82	--	5
Fluoranthene	29.9		mg/kg	1.82	--	5
Pyrene	24.4		mg/kg	1.82	--	5
Benzo(a)anthracene	12.7		mg/kg	1.82	--	5
Chrysene	12.5		mg/kg	1.82	--	5
Benzo(b)fluoranthene	8.56		mg/kg	1.82	--	5
Benzo(k)fluoranthene	8.82		mg/kg	1.82	--	5
Benzo(a)pyrene	9.76		mg/kg	1.82	--	5
Indeno(1,2,3-cd)Pyrene	5.97		mg/kg	1.82	--	5
Dibenzo(a,h)anthracene	ND		mg/kg	1.82	--	5
Benzo(ghi)perylene	5.06		mg/kg	1.82	--	5



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-113 D  
 Client ID: B-05 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	82		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-115  
 Client ID: B-05 (3-5)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 05:08  
 Analyst: MEO  
 Percent Solids: 69%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:55  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	9.33	--	1
C19-C36 Aliphatics	ND		mg/kg	9.33	--	1
C11-C22 Aromatics	64.4		mg/kg	9.33	--	1
C11-C22 Aromatics, Adjusted	48.7		mg/kg	9.33	--	1
Naphthalene	ND		mg/kg	0.466	--	1
2-Methylnaphthalene	ND		mg/kg	0.466	--	1
Acenaphthylene	ND		mg/kg	0.466	--	1
Acenaphthene	0.500		mg/kg	0.466	--	1
Fluorene	ND		mg/kg	0.466	--	1
Phenanthrene	2.60		mg/kg	0.466	--	1
Anthracene	0.490		mg/kg	0.466	--	1
Fluoranthene	2.74		mg/kg	0.466	--	1
Pyrene	2.34		mg/kg	0.466	--	1
Benzo(a)anthracene	1.14		mg/kg	0.466	--	1
Chrysene	1.33		mg/kg	0.466	--	1
Benzo(b)fluoranthene	1.04		mg/kg	0.466	--	1
Benzo(k)fluoranthene	1.07		mg/kg	0.466	--	1
Benzo(a)pyrene	1.07		mg/kg	0.466	--	1
Indeno(1,2,3-cd)Pyrene	0.719		mg/kg	0.466	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.466	--	1
Benzo(ghi)perylene	0.580		mg/kg	0.466	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-115  
 Client ID: B-05 (3-5)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	69		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-12  
 Client ID: SB-4 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 03:52  
 Analyst: MEO  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	6.80	--	1
C19-C36 Aliphatics	16.6		mg/kg	6.80	--	1
C11-C22 Aromatics	48.6		mg/kg	6.80	--	1
C11-C22 Aromatics, Adjusted	35.7		mg/kg	6.80	--	1
Naphthalene	ND		mg/kg	0.340	--	1
2-Methylnaphthalene	ND		mg/kg	0.340	--	1
Acenaphthylene	ND		mg/kg	0.340	--	1
Acenaphthene	ND		mg/kg	0.340	--	1
Fluorene	ND		mg/kg	0.340	--	1
Phenanthrene	0.759		mg/kg	0.340	--	1
Anthracene	ND		mg/kg	0.340	--	1
Fluoranthene	1.98		mg/kg	0.340	--	1
Pyrene	1.82		mg/kg	0.340	--	1
Benzo(a)anthracene	1.38		mg/kg	0.340	--	1
Chrysene	1.38		mg/kg	0.340	--	1
Benzo(b)fluoranthene	1.29		mg/kg	0.340	--	1
Benzo(k)fluoranthene	1.34		mg/kg	0.340	--	1
Benzo(a)pyrene	1.52		mg/kg	0.340	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.340	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.340	--	1
Benzo(ghi)perylene	0.982		mg/kg	0.340	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-12  
 Client ID: SB-4 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	59		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-138  
 Client ID: SB-1 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 09:34  
 Analyst: MEO  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:55  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	113		mg/kg	13.8	--	2
C11-C22 Aromatics	284		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	207		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.690	--	2
2-Methylnaphthalene	ND		mg/kg	0.690	--	2
Acenaphthylene	ND		mg/kg	0.690	--	2
Acenaphthene	1.31		mg/kg	0.690	--	2
Fluorene	1.10		mg/kg	0.690	--	2
Phenanthrene	12.3		mg/kg	0.690	--	2
Anthracene	2.75		mg/kg	0.690	--	2
Fluoranthene	14.6		mg/kg	0.690	--	2
Pyrene	12.6		mg/kg	0.690	--	2
Benzo(a)anthracene	6.30		mg/kg	0.690	--	2
Chrysene	6.78		mg/kg	0.690	--	2
Benzo(b)fluoranthene	4.96		mg/kg	0.690	--	2
Benzo(k)fluoranthene	5.25		mg/kg	0.690	--	2
Benzo(a)pyrene	5.73		mg/kg	0.690	--	2
Indeno(1,2,3-cd)Pyrene	3.58		mg/kg	0.690	--	2
Dibenzo(a,h)anthracene	1.11		mg/kg	0.690	--	2
Benzo(ghi)perylene	3.06		mg/kg	0.690	--	2

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-138  
 Client ID: SB-1 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-139 D  
 Client ID: SB-1 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/16/19 15:59  
 Analyst: MEO  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:55  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	71.7	--	10
C19-C36 Aliphatics	ND		mg/kg	71.7	--	10
C11-C22 Aromatics	460		mg/kg	71.7	--	10
C11-C22 Aromatics, Adjusted	271		mg/kg	71.7	--	10
Naphthalene	ND		mg/kg	3.58	--	10
2-Methylnaphthalene	ND		mg/kg	3.58	--	10
Acenaphthylene	ND		mg/kg	3.58	--	10
Acenaphthene	ND		mg/kg	3.58	--	10
Fluorene	ND		mg/kg	3.58	--	10
Phenanthrene	40.9		mg/kg	3.58	--	10
Anthracene	7.37		mg/kg	3.58	--	10
Fluoranthene	37.2		mg/kg	3.58	--	10
Pyrene	28.6		mg/kg	3.58	--	10
Benzo(a)anthracene	14.2		mg/kg	3.58	--	10
Chrysene	13.8		mg/kg	3.58	--	10
Benzo(b)fluoranthene	10.5		mg/kg	3.58	--	10
Benzo(k)fluoranthene	11.5		mg/kg	3.58	--	10
Benzo(a)pyrene	11.9		mg/kg	3.58	--	10
Indeno(1,2,3-cd)Pyrene	7.27		mg/kg	3.58	--	10
Dibenzo(a,h)anthracene	ND		mg/kg	3.58	--	10
Benzo(ghi)perylene	6.20		mg/kg	3.58	--	10



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-139 D

Date Collected: 09/05/19 13:39

Client ID: SB-1 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	68		40-140
2-Bromonaphthalene	67		40-140

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-140  
 Client ID: SB-DUP-1  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 12:46  
 Analyst: MEO  
 Percent Solids: 95%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:55  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	13.9	--	2
C19-C36 Aliphatics	199		mg/kg	13.9	--	2
C11-C22 Aromatics	457		mg/kg	13.9	--	2
C11-C22 Aromatics, Adjusted	315		mg/kg	13.9	--	2
Naphthalene	0.19		mg/kg	0.696	--	2
2-Methylnaphthalene	ND		mg/kg	0.696	--	2
Acenaphthylene	ND		mg/kg	0.696	--	2
Acenaphthene	1.97		mg/kg	0.696	--	2
Fluorene	1.76		mg/kg	0.696	--	2
Phenanthrene	21.4		mg/kg	0.696	--	2
Anthracene	4.66		mg/kg	0.696	--	2
Fluoranthene	25.9		mg/kg	0.696	--	2
Pyrene	21.8		mg/kg	0.696	--	2
Benzo(a)anthracene	10.2		mg/kg	0.696	--	2
Chrysene	11.8		mg/kg	0.696	--	2
Benzo(b)fluoranthene	8.91		mg/kg	0.696	--	2
Benzo(k)fluoranthene	8.80		mg/kg	0.696	--	2
Benzo(a)pyrene	9.72		mg/kg	0.696	--	2
Indeno(1,2,3-cd)Pyrene	6.32		mg/kg	0.696	--	2
Dibenzo(a,h)anthracene	1.84		mg/kg	0.696	--	2
Benzo(ghi)perylene	5.53		mg/kg	0.696	--	2

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-140  
 Client ID: SB-DUP-1  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	84		40-140
2-Fluorobiphenyl	91		40-140
2-Bromonaphthalene	90		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-143  
 Client ID: SB-1 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 20:54  
 Analyst: SR  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 09/12/19 22:36  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/13/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	8.22	--	1
C19-C36 Aliphatics	98.5		mg/kg	8.22	--	1
C11-C22 Aromatics	79.3		mg/kg	8.22	--	1
C11-C22 Aromatics, Adjusted	59.7		mg/kg	8.22	--	1
Naphthalene	ND		mg/kg	0.411	--	1
2-Methylnaphthalene	ND		mg/kg	0.411	--	1
Acenaphthylene	ND		mg/kg	0.411	--	1
Acenaphthene	ND		mg/kg	0.411	--	1
Fluorene	ND		mg/kg	0.411	--	1
Phenanthrene	2.98		mg/kg	0.411	--	1
Anthracene	0.720		mg/kg	0.411	--	1
Fluoranthene	3.67		mg/kg	0.411	--	1
Pyrene	2.97		mg/kg	0.411	--	1
Benzo(a)anthracene	1.68		mg/kg	0.411	--	1
Chrysene	1.80		mg/kg	0.411	--	1
Benzo(b)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.411	--	1
Benzo(a)pyrene	1.47		mg/kg	0.411	--	1
Indeno(1,2,3-cd)Pyrene	1.06		mg/kg	0.411	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.411	--	1
Benzo(ghi)perylene	0.901		mg/kg	0.411	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-143  
 Client ID: SB-1 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:48  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	40		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	76		40-140

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 98,EPH-04-1.1  
**Analytical Date:** 09/14/19 05:46  
**Analyst:** MEO  
**Percent Solids:** 75%

**Extraction Method:** EPA 3546  
**Extraction Date:** 09/11/19 00:54  
**Cleanup Method1:** EPH-04-1  
**Cleanup Date1:** 09/11/19

**Quality Control Information**

**Condition of sample received:**  
**Sample Temperature upon receipt:**  
**Sample Extraction method:**

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	8.54	--	1
C19-C36 Aliphatics	18.1		mg/kg	8.54	--	1
C11-C22 Aromatics	21.9		mg/kg	8.54	--	1
C11-C22 Aromatics, Adjusted	21.9		mg/kg	8.54	--	1
Naphthalene	ND		mg/kg	0.427	--	1
2-Methylnaphthalene	ND		mg/kg	0.427	--	1
Acenaphthylene	ND		mg/kg	0.427	--	1
Acenaphthene	ND		mg/kg	0.427	--	1
Fluorene	ND		mg/kg	0.427	--	1
Phenanthrene	ND		mg/kg	0.427	--	1
Anthracene	ND		mg/kg	0.427	--	1
Fluoranthene	ND		mg/kg	0.427	--	1
Pyrene	ND		mg/kg	0.427	--	1
Benzo(a)anthracene	ND		mg/kg	0.427	--	1
Chrysene	ND		mg/kg	0.427	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.427	--	1
Benzo(a)pyrene	ND		mg/kg	0.427	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.427	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.427	--	1
Benzo(ghi)perylene	ND		mg/kg	0.427	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-15  
 Client ID: SB-4 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-17  
 Client ID: SB-3 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 11:29  
 Analyst: MEO  
 Percent Solids: 94%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	13.8	--	2
C19-C36 Aliphatics	90.0		mg/kg	13.8	--	2
C11-C22 Aromatics	149		mg/kg	13.8	--	2
C11-C22 Aromatics, Adjusted	130		mg/kg	13.8	--	2
Naphthalene	ND		mg/kg	0.689	--	2
2-Methylnaphthalene	ND		mg/kg	0.689	--	2
Acenaphthylene	ND		mg/kg	0.689	--	2
Acenaphthene	ND		mg/kg	0.689	--	2
Fluorene	ND		mg/kg	0.689	--	2
Phenanthrene	1.97		mg/kg	0.689	--	2
Anthracene	ND		mg/kg	0.689	--	2
Fluoranthene	3.15		mg/kg	0.689	--	2
Pyrene	2.77		mg/kg	0.689	--	2
Benzo(a)anthracene	1.54		mg/kg	0.689	--	2
Chrysene	1.80		mg/kg	0.689	--	2
Benzo(b)fluoranthene	1.54		mg/kg	0.689	--	2
Benzo(k)fluoranthene	1.62		mg/kg	0.689	--	2
Benzo(a)pyrene	1.65		mg/kg	0.689	--	2
Indeno(1,2,3-cd)Pyrene	1.17		mg/kg	0.689	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.689	--	2
Benzo(ghi)perylene	1.01		mg/kg	0.689	--	2



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-17  
 Client ID: SB-3 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:25  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	56		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-18  
 Client ID: SB-3 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 08:18  
 Analyst: MEO  
 Percent Solids: 95%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	14.0	--	2
C19-C36 Aliphatics	50.9		mg/kg	14.0	--	2
C11-C22 Aromatics	195		mg/kg	14.0	--	2
C11-C22 Aromatics, Adjusted	137		mg/kg	14.0	--	2
Naphthalene	ND		mg/kg	0.699	--	2
2-Methylnaphthalene	ND		mg/kg	0.699	--	2
Acenaphthylene	ND		mg/kg	0.699	--	2
Acenaphthene	0.973		mg/kg	0.699	--	2
Fluorene	0.752		mg/kg	0.699	--	2
Phenanthrene	7.18		mg/kg	0.699	--	2
Anthracene	1.77		mg/kg	0.699	--	2
Fluoranthene	10.3		mg/kg	0.699	--	2
Pyrene	8.53		mg/kg	0.699	--	2
Benzo(a)anthracene	4.62		mg/kg	0.699	--	2
Chrysene	4.72		mg/kg	0.699	--	2
Benzo(b)fluoranthene	4.07		mg/kg	0.699	--	2
Benzo(k)fluoranthene	3.89		mg/kg	0.699	--	2
Benzo(a)pyrene	4.45		mg/kg	0.699	--	2
Indeno(1,2,3-cd)Pyrene	3.14		mg/kg	0.699	--	2
Dibenzo(a,h)anthracene	0.818		mg/kg	0.699	--	2
Benzo(ghi)perylene	2.82		mg/kg	0.699	--	2

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-18  
 Client ID: SB-3 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	71		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-21  
 Client ID: SB-3 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 10:12  
 Analyst: MEO  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	15.8	--	2
C19-C36 Aliphatics	215		mg/kg	15.8	--	2
C11-C22 Aromatics	164		mg/kg	15.8	--	2
C11-C22 Aromatics, Adjusted	147		mg/kg	15.8	--	2
Naphthalene	ND		mg/kg	0.788	--	2
2-Methylnaphthalene	ND		mg/kg	0.788	--	2
Acenaphthylene	ND		mg/kg	0.788	--	2
Acenaphthene	ND		mg/kg	0.788	--	2
Fluorene	ND		mg/kg	0.788	--	2
Phenanthrene	2.01		mg/kg	0.788	--	2
Anthracene	ND		mg/kg	0.788	--	2
Fluoranthene	2.78		mg/kg	0.788	--	2
Pyrene	2.46		mg/kg	0.788	--	2
Benzo(a)anthracene	1.33		mg/kg	0.788	--	2
Chrysene	1.55		mg/kg	0.788	--	2
Benzo(b)fluoranthene	1.30		mg/kg	0.788	--	2
Benzo(k)fluoranthene	1.44		mg/kg	0.788	--	2
Benzo(a)pyrene	1.39		mg/kg	0.788	--	2
Indeno(1,2,3-cd)Pyrene	1.05		mg/kg	0.788	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.788	--	2
Benzo(ghi)perylene	0.935		mg/kg	0.788	--	2

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-21  
 Client ID: SB-3 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	62		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	68		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-23  
 Client ID: SB-2 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 13:25  
 Analyst: MEO  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	14.6	--	2
C19-C36 Aliphatics	418		mg/kg	14.6	--	2
C11-C22 Aromatics	305		mg/kg	14.6	--	2
C11-C22 Aromatics, Adjusted	265		mg/kg	14.6	--	2
Naphthalene	ND		mg/kg	0.728	--	2
2-Methylnaphthalene	ND		mg/kg	0.728	--	2
Acenaphthylene	ND		mg/kg	0.728	--	2
Acenaphthene	ND		mg/kg	0.728	--	2
Fluorene	ND		mg/kg	0.728	--	2
Phenanthrene	5.13		mg/kg	0.728	--	2
Anthracene	1.24		mg/kg	0.728	--	2
Fluoranthene	7.38		mg/kg	0.728	--	2
Pyrene	6.52		mg/kg	0.728	--	2
Benzo(a)anthracene	3.49		mg/kg	0.728	--	2
Chrysene	3.46		mg/kg	0.728	--	2
Benzo(b)fluoranthene	2.96		mg/kg	0.728	--	2
Benzo(k)fluoranthene	2.89		mg/kg	0.728	--	2
Benzo(a)pyrene	3.21		mg/kg	0.728	--	2
Indeno(1,2,3-cd)Pyrene	2.11		mg/kg	0.728	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.728	--	2
Benzo(ghi)perylene	1.83		mg/kg	0.728	--	2

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-23

Date Collected: 09/04/19 10:05

Client ID: SB-2 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	62		40-140
2-Fluorobiphenyl	69		40-140
2-Bromonaphthalene	67		40-140

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 98,EPH-04-1.1  
**Analytical Date:** 09/14/19 04:30  
**Analyst:** MEO  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 09/11/19 00:54  
**Cleanup Method1:** EPH-04-1  
**Cleanup Date1:** 09/11/19

**Quality Control Information**

**Condition of sample received:**  
**Sample Temperature upon receipt:**  
**Sample Extraction method:**

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	7.07	--	1
C19-C36 Aliphatics	17.0		mg/kg	7.07	--	1
C11-C22 Aromatics	162		mg/kg	7.07	--	1
C11-C22 Aromatics, Adjusted	107		mg/kg	7.07	--	1
Naphthalene	ND		mg/kg	0.353	--	1
2-Methylnaphthalene	ND		mg/kg	0.353	--	1
Acenaphthylene	ND		mg/kg	0.353	--	1
Acenaphthene	0.930		mg/kg	0.353	--	1
Fluorene	0.689		mg/kg	0.353	--	1
Phenanthrene	7.08		mg/kg	0.353	--	1
Anthracene	1.44		mg/kg	0.353	--	1
Fluoranthene	10.3		mg/kg	0.353	--	1
Pyrene	8.71		mg/kg	0.353	--	1
Benzo(a)anthracene	5.54		mg/kg	0.353	--	1
Chrysene	5.61		mg/kg	0.353	--	1
Benzo(b)fluoranthene	4.36		mg/kg	0.353	--	1
Benzo(k)fluoranthene	4.34		mg/kg	0.353	--	1
Benzo(a)pyrene	4.63		mg/kg	0.353	--	1
Indeno(1,2,3-cd)Pyrene	2.77		mg/kg	0.353	--	1
Dibenzo(a,h)anthracene	0.775		mg/kg	0.353	--	1
Benzo(ghi)perylene	2.30		mg/kg	0.353	--	1



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-24  
 Client ID: SB-2 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:07  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	49		40-140
o-Terphenyl	46		40-140
2-Fluorobiphenyl	66		40-140
2-Bromonaphthalene	66		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-27 D  
 Client ID: SB-2 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/17/19 03:19  
 Analyst: MEO  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	319	--	40
C19-C36 Aliphatics	56800		mg/kg	319	--	40
C11-C22 Aromatics	1200		mg/kg	319	--	40
C11-C22 Aromatics, Adjusted	112		mg/kg	319	--	40
Naphthalene	ND		mg/kg	15.9	--	40
2-Methylnaphthalene	ND		mg/kg	15.9	--	40
Acenaphthylene	ND		mg/kg	15.9	--	40
Acenaphthene	ND		mg/kg	15.9	--	40
Fluorene	ND		mg/kg	15.9	--	40
Phenanthrene	24.0		mg/kg	15.9	--	40
Anthracene	ND		mg/kg	15.9	--	40
Fluoranthene	25.2		mg/kg	15.9	--	40
Pyrene	22.3		mg/kg	15.9	--	40
Benzo(a)anthracene	ND		mg/kg	15.9	--	40
Chrysene	ND		mg/kg	15.9	--	40
Benzo(b)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(k)fluoranthene	ND		mg/kg	15.9	--	40
Benzo(a)pyrene	ND		mg/kg	15.9	--	40
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	15.9	--	40
Dibenzo(a,h)anthracene	ND		mg/kg	15.9	--	40
Benzo(ghi)perylene	ND		mg/kg	15.9	--	40

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-27 D  
 Client ID: SB-2 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	85		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-44 D  
 Client ID: D-07 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/17/19 03:51  
 Analyst: MEO  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 09/11/19 00:54  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/11/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	141	--	20
C19-C36 Aliphatics	240		mg/kg	141	--	20
C11-C22 Aromatics	2140		mg/kg	141	--	20
C11-C22 Aromatics, Adjusted	133		mg/kg	141	--	20
Naphthalene	ND		mg/kg	7.07	--	20
2-Methylnaphthalene	ND		mg/kg	7.07	--	20
Acenaphthylene	ND		mg/kg	7.07	--	20
Acenaphthene	10.2		mg/kg	7.07	--	20
Fluorene	12.2		mg/kg	7.07	--	20
Phenanthrene	110		mg/kg	7.07	--	20
Anthracene	29.5		mg/kg	7.07	--	20
Fluoranthene	130		mg/kg	7.07	--	20
Pyrene	107		mg/kg	7.07	--	20
Benzo(a)anthracene	64.9		mg/kg	7.07	--	20
Chrysene	71.8		mg/kg	7.07	--	20
Benzo(b)fluoranthene	58.0		mg/kg	7.07	--	20
Benzo(k)fluoranthene	48.8		mg/kg	7.07	--	20
Benzo(a)pyrene	64.4		mg/kg	7.07	--	20
Indeno(1,2,3-cd)Pyrene	49.3		mg/kg	7.07	--	20
Dibenzo(a,h)anthracene	12.9		mg/kg	7.07	--	20
Benzo(ghi)perylene	44.4		mg/kg	7.07	--	20

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-44 D  
 Client ID: D-07 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

**NOT APPLICABLE**

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-45  
 Client ID: D-07 (7-9)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/14/19 18:13  
 Analyst: SR  
 Percent Solids: 78%

Extraction Method: EPA 3546  
 Extraction Date: 09/12/19 22:36  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/13/19

## Quality Control Information

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	8.58	--	1
C19-C36 Aliphatics	18.5		mg/kg	8.58	--	1
C11-C22 Aromatics	73.4		mg/kg	8.58	--	1
C11-C22 Aromatics, Adjusted	51.7		mg/kg	8.58	--	1
Naphthalene	ND		mg/kg	0.429	--	1
2-Methylnaphthalene	ND		mg/kg	0.429	--	1
Acenaphthylene	ND		mg/kg	0.429	--	1
Acenaphthene	1.66		mg/kg	0.429	--	1
Fluorene	ND		mg/kg	0.429	--	1
Phenanthrene	2.46		mg/kg	0.429	--	1
Anthracene	0.843		mg/kg	0.429	--	1
Fluoranthene	3.73		mg/kg	0.429	--	1
Pyrene	3.03		mg/kg	0.429	--	1
Benzo(a)anthracene	1.60		mg/kg	0.429	--	1
Chrysene	1.87		mg/kg	0.429	--	1
Benzo(b)fluoranthene	1.34		mg/kg	0.429	--	1
Benzo(k)fluoranthene	1.40		mg/kg	0.429	--	1
Benzo(a)pyrene	1.60		mg/kg	0.429	--	1
Indeno(1,2,3-cd)Pyrene	1.10		mg/kg	0.429	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.429	--	1
Benzo(ghi)perylene	1.04		mg/kg	0.429	--	1

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-45  
 Client ID: D-07 (7-9)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	58		40-140
o-Terphenyl	76		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	81		40-140

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-50 D  
 Client ID: SB-DUP-5  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/17/19 01:10  
 Analyst: MEO  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 09/12/19 22:36  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/13/19

**Quality Control Information**

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	43.6	--	6
C19-C36 Aliphatics	223		mg/kg	43.6	--	6
C11-C22 Aromatics	1160		mg/kg	43.6	--	6
C11-C22 Aromatics, Adjusted	712		mg/kg	43.6	--	6
Naphthalene	2.63		mg/kg	2.18	--	6
2-Methylnaphthalene	ND		mg/kg	2.18	--	6
Acenaphthylene	ND		mg/kg	2.18	--	6
Acenaphthene	5.69		mg/kg	2.18	--	6
Fluorene	6.74		mg/kg	2.18	--	6
Phenanthrene	61.8		mg/kg	2.18	--	6
Anthracene	15.7		mg/kg	2.18	--	6
Fluoranthene	79.0		mg/kg	2.18	--	6
Pyrene	66.4		mg/kg	2.18	--	6
Benzo(a)anthracene	37.2		mg/kg	2.18	--	6
Chrysene	38.3		mg/kg	2.18	--	6
Benzo(b)fluoranthene	30.8		mg/kg	2.18	--	6
Benzo(k)fluoranthene	27.4		mg/kg	2.18	--	6
Benzo(a)pyrene	31.6		mg/kg	2.18	--	6
Indeno(1,2,3-cd)Pyrene	21.3		mg/kg	2.18	--	6
Dibenzo(a,h)anthracene	6.06		mg/kg	2.18	--	6
Benzo(ghi)perylene	17.6		mg/kg	2.18	--	6



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-50 D  
 Client ID: SB-DUP-5  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	74		40-140
o-Terphenyl	250	Q	40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	81		40-140

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-55 D

Date Collected: 09/04/19 13:24

Client ID: E-06 (1-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 98,EPH-04-1.1

Extraction Date: 09/12/19 22:36

Analytical Date: 09/17/19 01:42

Cleanup Method1: EPH-04-1

Analyst: MEO

Cleanup Date1: 09/13/19

Percent Solids: 94%

## Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	35.0	--	5
C19-C36 Aliphatics	236		mg/kg	35.0	--	5
C11-C22 Aromatics	385		mg/kg	35.0	--	5
C11-C22 Aromatics, Adjusted	277		mg/kg	35.0	--	5
Naphthalene	ND		mg/kg	1.75	--	5
2-Methylnaphthalene	ND		mg/kg	1.75	--	5
Acenaphthylene	ND		mg/kg	1.75	--	5
Acenaphthene	ND		mg/kg	1.75	--	5
Fluorene	ND		mg/kg	1.75	--	5
Phenanthrene	12.0		mg/kg	1.75	--	5
Anthracene	3.43		mg/kg	1.75	--	5
Fluoranthene	19.5		mg/kg	1.75	--	5
Pyrene	17.1		mg/kg	1.75	--	5
Benzo(a)anthracene	9.22		mg/kg	1.75	--	5
Chrysene	10.4		mg/kg	1.75	--	5
Benzo(b)fluoranthene	8.87		mg/kg	1.75	--	5
Benzo(k)fluoranthene	7.56		mg/kg	1.75	--	5
Benzo(a)pyrene	9.54		mg/kg	1.75	--	5
Indeno(1,2,3-cd)Pyrene	7.12		mg/kg	1.75	--	5
Dibenzo(a,h)anthracene	1.88		mg/kg	1.75	--	5
Benzo(ghi)perylene	5.94		mg/kg	1.75	--	5

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-55 D  
 Client ID: E-06 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	47		40-140
o-Terphenyl	111		40-140
2-Fluorobiphenyl	79		40-140
2-Bromonaphthalene	80		40-140

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-56 D  
 Client ID: E-06 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 98,EPH-04-1.1  
 Analytical Date: 09/17/19 02:14  
 Analyst: MEO  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 09/12/19 22:36  
 Cleanup Method1: EPH-04-1  
 Cleanup Date1: 09/13/19

**Quality Control Information**

Condition of sample received:  
 Sample Temperature upon receipt:  
 Sample Extraction method:

Satisfactory  
 Received on Ice  
 Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Extractable Petroleum Hydrocarbons - Westborough Lab</b>						
C9-C18 Aliphatics	ND		mg/kg	161	--	20
C19-C36 Aliphatics	303		mg/kg	161	--	20
C11-C22 Aromatics	1500		mg/kg	161	--	20
C11-C22 Aromatics, Adjusted	857		mg/kg	161	--	20
Naphthalene	9		mg/kg	8.06	--	20
2-Methylnaphthalene	ND		mg/kg	8.06	--	20
Acenaphthylene	ND		mg/kg	8.06	--	20
Acenaphthene	13.7		mg/kg	8.06	--	20
Fluorene	24.1		mg/kg	8.06	--	20
Phenanthrene	145		mg/kg	8.06	--	20
Anthracene	40.6		mg/kg	8.06	--	20
Fluoranthene	125		mg/kg	8.06	--	20
Pyrene	94.0		mg/kg	8.06	--	20
Benzo(a)anthracene	46.4		mg/kg	8.06	--	20
Chrysene	42.9		mg/kg	8.06	--	20
Benzo(b)fluoranthene	25.0		mg/kg	8.06	--	20
Benzo(k)fluoranthene	28.2		mg/kg	8.06	--	20
Benzo(a)pyrene	28.4		mg/kg	8.06	--	20
Indeno(1,2,3-cd)Pyrene	13.8		mg/kg	8.06	--	20
Dibenzo(a,h)anthracene	ND		mg/kg	8.06	--	20
Benzo(ghi)perylene	10.2		mg/kg	8.06	--	20

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-56 D  
 Client ID: E-06 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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**Extractable Petroleum Hydrocarbons - Westborough Lab**

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

**NOT APPLICABLE**

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 98,EPH-04-1.1  
**Analytical Date:** 09/14/19 02:37  
**Analyst:** MEO

**Extraction Method:** EPA 3546  
**Extraction Date:** 09/11/19 00:54  
**Cleanup Method:** EPH-04-1  
**Cleanup Date:** 09/11/19

Parameter	Result	Qualifier	Units	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1				
C9-C18 Aliphatics	ND		mg/kg	6.50
C19-C36 Aliphatics	ND		mg/kg	6.50
C11-C22 Aromatics	ND		mg/kg	6.50
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.50
Naphthalene	ND		mg/kg	0.325
2-Methylnaphthalene	ND		mg/kg	0.325
Acenaphthylene	ND		mg/kg	0.325
Acenaphthene	ND		mg/kg	0.325
Fluorene	ND		mg/kg	0.325
Phenanthrene	ND		mg/kg	0.325
Anthracene	ND		mg/kg	0.325
Fluoranthene	ND		mg/kg	0.325
Pyrene	ND		mg/kg	0.325
Benzo(a)anthracene	ND		mg/kg	0.325
Chrysene	ND		mg/kg	0.325
Benzo(b)fluoranthene	ND		mg/kg	0.325
Benzo(k)fluoranthene	ND		mg/kg	0.325
Benzo(a)pyrene	ND		mg/kg	0.325
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.325
Benzo(e)anthracene	ND		mg/kg	0.325
Benzo(ghi)perylene	ND		mg/kg	0.325

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 09/14/19 02:37  
Analyst: MEO

Extraction Method: EPA 3546  
Extraction Date: 09/11/19 00:54  
Cleanup Method: EPH-04-1  
Cleanup Date: 09/11/19

Parameter	Result	Qualifier	Units	L	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 11-12,15,17-18,21,23-24,27,44,101,105,113,115,138-140 Batch: WG1282535-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	69		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	74		40-140

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 09/14/19 13:22  
Analyst: SR

Extraction Method: EPA 3546  
Extraction Date: 09/12/19 22:36  
Cleanup Method: EPH-04-1  
Cleanup Date: 09/13/19

Parameter	Result	Qualifier	Units	U	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45, 50, 55, 56, 143 Batch: WG1283558-1					
C9-C18 Aliphatics	ND		mg/kg	6.43	--
C19-C36 Aliphatics	ND		mg/kg	6.43	--
C11-C22 Aromatics	ND		mg/kg	6.43	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.43	--
Naphthalene	ND		mg/kg	0.322	--
2-Methylnaphthalene	ND		mg/kg	0.322	--
Acenaphthylene	ND		mg/kg	0.322	--
Acenaphthene	ND		mg/kg	0.322	--
Fluorene	ND		mg/kg	0.322	--
Phenanthrene	ND		mg/kg	0.322	--
Anthracene	ND		mg/kg	0.322	--
Fluoranthene	ND		mg/kg	0.322	--
Pyrene	ND		mg/kg	0.322	--
Benzo(a)anthracene	ND		mg/kg	0.322	--
Chrysene	ND		mg/kg	0.322	--
Benzo(b)fluoranthene	ND		mg/kg	0.322	--
Benzo(k)fluoranthene	ND		mg/kg	0.322	--
Benzo(a)pyrene	ND		mg/kg	0.322	--
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.322	--
Benzo(e)anthracene	ND		mg/kg	0.322	--
Benzo(ghi)perylene	ND		mg/kg	0.322	--



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 98,EPH-04-1.1  
Analytical Date: 09/14/19 13:22  
Analyst: SR

Extraction Method: EPA 3546  
Extraction Date: 09/12/19 22:36  
Cleanup Method: EPH-04-1  
Cleanup Date: 09/13/19

Parameter	Result	Qualifier	Units	L	MJL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 45, 50, 55, 56, 143 Batch: WG1283558-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	63		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	83		40-140
2-Bromonaphthalene	83		40-140

**NOT APPLICABLE**

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,100,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
C9-C18 Aliphatics	56		68		40-140	19		25
C19-C36 Aliphatics	64		79		40-140	21		25
C11-C22 Aromatics	54		58		40-140	7		25
Naphthalene	45		48		40-140	6		25
2-Methylnaphthalene	44		47		40-140	7		25
Acenaphthylene	47		51		40-140	8		25
Acenaphthene	51		56		40-140	9		25
Fluorene	49		55		40-140	12		25
Phenanthrene	54		60		40-140	11		25
Anthracene	54		59		40-140	9		25
Fluoranthene	54		58		40-140	7		25
Pyrene	56		60		40-140	7		25
Benzo(a)anthracene	54		58		40-140	7		25
Chrysene	55		58		40-140	5		25
Benzo(b)fluoranthene	53		57		40-140	7		25
Benzo(k)fluoranthene	53		56		40-140	6		25
Benzo(a)pyrene	53		55		40-140	6		25
Indeno(1,2,3-cd)Pyrene	50		52		40-140	4		25
Dibenzo(a,h)anthracene	51		52		40-140	2		25
Benzo(ghi)perylene	47		48		40-140	2		25
Nonane (C9)	44		54		30-140	20		25
Decane (C10)	49		59		40-140	19		25

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44,100,105,113,115,138-140 Batch: WG1282535-2 WG1282535-3								
Dodecane (C12)	50		60		40-140	18		25
Tetradecane (C14)	50		62		40-140	21		25
Hexadecane (C16)	53		68		40-140	25		25
Octadecane (C18)	57		71		40-140	22		25
Nonadecane (C19)	57		71		40-140	22		25
Eicosane (C20)	59		72		40-140	20		25
Docosane (C22)	60		73		40-140	20		25
Tetracosane (C24)	61		74		40-140	19		25
Hexacosane (C26)	62		77		40-140	22		25
Octacosane (C28)	64		78		40-140	20		25
Triacontane (C30)	65		80		40-140	21		25
Hexatriacontane (C36)	66		79		40-140	18		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	57		68		40-140
o-Terphenyl	52		57		40-140
2-Fluorobiphenyl	73		66		40-140
2-Bromonaphthalene	72		66		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1283558-2 WG1283558-3								
C9-C18 Aliphatics	57		75		40-140	27	Q	25
C19-C36 Aliphatics	70		79		40-140	12		25
C11-C22 Aromatics	77		91		40-140	17		25
Naphthalene	54		72		40-140	29	Q	25
2-Methylnaphthalene	55		73		40-140	28	Q	25
Acenaphthylene	62		81		40-140	27	Q	25
Acenaphthene	63		80		40-140	27	Q	25
Fluorene	69		86		40-140	22		25
Phenanthrene	76		89		40-140	16		25
Anthracene	79		92		40-140	15		25
Fluoranthene	80		92		40-140	14		25
Pyrene	82		94		40-140	14		25
Benzo(a)anthracene	81		92		40-140	13		25
Chrysene	83		91		40-140	9		25
Benzo(b)fluoranthene	82		94		40-140	14		25
Benzo(k)fluoranthene	82		91		40-140	10		25
Benzo(a)pyrene	80		90		40-140	12		25
Indeno(1,2,3-cd)Pyrene	80		92		40-140	14		25
Dibenzo(a,h)anthracene	76		91		40-140	9		25
Benzo(ghi)perylene	76		85		40-140	11		25
Nonane (C9)	45		63		30-140	33	Q	25
Decane (C10)	50		68		40-140	31	Q	25
Dodecane (C12)	49		67		40-140	31	Q	25

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 45,50,55-56,143 Batch: WG1234558-2 WG1283558-3								
Tetradecane (C14)	51		69		40-140	30	Q	25
Hexadecane (C16)	58		73		40-140	23		25
Octadecane (C18)	66		77		40-140	15		25
Nonadecane (C19)	65		75		40-140	14		25
Eicosane (C20)	67		77		40-140	14		25
Docosane (C22)	68		78		40-140	14		25
Tetracosane (C24)	67		77		40-140	14		25
Hexacosane (C26)	68		77		40-140	12		25
Octacosane (C28)	68		77		40-140	12		25
Triacontane (C30)	69		77		40-140	11		25
Hexatriacontane (C36)	72		81		40-140	12		25

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Chloro-Octadecane	59		67		40-140
o-Terphenyl	72		83		40-140
2-Fluorobiphenyl	74		81		40-140
2-Bromonaphthalene	74		82		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

**PCBS**

**NOT APPLICABLE**

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-01  
**Client ID:** AS-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Solid  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:20  
**Analyst:** AWS  
**Percent Solids:** 100%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 10:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.8	--	1	A
Aroclor 1221	ND		ug/kg	54.8	--	1	A
Aroclor 1232	ND		ug/kg	54.8	--	1	A
Aroclor 1242	ND		ug/kg	54.8	--	1	A
Aroclor 1248	ND		ug/kg	36.6	--	1	A
Aroclor 1254	ND		ug/kg	54.8	--	1	A
Aroclor 1260	38.4		ug/kg	36.6	--	1	B
Aroclor 1262	ND		ug/kg	18.3	--	1	A
Aroclor 1268	ND		ug/kg	18.3	--	1	A
PCBs, Total	38.4		ug/kg	18.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	54		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-02      D  
**Client ID:** AS-6  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:15  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Solid  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/14/19 00:29  
**Analyst:** AWS  
**Percent Solids:** 100%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 10:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	590	--	10	A
Aroclor 1221	ND		ug/kg	590	--	10	A
Aroclor 1232	ND		ug/kg	590	--	10	A
Aroclor 1242	ND		ug/kg	590	--	10	A
Aroclor 1248	ND		ug/kg	394	--	10	A
Aroclor 1254	ND		ug/kg	590	--	10	A
Aroclor 1260	7100		ug/kg	394	--	10	B
Aroclor 1262	ND		ug/kg	197	--	10	A
Aroclor 1268	ND		ug/kg	197	--	10	A
PCBs, Total	7100		ug/kg	197	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-03  
**Client ID:** AS-7  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Solid  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:32  
**Analyst:** AWS  
**Percent Solids:** 99%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 10:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.7	--	1	A
Aroclor 1221	ND		ug/kg	54.7	--	1	A
Aroclor 1232	ND		ug/kg	54.7	--	1	A
Aroclor 1242	ND		ug/kg	54.7	--	1	A
Aroclor 1248	ND		ug/kg	36.5	--	1	B
Aroclor 1254	ND		ug/kg	54.7	--	1	A
Aroclor 1260	ND		ug/kg	36.5	--	1	B
Aroclor 1262	ND		ug/kg	18.2	--	1	A
Aroclor 1268	ND		ug/kg	18.2	--	1	A
PCBs, Total	ND		ug/kg	18.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	59		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-04  
**Client ID:** AS-8  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Solid  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:43  
**Analyst:** AWS  
**Percent Solids:** 100%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 10:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	55.6	--	1	A
Aroclor 1221	ND		ug/kg	55.6	--	1	A
Aroclor 1232	ND		ug/kg	55.6	--	1	A
Aroclor 1242	ND		ug/kg	55.6	--	1	A
Aroclor 1248	ND		ug/kg	37.0	--	1	A
Aroclor 1254	ND		ug/kg	55.6	--	1	A
Aroclor 1260	ND		ug/kg	37.0	--	1	B
Aroclor 1262	ND		ug/kg	18.5	--	1	A
Aroclor 1268	ND		ug/kg	18.5	--	1	A
PCBs, Total	ND		ug/kg	18.5	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	51		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-05  
 Client ID: AS-1  
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:45  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Solid  
 Analytical Method: 97,8082A  
 Analytical Date: 09/16/19 15:55  
 Analyst: AWS  
 Percent Solids: 99%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	56.0	--	1	A
Aroclor 1221	ND		ug/kg	56.0	--	1	A
Aroclor 1232	ND		ug/kg	56.0	--	1	A
Aroclor 1242	ND		ug/kg	56.0	--	1	A
Aroclor 1248	ND		ug/kg	37.3	--	1	A
Aroclor 1254	ND		ug/kg	56.0	--	1	A
Aroclor 1260	986		ug/kg	37.3	--	1	B
Aroclor 1262	ND		ug/kg	18.7	--	1	A
Aroclor 1268	ND		ug/kg	18.7	--	1	A
PCBs, Total	986		ug/kg	18.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	60		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-06  
 Client ID: AS-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:50  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Solid  
 Analytical Method: 97,8082A  
 Analytical Date: 09/16/19 16:07  
 Analyst: AWS  
 Percent Solids: 100%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	51.5	--	1	A
Aroclor 1221	ND		ug/kg	51.5	--	1	A
Aroclor 1232	ND		ug/kg	51.5	--	1	A
Aroclor 1242	ND		ug/kg	51.5	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.5	--	1	A
Aroclor 1260	508		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	508		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	48		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-07  
 Client ID: AS-3  
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 11:55  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Solid  
 Analytical Method: 97,8082A  
 Analytical Date: 09/16/19 16:19  
 Analyst: AWS  
 Percent Solids: 100%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.2	--	1	A
Aroclor 1221	ND		ug/kg	57.2	--	1	A
Aroclor 1232	ND		ug/kg	57.2	--	1	A
Aroclor 1242	ND		ug/kg	57.2	--	1	A
Aroclor 1248	ND		ug/kg	38.1	--	1	A
Aroclor 1254	ND		ug/kg	57.2	--	1	A
Aroclor 1260	184		ug/kg	38.1	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	184		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	43		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-08  
 Client ID: AS-4  
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 12:05  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Solid  
 Analytical Method: 97,8082A  
 Analytical Date: 09/16/19 16:31  
 Analyst: AWS  
 Percent Solids: 100%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	51.4	--	1	A
Aroclor 1221	ND		ug/kg	51.4	--	1	A
Aroclor 1232	ND		ug/kg	51.4	--	1	A
Aroclor 1242	ND		ug/kg	51.4	--	1	A
Aroclor 1248	ND		ug/kg	34.3	--	1	A
Aroclor 1254	ND		ug/kg	51.4	--	1	A
Aroclor 1260	354		ug/kg	34.3	--	1	B
Aroclor 1262	ND		ug/kg	17.2	--	1	A
Aroclor 1268	ND		ug/kg	17.2	--	1	A
PCBs, Total	354		ug/kg	17.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	56		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-09  
 Client ID: AS-DUP-1  
 Sample Location: LAWRENCE, MA

Date Collected: 09/03/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Solid  
 Analytical Method: 97,8082A  
 Analytical Date: 09/12/19 02:38  
 Analyst: WR  
 Percent Solids: 100%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.0	--	1	A
Aroclor 1221	ND		ug/kg	57.0	--	1	A
Aroclor 1232	ND		ug/kg	57.0	--	1	A
Aroclor 1242	ND		ug/kg	57.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	57.0	--	1	A
Aroclor 1260	1610		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	19.0	--	1	A
Aroclor 1268	ND		ug/kg	19.0	--	1	A
PCBs, Total	1610		ug/kg	19.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	82		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-10  
**Client ID:** SB-4 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 05:07  
**Analyst:** KB  
**Percent Solids:** 96%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	53.3		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	53.3		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	85		30-150	A



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-11  
**Client ID:** SB-4 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:50  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 05:18  
**Analyst:** KB  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	87		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-12  
**Client ID:** SB-4 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 05:30  
**Analyst:** KB  
**Percent Solids:** 93%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-13  
**Client ID:** SB-4 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 05:42  
**Analyst:** KB  
**Percent Solids:** 87%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	37.5	--	1	A
Aroclor 1221	ND		ug/kg	37.5	--	1	A
Aroclor 1232	ND		ug/kg	37.5	--	1	A
Aroclor 1242	ND		ug/kg	37.5	--	1	A
Aroclor 1248	ND		ug/kg	37.5	--	1	A
Aroclor 1254	ND		ug/kg	37.5	--	1	A
Aroclor 1260	ND		ug/kg	37.5	--	1	A
Aroclor 1262	ND		ug/kg	37.5	--	1	A
Aroclor 1268	ND		ug/kg	37.5	--	1	A
PCBs, Total	ND		ug/kg	37.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 00:58  
**Analyst:** AWS  
**Percent Solids:** 75%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	104	--	1	A
Aroclor 1221	ND		ug/kg	104	--	1	A
Aroclor 1232	ND		ug/kg	104	--	1	A
Aroclor 1242	ND		ug/kg	104	--	1	A
Aroclor 1248	ND		ug/kg	104	--	1	A
Aroclor 1254	ND		ug/kg	104	--	1	A
Aroclor 1260	ND		ug/kg	104	--	1	A
Aroclor 1262	ND		ug/kg	104	--	1	A
Aroclor 1268	ND		ug/kg	104	--	1	A
PCBs, Total	ND		ug/kg	104	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	27	Q	30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-16 D  
**Client ID:** SB-3 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/15/19 15:13  
**Analyst:** AWS  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	170	--	5	A
Aroclor 1221	ND		ug/kg	170	--	5	A
Aroclor 1232	ND		ug/kg	170	--	5	A
Aroclor 1242	ND		ug/kg	170	--	5	A
Aroclor 1248	ND		ug/kg	170	--	5	A
Aroclor 1254	444		ug/kg	170	--	5	A
Aroclor 1260	ND		ug/kg	170	--	5	A
Aroclor 1262	ND		ug/kg	170	--	5	A
Aroclor 1268	ND		ug/kg	170	--	5	A
PCBs, Total	444		ug/kg	170	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	55		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-17  
**Client ID:** SB-3 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 23:31  
**Analyst:** AWS  
**Percent Solids:** 94%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	72.0		ug/kg	35.0	--	1	B
Aroclor 1260	38.3	IP	ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	110		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	41		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-18  
**Client ID:** SB-3 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 23:44  
**Analyst:** AWS  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.4	--	1	A
Aroclor 1221	ND		ug/kg	34.4	--	1	A
Aroclor 1232	ND		ug/kg	34.4	--	1	A
Aroclor 1242	ND		ug/kg	34.4	--	1	A
Aroclor 1248	ND		ug/kg	34.4	--	1	A
Aroclor 1254	ND		ug/kg	34.4	--	1	A
Aroclor 1260	ND		ug/kg	34.4	--	1	B
Aroclor 1262	ND		ug/kg	34.4	--	1	A
Aroclor 1268	ND		ug/kg	34.4	--	1	A
PCBs, Total	ND		ug/kg	34.4	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-19  
**Client ID:** SB-3 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:35  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 05:54  
**Analyst:** KB  
**Percent Solids:** 85%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.6	--	1	A
Aroclor 1221	ND		ug/kg	38.6	--	1	A
Aroclor 1232	ND		ug/kg	38.6	--	1	A
Aroclor 1242	ND		ug/kg	38.6	--	1	A
Aroclor 1248	ND		ug/kg	38.6	--	1	A
Aroclor 1254	ND		ug/kg	38.6	--	1	A
Aroclor 1260	89.6		ug/kg	38.6	--	1	B
Aroclor 1262	ND		ug/kg	38.6	--	1	A
Aroclor 1268	ND		ug/kg	38.6	--	1	A
PCBs, Total	89.6		ug/kg	38.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	90		30-150	A



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-22  
**Client ID:** SB-2 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 23:56  
**Analyst:** AWS  
**Percent Solids:** 97%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	40.3		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	B
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	40.3		ug/kg	33.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	35		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 00:09  
**Analyst:** AWS  
**Percent Solids:** 90%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.0	--	1	A
Aroclor 1221	ND		ug/kg	35.0	--	1	A
Aroclor 1232	ND		ug/kg	35.0	--	1	A
Aroclor 1242	ND		ug/kg	35.0	--	1	A
Aroclor 1248	ND		ug/kg	35.0	--	1	A
Aroclor 1254	ND		ug/kg	35.0	--	1	A
Aroclor 1260	83.0		ug/kg	35.0	--	1	B
Aroclor 1262	ND		ug/kg	35.0	--	1	A
Aroclor 1268	ND		ug/kg	35.0	--	1	A
PCBs, Total	83.0		ug/kg	35.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	54		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	36		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 00:21  
**Analyst:** AWS  
**Percent Solids:** 89%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.3	--	1	A
Aroclor 1221	ND		ug/kg	36.3	--	1	A
Aroclor 1232	ND		ug/kg	36.3	--	1	A
Aroclor 1242	ND		ug/kg	36.3	--	1	A
Aroclor 1248	ND		ug/kg	36.3	--	1	A
Aroclor 1254	ND		ug/kg	36.3	--	1	A
Aroclor 1260	ND		ug/kg	36.3	--	1	B
Aroclor 1262	ND		ug/kg	36.3	--	1	A
Aroclor 1268	ND		ug/kg	36.3	--	1	A
PCBs, Total	ND		ug/kg	36.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	31		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-25  
**Client ID:** SB-2 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:15  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 00:46  
**Analyst:** AWS  
**Percent Solids:** 86%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	ND		ug/kg	38.0	--	1	A
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	ND		ug/kg	38.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	33		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-32      D  
**Client ID:** E-08 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 11:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/15/19 15:01  
**Analyst:** AWS  
**Percent Solids:** 87%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/08/19 17:20  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	748	--	20	A
Aroclor 1221	ND		ug/kg	748	--	20	A
Aroclor 1232	ND		ug/kg	748	--	20	A
Aroclor 1242	ND		ug/kg	748	--	20	A
Aroclor 1248	782		ug/kg	748	--	20	B
Aroclor 1254	ND		ug/kg	748	--	20	A
Aroclor 1260	6920		ug/kg	748	--	20	B
Aroclor 1262	ND		ug/kg	748	--	20	A
Aroclor 1268	ND		ug/kg	748	--	20	A
PCBs, Total	770		ug/kg	748	--	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-33  
**Client ID:** E-08 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 11:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 06:06  
**Analyst:** KB  
**Percent Solids:** 93%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.6	--	1	A
Aroclor 1221	ND		ug/kg	35.6	--	1	A
Aroclor 1232	ND		ug/kg	35.6	--	1	A
Aroclor 1242	ND		ug/kg	35.6	--	1	A
Aroclor 1248	ND		ug/kg	35.6	--	1	A
Aroclor 1254	ND		ug/kg	35.6	--	1	A
Aroclor 1260	ND		ug/kg	35.6	--	1	A
Aroclor 1262	ND		ug/kg	35.6	--	1	A
Aroclor 1268	ND		ug/kg	35.6	--	1	A
PCBs, Total	ND		ug/kg	35.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	113		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-40 D  
**Client ID:** D-07 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:12  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 16:50  
**Analyst:** WR  
**Percent Solids:** 93%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	3460	--	100	A
Aroclor 1221	ND		ug/kg	3460	--	100	A
Aroclor 1232	ND		ug/kg	3460	--	100	A
Aroclor 1242	ND		ug/kg	3460	--	100	A
Aroclor 1248	11100		ug/kg	3460	--	100	B
Aroclor 1254	6220		ug/kg	3460	--	100	A
Aroclor 1260	ND		ug/kg	3460	--	100	B
Aroclor 1262	ND		ug/kg	3460	--	100	A
Aroclor 1268	ND		ug/kg	3460	--	100	A
PCBs, Total	17300		ug/kg	3460	--	100	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-41  
**Client ID:** D-07 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:14  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 06:29  
**Analyst:** KB  
**Percent Solids:** 92%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.7	--	1	A
Aroclor 1221	ND		ug/kg	35.7	--	1	A
Aroclor 1232	ND		ug/kg	35.7	--	1	A
Aroclor 1242	ND		ug/kg	35.7	--	1	A
Aroclor 1248	ND		ug/kg	35.7	--	1	A
Aroclor 1254	102		ug/kg	35.7	--	1	B
Aroclor 1260	57.7		ug/kg	35.7	--	1	B
Aroclor 1262	ND		ug/kg	35.7	--	1	A
Aroclor 1268	ND		ug/kg	35.7	--	1	A
PCBs, Total	16		ug/kg	35.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	120		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	76		30-150	A



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-45  
**Client ID:** D-07 (7-9)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 06:41  
**Analyst:** KB  
**Percent Solids:** 78%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	42.4	--	1	A
Aroclor 1221	ND		ug/kg	42.4	--	1	A
Aroclor 1232	ND		ug/kg	42.4	--	1	A
Aroclor 1242	ND		ug/kg	42.4	--	1	A
Aroclor 1248	ND		ug/kg	42.4	--	1	A
Aroclor 1254	ND		ug/kg	42.4	--	1	A
Aroclor 1260	ND		ug/kg	42.4	--	1	A
Aroclor 1262	ND		ug/kg	42.4	--	1	A
Aroclor 1268	ND		ug/kg	42.4	--	1	A
PCBs, Total	ND		ug/kg	42.4	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	86		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-51 D  
**Client ID:** E-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:22  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 16:38  
**Analyst:** WR  
**Percent Solids:** 96%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	337	--	10	A
Aroclor 1221	ND		ug/kg	337	--	10	A
Aroclor 1232	ND		ug/kg	337	--	10	A
Aroclor 1242	ND		ug/kg	337	--	10	A
Aroclor 1248	2950		ug/kg	337	--	10	B
Aroclor 1254	1160		ug/kg	337	--	10	B
Aroclor 1260	475		ug/kg	337	--	10	B
Aroclor 1262	ND		ug/kg	337	--	10	A
Aroclor 1268	ND		ug/kg	337	--	10	A
PCBs, Total	459		ug/kg	337	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-52  
**Client ID:** E-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:26  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/11/19 07:05  
**Analyst:** KB  
**Percent Solids:** 90%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 11:55  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	192		ug/kg	36.2	--	1	B
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	54.4		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	24		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	163	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	118		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-56  
**Client ID:** E-06 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:35  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 02:50  
**Analyst:** WR  
**Percent Solids:** 79%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	41.1	--	1	A
Aroclor 1221	ND		ug/kg	41.1	--	1	A
Aroclor 1232	ND		ug/kg	41.1	--	1	A
Aroclor 1242	ND		ug/kg	41.1	--	1	A
Aroclor 1248	ND		ug/kg	41.1	--	1	B
Aroclor 1254	ND		ug/kg	41.1	--	1	A
Aroclor 1260	ND		ug/kg	41.1	--	1	A
Aroclor 1262	ND		ug/kg	41.1	--	1	A
Aroclor 1268	ND		ug/kg	41.1	--	1	A
PCBs, Total	ND		ug/kg	41.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	103		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-57 D  
 Client ID: E-05 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:10  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 09/13/19 21:52  
 Analyst: AWS  
 Percent Solids: 91%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 14:15  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	712	--	20	A
Aroclor 1221	ND		ug/kg	712	--	20	A
Aroclor 1232	ND		ug/kg	712	--	20	A
Aroclor 1242	ND		ug/kg	712	--	20	A
Aroclor 1248	7870		ug/kg	712	--	20	A
Aroclor 1254	ND		ug/kg	712	--	20	A
Aroclor 1260	1400		ug/kg	712	--	20	B
Aroclor 1262	ND		ug/kg	712	--	20	A
Aroclor 1268	ND		ug/kg	712	--	20	A
PCBs, Total	927		ug/kg	712	--	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-58  
**Client ID:** E-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:12  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 03:15  
**Analyst:** WR  
**Percent Solids:** 87%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	37.7	--	1	A
Aroclor 1221	ND		ug/kg	37.7	--	1	A
Aroclor 1232	ND		ug/kg	37.7	--	1	A
Aroclor 1242	ND		ug/kg	37.7	--	1	A
Aroclor 1248	ND		ug/kg	37.7	--	1	B
Aroclor 1254	ND		ug/kg	37.7	--	1	A
Aroclor 1260	ND		ug/kg	37.7	--	1	A
Aroclor 1262	ND		ug/kg	37.7	--	1	A
Aroclor 1268	ND		ug/kg	37.7	--	1	A
PCBs, Total	ND		ug/kg	37.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	82		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-61 D  
**Client ID:** SB-DUP-6  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 22:04  
**Analyst:** AWS  
**Percent Solids:** 91%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	702	--	20	A
Aroclor 1221	ND		ug/kg	702	--	20	A
Aroclor 1232	ND		ug/kg	702	--	20	A
Aroclor 1242	ND		ug/kg	702	--	20	A
Aroclor 1248	4930		ug/kg	702	--	20	B
Aroclor 1254	ND		ug/kg	702	--	20	A
Aroclor 1260	1070		ug/kg	702	--	20	B
Aroclor 1262	ND		ug/kg	702	--	20	A
Aroclor 1268	ND		ug/kg	702	--	20	A
PCBs, Total	600		ug/kg	702	--	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-66 D  
 Client ID: D-09 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 14:50  
 Date Received: 09/06/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 97,8082A  
 Analytical Date: 09/13/19 22:16  
 Analyst: AWS  
 Percent Solids: 88%

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 14:15  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	745	--	20	A
Aroclor 1221	ND		ug/kg	745	--	20	A
Aroclor 1232	ND		ug/kg	745	--	20	A
Aroclor 1242	ND		ug/kg	745	--	20	A
Aroclor 1248	ND		ug/kg	745	--	20	A
Aroclor 1254	ND		ug/kg	745	--	20	A
Aroclor 1260	5650		ug/kg	745	--	20	B
Aroclor 1262	ND		ug/kg	745	--	20	A
Aroclor 1268	ND		ug/kg	745	--	20	A
PCBs, Total	5650		ug/kg	745	--	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-67 D  
**Client ID:** D-09 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:53  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/17/19 16:22  
**Analyst:** AWS  
**Percent Solids:** 75%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	441	--	10	A
Aroclor 1221	ND		ug/kg	441	--	10	A
Aroclor 1232	ND		ug/kg	441	--	10	A
Aroclor 1242	ND		ug/kg	441	--	10	A
Aroclor 1248	ND		ug/kg	441	--	10	A
Aroclor 1254	ND		ug/kg	441	--	10	A
Aroclor 1260	ND		ug/kg	441	--	10	A
Aroclor 1262	ND		ug/kg	441	--	10	A
Aroclor 1268	850		ug/kg	441	--	10	B
PCBs, Total	185		ug/kg	441	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-74  
**Client ID:** B-07 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 15:27  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 04:04  
**Analyst:** WR  
**Percent Solids:** 91%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.0	--	1	A
Aroclor 1221	ND		ug/kg	36.0	--	1	A
Aroclor 1232	ND		ug/kg	36.0	--	1	A
Aroclor 1242	ND		ug/kg	36.0	--	1	A
Aroclor 1248	45.5		ug/kg	36.0	--	1	B
Aroclor 1254	208		ug/kg	36.0	--	1	B
Aroclor 1260	128		ug/kg	36.0	--	1	B
Aroclor 1262	ND		ug/kg	36.0	--	1	A
Aroclor 1268	ND		ug/kg	36.0	--	1	A
PCBs, Total	38.2		ug/kg	36.0	--	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	60		30-150	A
Decachlorobiphenyl	81		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-75  
**Client ID:** B-07 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 15:29  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 04:16  
**Analyst:** WR  
**Percent Solids:** 83%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.2	--	1	A
Aroclor 1221	ND		ug/kg	38.2	--	1	A
Aroclor 1232	ND		ug/kg	38.2	--	1	A
Aroclor 1242	ND		ug/kg	38.2	--	1	A
Aroclor 1248	ND		ug/kg	38.2	--	1	A
Aroclor 1254	ND		ug/kg	38.2	--	1	A
Aroclor 1260	ND		ug/kg	38.2	--	1	A
Aroclor 1262	ND		ug/kg	38.2	--	1	A
Aroclor 1268	ND		ug/kg	38.2	--	1	B
PCBs, Total	ND		ug/kg	38.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	104		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-86 D  
**Client ID:** C-08 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:08  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 22:40  
**Analyst:** AWS  
**Percent Solids:** 87%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	368	--	10	A
Aroclor 1221	ND		ug/kg	368	--	10	A
Aroclor 1232	ND		ug/kg	368	--	10	A
Aroclor 1242	ND		ug/kg	368	--	10	A
Aroclor 1248	ND		ug/kg	368	--	10	A
Aroclor 1254	ND		ug/kg	368	--	10	A
Aroclor 1260	3500		ug/kg	368	--	10	B
Aroclor 1262	ND		ug/kg	368	--	10	A
Aroclor 1268	ND		ug/kg	368	--	10	A
PCBs, Total	3500		ug/kg	368	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-87  
**Client ID:** C-08 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:11  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 04:53  
**Analyst:** WR  
**Percent Solids:** 78%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	42.6	--	1	A
Aroclor 1221	ND		ug/kg	42.6	--	1	A
Aroclor 1232	ND		ug/kg	42.6	--	1	A
Aroclor 1242	ND		ug/kg	42.6	--	1	A
Aroclor 1248	ND		ug/kg	42.6	--	1	A
Aroclor 1254	ND		ug/kg	42.6	--	1	A
Aroclor 1260	55.7		ug/kg	42.6	--	1	B
Aroclor 1262	ND		ug/kg	42.6	--	1	A
Aroclor 1268	57.0		ug/kg	42.6	--	1	B
PCBs, Total	112.7		ug/kg	42.6	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	153	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	138		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-90  
**Client ID:** SB-DUP-4  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/12/19 05:06  
**Analyst:** WR  
**Percent Solids:** 77%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	41.7	--	1	A
Aroclor 1221	ND		ug/kg	41.7	--	1	A
Aroclor 1232	ND		ug/kg	41.7	--	1	A
Aroclor 1242	ND		ug/kg	41.7	--	1	A
Aroclor 1248	ND		ug/kg	41.7	--	1	A
Aroclor 1254	ND		ug/kg	41.7	--	1	A
Aroclor 1260	47.3		ug/kg	41.7	--	1	B
Aroclor 1262	ND		ug/kg	41.7	--	1	A
Aroclor 1268	53.7		ug/kg	41.7	--	1	B
PCBs, Total	10		ug/kg	41.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	142		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-99      D  
**Client ID:** B-09 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:53  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/17/19 15:27  
**Analyst:** AWS  
**Percent Solids:** 96%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	335	--	10	A
Aroclor 1221	ND		ug/kg	335	--	10	A
Aroclor 1232	ND		ug/kg	335	--	10	A
Aroclor 1242	ND		ug/kg	335	--	10	A
Aroclor 1248	2790		ug/kg	335	--	10	B
Aroclor 1254	4040		ug/kg	335	--	10	B
Aroclor 1260	3360		ug/kg	335	--	10	B
Aroclor 1262	ND		ug/kg	335	--	10	A
Aroclor 1268	ND		ug/kg	335	--	10	A
PCBs, Total	10240		ug/kg	335	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-100 D  
**Client ID:** SB-DUP-3  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 22:52  
**Analyst:** AWS  
**Percent Solids:** 96%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	345	--	10	A
Aroclor 1221	ND		ug/kg	345	--	10	A
Aroclor 1232	ND		ug/kg	345	--	10	A
Aroclor 1242	ND		ug/kg	345	--	10	A
Aroclor 1248	2920		ug/kg	345	--	10	A
Aroclor 1254	4310		ug/kg	345	--	10	A
Aroclor 1260	3090		ug/kg	345	--	10	B
Aroclor 1262	ND		ug/kg	345	--	10	A
Aroclor 1268	ND		ug/kg	345	--	10	A
PCBs, Total	1030		ug/kg	345	--	10	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:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-102 D  
**Client ID:** B-09 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:55  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 23:04  
**Analyst:** AWS  
**Percent Solids:** 91%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	180	--	5	A
Aroclor 1221	ND		ug/kg	180	--	5	A
Aroclor 1232	ND		ug/kg	180	--	5	A
Aroclor 1242	ND		ug/kg	180	--	5	A
Aroclor 1248	640		ug/kg	180	--	5	A
Aroclor 1254	841		ug/kg	180	--	5	A
Aroclor 1260	1190		ug/kg	180	--	5	B
Aroclor 1262	ND		ug/kg	180	--	5	A
Aroclor 1268	ND		ug/kg	180	--	5	A
PCBs, Total	267		ug/kg	180	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	181	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	115		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-105 D  
**Client ID:** B-09 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:02  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 23:16  
**Analyst:** AWS  
**Percent Solids:** 92%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	173	--	5	A
Aroclor 1221	ND		ug/kg	173	--	5	A
Aroclor 1232	ND		ug/kg	173	--	5	A
Aroclor 1242	ND		ug/kg	173	--	5	A
Aroclor 1248	930		ug/kg	173	--	5	A
Aroclor 1254	1880		ug/kg	173	--	5	A
Aroclor 1260	1610		ug/kg	173	--	5	B
Aroclor 1262	ND		ug/kg	173	--	5	A
Aroclor 1268	ND		ug/kg	173	--	5	A
PCBs, Total	442		ug/kg	173	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	167	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	109		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-106  
**Client ID:** A-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:33  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 23:41  
**Analyst:** AWS  
**Percent Solids:** 97%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	A
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	70		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-107  
**Client ID:** A-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 23:29  
**Analyst:** AWS  
**Percent Solids:** 97%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	ND		ug/kg	33.8	--	1	A
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	B
PCBs, Total	ND		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-110  
**Client ID:** SB-DUP-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/13/19 23:53  
**Analyst:** AWS  
**Percent Solids:** 97%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	32.3	--	1	A
Aroclor 1221	ND		ug/kg	32.3	--	1	A
Aroclor 1232	ND		ug/kg	32.3	--	1	A
Aroclor 1242	ND		ug/kg	32.3	--	1	A
Aroclor 1248	ND		ug/kg	32.3	--	1	A
Aroclor 1254	ND		ug/kg	32.3	--	1	A
Aroclor 1260	ND		ug/kg	32.3	--	1	A
Aroclor 1262	ND		ug/kg	32.3	--	1	A
Aroclor 1268	ND		ug/kg	32.3	--	1	A
PCBs, Total	ND		ug/kg	32.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	83		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-111 D  
**Client ID:** B-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/14/19 00:05  
**Analyst:** AWS  
**Percent Solids:** 92%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/10/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/10/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	172	--	5	A
Aroclor 1221	ND		ug/kg	172	--	5	A
Aroclor 1232	ND		ug/kg	172	--	5	A
Aroclor 1242	ND		ug/kg	172	--	5	A
Aroclor 1248	1450		ug/kg	172	--	5	A
Aroclor 1254	2160		ug/kg	172	--	5	A
Aroclor 1260	570		ug/kg	172	--	5	B
Aroclor 1262	ND		ug/kg	172	--	5	A
Aroclor 1268	ND		ug/kg	172	--	5	A
PCBs, Total	418		ug/kg	172	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	79		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-112  
**Client ID:** B-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:51  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/14/19 00:17  
**Analyst:** AWS  
**Percent Solids:** 86%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:15  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/09/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/09/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	37.9	--	1	A
Aroclor 1221	ND		ug/kg	37.9	--	1	A
Aroclor 1232	ND		ug/kg	37.9	--	1	A
Aroclor 1242	ND		ug/kg	37.9	--	1	A
Aroclor 1248	ND		ug/kg	37.9	--	1	A
Aroclor 1254	ND		ug/kg	37.9	--	1	B
Aroclor 1260	ND		ug/kg	37.9	--	1	B
Aroclor 1262	ND		ug/kg	37.9	--	1	A
Aroclor 1268	ND		ug/kg	37.9	--	1	A
PCBs, Total	ND		ug/kg	37.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	79		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-115  
**Client ID:** B-05 (3-5)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:57  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 14:58  
**Analyst:** WR  
**Percent Solids:** 69%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	47.1	--	1	A
Aroclor 1221	ND		ug/kg	47.1	--	1	A
Aroclor 1232	ND		ug/kg	47.1	--	1	A
Aroclor 1242	ND		ug/kg	47.1	--	1	A
Aroclor 1248	ND		ug/kg	47.1	--	1	A
Aroclor 1254	ND		ug/kg	47.1	--	1	A
Aroclor 1260	ND		ug/kg	47.1	--	1	A
Aroclor 1262	ND		ug/kg	47.1	--	1	A
Aroclor 1268	ND		ug/kg	47.1	--	1	A
PCBs, Total	ND		ug/kg	47.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	81		30-150	A



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-117 D  
**Client ID:** C-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:12  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/17/19 15:15  
**Analyst:** AWS  
**Percent Solids:** 87%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	186	--	5	A
Aroclor 1221	ND		ug/kg	186	--	5	A
Aroclor 1232	ND		ug/kg	186	--	5	A
Aroclor 1242	ND		ug/kg	186	--	5	A
Aroclor 1248	ND		ug/kg	186	--	5	A
Aroclor 1254	ND		ug/kg	186	--	5	A
Aroclor 1260	2560		ug/kg	186	--	5	B
Aroclor 1262	ND		ug/kg	186	--	5	A
Aroclor 1268	ND		ug/kg	186	--	5	A
PCBs, Total	2560		ug/kg	186	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	145		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	120		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-118  
**Client ID:** C-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:15  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:23  
**Analyst:** WR  
**Percent Solids:** 86%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.0	--	1	A
Aroclor 1221	ND		ug/kg	38.0	--	1	A
Aroclor 1232	ND		ug/kg	38.0	--	1	A
Aroclor 1242	ND		ug/kg	38.0	--	1	A
Aroclor 1248	ND		ug/kg	38.0	--	1	A
Aroclor 1254	ND		ug/kg	38.0	--	1	A
Aroclor 1260	57.6		ug/kg	38.0	--	1	B
Aroclor 1262	ND		ug/kg	38.0	--	1	A
Aroclor 1268	ND		ug/kg	38.0	--	1	A
PCBs, Total	57.6		ug/kg	38.0	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	91		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-121  
**Client ID:** C-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:32  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:35  
**Analyst:** WR  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.1	--	1	A
Aroclor 1221	ND		ug/kg	34.1	--	1	A
Aroclor 1232	ND		ug/kg	34.1	--	1	A
Aroclor 1242	ND		ug/kg	34.1	--	1	A
Aroclor 1248	ND		ug/kg	34.1	--	1	A
Aroclor 1254	ND		ug/kg	34.1	--	1	A
Aroclor 1260	ND		ug/kg	34.1	--	1	B
Aroclor 1262	ND		ug/kg	34.1	--	1	A
Aroclor 1268	ND		ug/kg	34.1	--	1	A
PCBs, Total	ND		ug/kg	34.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	88		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-122  
**Client ID:** C-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:34  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 15:48  
**Analyst:** WR  
**Percent Solids:** 91%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.7	--	1	A
Aroclor 1221	ND		ug/kg	34.7	--	1	A
Aroclor 1232	ND		ug/kg	34.7	--	1	A
Aroclor 1242	ND		ug/kg	34.7	--	1	A
Aroclor 1248	ND		ug/kg	34.7	--	1	A
Aroclor 1254	ND		ug/kg	34.7	--	1	A
Aroclor 1260	ND		ug/kg	34.7	--	1	A
Aroclor 1262	ND		ug/kg	34.7	--	1	A
Aroclor 1268	ND		ug/kg	34.7	--	1	A
PCBs, Total	ND		ug/kg	34.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	89		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-125  
**Client ID:** A-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 12:12  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 16:00  
**Analyst:** WR  
**Percent Solids:** 93%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.2	--	1	A
Aroclor 1221	ND		ug/kg	35.2	--	1	A
Aroclor 1232	ND		ug/kg	35.2	--	1	A
Aroclor 1242	ND		ug/kg	35.2	--	1	A
Aroclor 1248	ND		ug/kg	35.2	--	1	A
Aroclor 1254	ND		ug/kg	35.2	--	1	A
Aroclor 1260	ND		ug/kg	35.2	--	1	A
Aroclor 1262	ND		ug/kg	35.2	--	1	A
Aroclor 1268	ND		ug/kg	35.2	--	1	A
PCBs, Total	ND		ug/kg	35.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	104		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-126  
**Client ID:** A-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 12:14  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 16:12  
**Analyst:** WR  
**Percent Solids:** 94%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.9	--	1	A
Aroclor 1221	ND		ug/kg	33.9	--	1	A
Aroclor 1232	ND		ug/kg	33.9	--	1	A
Aroclor 1242	ND		ug/kg	33.9	--	1	A
Aroclor 1248	ND		ug/kg	33.9	--	1	A
Aroclor 1254	ND		ug/kg	33.9	--	1	A
Aroclor 1260	ND		ug/kg	33.9	--	1	A
Aroclor 1262	ND		ug/kg	33.9	--	1	A
Aroclor 1268	ND		ug/kg	33.9	--	1	A
PCBs, Total	ND		ug/kg	33.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	158	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	137		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-129  
**Client ID:** E-02 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 16:24  
**Analyst:** WR  
**Percent Solids:** 94%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.8	--	1	A
Aroclor 1221	ND		ug/kg	33.8	--	1	A
Aroclor 1232	ND		ug/kg	33.8	--	1	A
Aroclor 1242	ND		ug/kg	33.8	--	1	A
Aroclor 1248	ND		ug/kg	33.8	--	1	A
Aroclor 1254	ND		ug/kg	33.8	--	1	A
Aroclor 1260	127		ug/kg	33.8	--	1	B
Aroclor 1262	ND		ug/kg	33.8	--	1	A
Aroclor 1268	ND		ug/kg	33.8	--	1	A
PCBs, Total	127		ug/kg	33.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	80		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-130  
**Client ID:** E-02 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:08  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 16:37  
**Analyst:** WR  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.6	--	1	A
Aroclor 1221	ND		ug/kg	33.6	--	1	A
Aroclor 1232	ND		ug/kg	33.6	--	1	A
Aroclor 1242	ND		ug/kg	33.6	--	1	A
Aroclor 1248	ND		ug/kg	33.6	--	1	A
Aroclor 1254	ND		ug/kg	33.6	--	1	A
Aroclor 1260	ND		ug/kg	33.6	--	1	A
Aroclor 1262	ND		ug/kg	33.6	--	1	A
Aroclor 1268	ND		ug/kg	33.6	--	1	A
PCBs, Total	ND		ug/kg	33.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	89		30-150	A

NOT APPLICABLE





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-137  
**Client ID:** SB-1 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:33  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 16:49  
**Analyst:** WR  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.2	--	1	A
Aroclor 1221	ND		ug/kg	34.2	--	1	A
Aroclor 1232	ND		ug/kg	34.2	--	1	A
Aroclor 1242	ND		ug/kg	34.2	--	1	A
Aroclor 1248	ND		ug/kg	34.2	--	1	A
Aroclor 1254	ND		ug/kg	34.2	--	1	A
Aroclor 1260	ND		ug/kg	34.2	--	1	B
Aroclor 1262	ND		ug/kg	34.2	--	1	A
Aroclor 1268	ND		ug/kg	34.2	--	1	A
PCBs, Total	ND		ug/kg	34.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	78		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 18:09  
**Analyst:** WR  
**Percent Solids:** 92%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.2	--	1	A
Aroclor 1221	ND		ug/kg	36.2	--	1	A
Aroclor 1232	ND		ug/kg	36.2	--	1	A
Aroclor 1242	ND		ug/kg	36.2	--	1	A
Aroclor 1248	ND		ug/kg	36.2	--	1	A
Aroclor 1254	ND		ug/kg	36.2	--	1	A
Aroclor 1260	83.8		ug/kg	36.2	--	1	B
Aroclor 1262	ND		ug/kg	36.2	--	1	A
Aroclor 1268	ND		ug/kg	36.2	--	1	A
PCBs, Total	83.8		ug/kg	36.2	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	94		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-139  
**Client ID:** SB-1 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:39  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 18:21  
**Analyst:** WR  
**Percent Solids:** 90%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.8	--	1	A
Aroclor 1221	ND		ug/kg	36.8	--	1	A
Aroclor 1232	ND		ug/kg	36.8	--	1	A
Aroclor 1242	ND		ug/kg	36.8	--	1	A
Aroclor 1248	ND		ug/kg	36.8	--	1	A
Aroclor 1254	ND		ug/kg	36.8	--	1	A
Aroclor 1260	51.4		ug/kg	36.8	--	1	B
Aroclor 1262	ND		ug/kg	36.8	--	1	A
Aroclor 1268	ND		ug/kg	36.8	--	1	A
PCBs, Total	51.4		ug/kg	36.8	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	99		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-140  
**Client ID:** SB-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 18:33  
**Analyst:** WR  
**Percent Solids:** 95%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	33.1	--	1	A
Aroclor 1221	ND		ug/kg	33.1	--	1	A
Aroclor 1232	ND		ug/kg	33.1	--	1	A
Aroclor 1242	ND		ug/kg	33.1	--	1	A
Aroclor 1248	ND		ug/kg	33.1	--	1	A
Aroclor 1254	ND		ug/kg	33.1	--	1	A
Aroclor 1260	88.0		ug/kg	33.1	--	1	B
Aroclor 1262	ND		ug/kg	33.1	--	1	A
Aroclor 1268	ND		ug/kg	33.1	--	1	A
PCBs, Total	88.0		ug/kg	33.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	93		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-141  
**Client ID:** SB-1 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:42  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 97,8082A  
**Analytical Date:** 09/16/19 18:53  
**Analyst:** WR  
**Percent Solids:** 78%

**Extraction Method:** EPA 3540C  
**Extraction Date:** 09/07/19 14:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/16/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>MCP Polychlorinated Biphenyls - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	41.0	--	1	A
Aroclor 1221	ND		ug/kg	41.0	--	1	A
Aroclor 1232	ND		ug/kg	41.0	--	1	A
Aroclor 1242	ND		ug/kg	41.0	--	1	A
Aroclor 1248	ND		ug/kg	41.0	--	1	A
Aroclor 1254	ND		ug/kg	41.0	--	1	A
Aroclor 1260	ND		ug/kg	41.0	--	1	A
Aroclor 1262	ND		ug/kg	41.0	--	1	A
Aroclor 1268	ND		ug/kg	41.0	--	1	A
PCBs, Total	ND		ug/kg	41.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	74		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8082A  
 Analytical Date: 09/11/19 22:26  
 Analyst: WR

Extraction Method: EPA 3540C  
 Extraction Date: 09/07/19 10:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/09/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	Concentration	MJD	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-09 Batch: WG1281465-1						
Aroclor 1016	ND		ug/kg	56.3	--	B
Aroclor 1221	ND		ug/kg	56.3	--	B
Aroclor 1232	ND		ug/kg	56.3	--	B
Aroclor 1242	ND		ug/kg	56.3	--	B
Aroclor 1248	ND		ug/kg	37.5	--	B
Aroclor 1254	ND		ug/kg	56.3	--	B
Aroclor 1260	ND		ug/kg	37.5	--	B
Aroclor 1262	ND		ug/kg	18.8	--	B
Aroclor 1268	ND		ug/kg	18.8	--	B
PCBs, Total	ND		ug/kg	18.8	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	71		30-150	A

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8082A  
Analytical Date: 09/11/19 07:16  
Analyst: KB

Extraction Method: EPA 3540C  
Extraction Date: 09/07/19 11:55  
Cleanup Method: EPA 3665A  
Cleanup Date: 09/09/19  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 10-13,19,23,40,41,45,51-52 Batch: WG1281488-1					
Aroclor 1016	ND		ug/kg	32.8	A
Aroclor 1221	ND		ug/kg	32.8	A
Aroclor 1232	ND		ug/kg	32.8	A
Aroclor 1242	ND		ug/kg	32.8	A
Aroclor 1248	ND		ug/kg	32.8	A
Aroclor 1254	ND		ug/kg	32.8	A
Aroclor 1260	ND		ug/kg	32.8	A
Aroclor 1262	ND		ug/kg	32.8	A
Aroclor 1268	ND		ug/kg	32.8	A
PCBs, Total	ND		ug/kg	32.8	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	85		30-150	A
Decachlorobiphenyl	86		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8082A  
Analytical Date: 09/12/19 05:18  
Analyst: WR

Extraction Method: EPA 3540C  
Extraction Date: 09/07/19 14:15  
Cleanup Method: EPA 3665A  
Cleanup Date: 09/09/19  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,105-107,110-112 Batch: WG1281518-1					
Aroclor 1016	ND		ug/kg	32.2	A
Aroclor 1221	ND		ug/kg	32.2	A
Aroclor 1232	ND		ug/kg	32.2	A
Aroclor 1242	ND		ug/kg	32.2	A
Aroclor 1248	ND		ug/kg	32.2	A
Aroclor 1254	ND		ug/kg	32.2	A
Aroclor 1260	ND		ug/kg	32.2	A
Aroclor 1262	ND		ug/kg	32.2	A
Aroclor 1268	ND		ug/kg	32.2	A
PCBs, Total	ND		ug/kg	32.2	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	74		30-150	A
Decachlorobiphenyl	81		30-150	A



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8082A  
Analytical Date: 09/16/19 17:01  
Analyst: WR

Extraction Method: EPA 3540C  
Extraction Date: 09/07/19 14:45  
Cleanup Method: EPA 3665A  
Cleanup Date: 09/16/19  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/16/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 115,117-118,121-122,125-126,129-130,137-141 Batch: WG1281533-1					
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	63		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	61		30-150	A
Decachlorobiphenyl	74		30-150	A

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8082A  
Analytical Date: 09/10/19 14:23  
Analyst: WR

Extraction Method: EPA 3540C  
Extraction Date: 09/08/19 17:20  
Cleanup Method: EPA 3665A  
Cleanup Date: 09/09/19  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/09/19

Parameter	Result	Qualifier	Units	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 15-18,22,25,32 Batch: WG1281633-1					
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	68		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-p-m-xylene	67		30-150	A
Decachlorobiphenyl	62		30-150	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual					
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-09 Batch: WG1281465-2 WG1281465-									
Aroclor 1016	73		82		4-140	12		30	B
Aroclor 1260	67		75		40-140	11		30	B

Surrogate	LCS		LCSD		Acceptance Criteria	Column
	%Recovery	Qual	%Recovery	Qual		
2,4,5,6-Tetrachloro-m-xylene	67		74		30-150	B
Decachlorobiphenyl	76		83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		69		30-150	A
Decachlorobiphenyl	63		69		30-150	A

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual					
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 10-13,19,33,40-41,45,51-52 Batch: WG1281488-2 WG1281488-3									
Aroclor 1016	75		76		4-140	1		30	A
Aroclor 1260	63		63		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	B
Decachlorobiphenyl	87		82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		83		30-150	A
Decachlorobiphenyl	80		74		30-150	A

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 56-58,61,66-67,74-75,86-87,90,99-100,102,104-107,110-112 Batch: WG1281518-2 WG1281518-3								
Aroclor 1016	78		80		40-100	3	30	A
Aroclor 1260	71		72		40-100	1	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		77		30-150	B
Decachlorobiphenyl	88		88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	A
Decachlorobiphenyl	76		77		30-150	A

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 115,117-118,121-122,125-126,129-130,137-140 Batch: WG1281533-2 WG1281533-3								
Aroclor 1016	72		73		40-100	1	30	A
Aroclor 1260	72		75		40-100	4	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	95		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		67		30-150	A
Decachlorobiphenyl	77		78		30-150	A

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits		RPD		RPD Limits	Column
	%Recovery	Qual	%Recovery	Qual			Qual	Qual		
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 15-18,22-25,32 Batch: WG1281633-1 WG1281633-2 WG1281633-3										
Aroclor 1016	84		89		4-140		6		30	A
Aroclor 1260	60		55		40-140		9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		69		30-150	B
Decachlorobiphenyl	68		64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		71		30-150	A
Decachlorobiphenyl	40		39		30-150	A

NOT APPLICABLE

**METALS**

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-11

Date Collected: 09/04/19 08:50

Client ID: SB-4 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.39		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Barium, Total	62.6		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Cadmium, Total	0.672		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Chromium, Total	47.3		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Lead, Total	12.6		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.080	--	1	09/15/19 06:13	09/16/19 17:10	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.410	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC
Zinc, Total	30.1		mg/kg	2.05	--	1	09/15/19 17:40	09/16/19 22:26	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-12  
 Client ID: SB-4 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 08:40  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	4.72		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Barium, Total	34.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Cadmium, Total	0.939		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Chromium, Total	11.3		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Lead, Total	99.1		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.081	--	1	09/15/19 06:15	09/16/19 17:14	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.429	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC
Zinc, Total	41.7		mg/kg	2.14	--	1	09/15/19 17:40	09/16/19 22:48	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-15  
 Client ID: SB-4 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:10  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	9.82		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Barium, Total	170		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Cadmium, Total	0.733		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Chromium, Total	11.9		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Lead, Total	96.0		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.097	--	1	09/15/19 06:15	09/16/19 17:25	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.527	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC
Zinc, Total	109		mg/kg	2.64	--	1	09/15/19 17:40	09/16/19 23:01	EPA 3050B	97,6010D	MC

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-17

Date Collected: 09/04/19 09:25

Client ID: SB-3 (1-2)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	4.74		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Barium, Total	26.4		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Cadmium, Total	0.461		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Chromium, Total	17.8		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Lead, Total	48.7		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.078	--	1	09/15/19 06:53	09/16/19 17:27	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.412	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC
Zinc, Total	51.4		mg/kg	2.06	--	1	09/15/19 17:40	09/16/19 23:05	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-18  
 Client ID: SB-3 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	4.35		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Barium, Total	27.5		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Cadmium, Total	0.565		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Chromium, Total	9.98		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Lead, Total	108		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.079	--	1	09/15/19 06:13	09/16/19 17:29	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.404	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC
Zinc, Total	46.6		mg/kg	2.02	--	1	09/15/19 17:40	09/16/19 23:09	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-21  
 Client ID: SB-3 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 09:40  
 Date Received: 09/06/19  
 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											
Arsenic, Total	6.04		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Barium, Total	51.3		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Cadmium, Total	0.826		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Chromium, Total	25.0		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Lead, Total	153		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Mercury, Total	0.160		mg/kg	0.090	--	1	09/15/19 06:53	09/16/19 17:31	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.459	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC
Zinc, Total	74.4		mg/kg	2.29	--	1	09/15/19 17:40	09/16/19 23:13	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-23  
 Client ID: SB-2 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:05  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	9.19		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Barium, Total	132		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Cadmium, Total	0.851		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Chromium, Total	67.9		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Lead, Total	215		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Mercury, Total	0.330		mg/kg	0.080	--	1	09/15/19 06:53	09/16/19 16:53	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC
Zinc, Total	123		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:11	EPA 3050B	97,6010D	MC

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-24

Date Collected: 09/04/19 10:07

Client ID: SB-2 (2-3)

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.41		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Barium, Total	98.5		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Cadmium, Total	0.875		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Chromium, Total	47.7		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Lead, Total	149		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Mercury, Total	2.03		mg/kg	0.088	--	1	09/15/19 06:53	09/16/19 17:33	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC
Zinc, Total	116		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:17	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-27  
 Client ID: SB-2 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 10:20  
 Date Received: 09/06/19  
 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
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	7.93		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Barium, Total	126		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Cadmium, Total	1.33		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Chromium, Total	41.3		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Lead, Total	698		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Mercury, Total	0.393		mg/kg	0.092	--	1	09/15/19 06:15	09/16/19 17:35	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.493	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC
Zinc, Total	512		mg/kg	2.46	--	1	09/15/19 17:40	09/16/19 23:22	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-44  
 Client ID: D-07 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:16  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	8.68		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Barium, Total	297		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Cadmium, Total	3.02		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Chromium, Total	26.2		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Lead, Total	2650		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.326		mg/kg	0.081	--	1	09/15/19 06:53	09/16/19 17:37	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC
Zinc, Total	722		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 23:52	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-45  
 Client ID: D-07 (7-9)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 12:30  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	3.80		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Barium, Total	17.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Cadmium, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Chromium, Total	15.2		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Lead, Total	10.5		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Mercury, Total	ND		mg/kg	0.095	--	1	09/15/19 06:13	09/16/19 17:39	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.499	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC
Zinc, Total	25.3		mg/kg	2.49	--	1	09/15/19 17:40	09/16/19 23:57	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-50  
 Client ID: SB-DUP-5  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 00:00  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	8.93		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Barium, Total	168		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Cadmium, Total	2.78		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Chromium, Total	30.8		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Lead, Total	1220		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Mercury, Total	0.462		mg/kg	0.083	--	1	09/15/19 06:53	09/16/19 17:41	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.424	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC
Zinc, Total	534		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:01	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-55  
 Client ID: E-06 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:24  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	6.53		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Barium, Total	269		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Cadmium, Total	1.82		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Chromium, Total	48.6		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Lead, Total	241		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Mercury, Total	2.59		mg/kg	0.079	--	1	09/15/19 06:13	09/16/19 17:43	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC
Zinc, Total	415		mg/kg	2.12	--	1	09/15/19 17:40	09/17/19 00:05	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-56  
 Client ID: E-06 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/04/19 13:35  
 Date Received: 09/06/19  
 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
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	6.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Barium, Total	75.0		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Cadmium, Total	1.74		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Chromium, Total	24.6		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Lead, Total	50.8		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Mercury, Total	0.362		mg/kg	0.095	--	1	09/15/19 06:53	09/16/19 17:49	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.489	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC
Zinc, Total	52.3		mg/kg	2.45	--	1	09/15/19 17:40	09/17/19 00:10	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-101  
 Client ID: B-09 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 09:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	17.0		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Barium, Total	328		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Cadmium, Total	6.38		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Chromium, Total	37.8		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Lead, Total	717		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Mercury, Total	0.789		mg/kg	0.083	--	1	09/15/19 06:53	09/16/19 17:07	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Silver, Total	0.481		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC
Zinc, Total	774		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:17	EPA 3050B	97,6010D	MC

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-105  
 Client ID: B-09 (5-7)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	10.6		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Barium, Total	410		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Cadmium, Total	6.16		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Chromium, Total	40.0		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Lead, Total	1150		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Mercury, Total	0.887		mg/kg	0.083	--	1	09/15/19 06:13	09/16/19 17:08	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Silver, Total	2.11		mg/kg	0.423	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC
Zinc, Total	914		mg/kg	2.12	--	1	09/15/19 17:40	09/16/19 22:21	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-113  
 Client ID: B-05 (1-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:54  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	49.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Barium, Total	59.0		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Cadmium, Total	2.66		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Chromium, Total	19.4		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Lead, Total	242		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Mercury, Total	0.612		mg/kg	0.087	--	1	09/15/19 07:53	09/16/19 17:56	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.436	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC
Zinc, Total	245		mg/kg	2.18	--	1	09/15/19 17:40	09/16/19 21:37	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-115  
 Client ID: B-05 (3-5)-2  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:57  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	13.4		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Barium, Total	26.0		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Cadmium, Total	0.601		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Chromium, Total	15.8		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Lead, Total	33.4		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Mercury, Total	0.107		mg/kg	0.107	--	1	09/15/19 06:13	09/16/19 17:12	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.562	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC
Zinc, Total	31.7		mg/kg	2.81	--	1	09/15/19 17:40	09/16/19 22:31	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-138  
 Client ID: SB-1 (1-2)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:36  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	5.94		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Barium, Total	74.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Cadmium, Total	1.11		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Chromium, Total	25.6		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Lead, Total	342		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Mercury, Total	0.121		mg/kg	0.081	--	1	09/15/19 06:13	09/16/19 17:16	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.425	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC
Zinc, Total	135		mg/kg	2.13	--	1	09/15/19 17:40	09/16/19 22:52	EPA 3050B	97,6010D	MC

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

Lab ID: L1940717-139  
 Client ID: SB-1 (2-3)  
 Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39  
 Date Received: 09/06/19  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Mansfield Lab</b>											
Arsenic, Total	6.12		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Barium, Total	58.3		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Cadmium, Total	0.921		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Chromium, Total	13.9		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Lead, Total	236		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Mercury, Total	0.306		mg/kg	0.084	--	1	09/16/19 08:15	09/16/19 16:15	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.417	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC
Zinc, Total	121		mg/kg	2.08	--	1	09/16/19 14:06	09/17/19 00:14	EPA 3050B	97,6010D	MC

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-140

Date Collected: 09/05/19 00:00

Client ID: SB-DUP-1

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	6.44		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Barium, Total	99.9		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Cadmium, Total	1.04		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Chromium, Total	30.6		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Lead, Total	371		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Mercury, Total	0.139		mg/kg	0.078	--	1	09/15/19 06:13	09/16/19 17:18	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.408	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC
Zinc, Total	151		mg/kg	2.04	--	1	09/15/19 17:40	09/16/19 22:56	EPA 3050B	97,6010D	MC

NOT APPLICABLE

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

## SAMPLE RESULTS

Lab ID: L1940717-143

Date Collected: 09/05/19 13:48

Client ID: SB-1 (5-7)-2

Date Received: 09/06/19

Sample Location: LAWRENCE, MA

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											
Arsenic, Total	8.94		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Barium, Total	100		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Cadmium, Total	1.60		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Chromium, Total	16.9		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Lead, Total	272		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Mercury, Total	0.329		mg/kg	0.095	--	1	09/16/19 06:13	09/16/19 17:20	EPA 7471B	97,7471B	GD
Selenium, Total	ND		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Silver, Total	ND		mg/kg	0.496	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC
Zinc, Total	129		mg/kg	2.48	--	1	09/16/19 14:06	09/17/19 00:53	EPA 3050B	97,6010D	MC

NOT APPLICABLE

Project Name: TOMBARELLO SITE  
Project Number: 17001426

Lab Number: L1940717  
Report Date: 09/20/19

### 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): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Silver, Total	ND	mg/kg	0.400	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/15/19 17:40	09/16/19 20:12	97,6010D	MC

#### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 06:00	09/16/19 16:47	97,7471B	GD

#### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 113 Batch: WG1284436-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 07:00	09/16/19 17:50	97,7471B	GD

#### Prep Information

Digestion Method: EPA 7471B

Project Name: TOMBARELLO SITE  
Project Number: 17001426

Lab Number: L1940717  
Report Date: 09/20/19

### 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): 139 Batch: WG1284469-1									
Mercury, Total	ND	mg/kg	0.083	--	1	09/16/19 08:20	09/16/19 16:05	97,7471B	GD

#### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 139,143 Batch: WG1284469-1									
Arsenic, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Barium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Cadmium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Chromium, Total	ND	mg/kg	0.400	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Lead, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Selenium, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Silver, Total	ND	mg/kg	0.100	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC
Zinc, Total	ND	mg/kg	2.00	--	1	09/16/19 14:06	09/16/19 23:39	97,6010D	MC

#### Prep Information

Digestion Method: EPA 3050B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 Batch: WG1284380-2 WG1284380-3 SRM Lot Number: D105-540								
Arsenic, Total	92		93		70-80	1		30
Barium, Total	80		87		75-125	8		30
Cadmium, Total	96		94		75-125	2		30
Chromium, Total	80		83		70-130	4		30
Lead, Total	83		84		71-128	1		30
Selenium, Total	91		92		63-137	1		30
Silver, Total	83		85		69-131	2		30
Zinc, Total	85		86		70-130	1		30
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 Batch: WG1284435-2 WG1284435-3 SRM Lot Number: D105-540								
Mercury, Total	94		96		60-141	2		30
MCP Total Metals - Mansfield Lab Associated sample(s): 115 Batch: WG1284436-2 WG1284436-3 SRM Lot Number: D105-540								
Mercury, Total	90		94		60-141	4		30
MCP Total Metals - Mansfield Lab Associated sample(s): 119 Batch: WG1284469-2 WG1284469-3 SRM Lot Number: D105-540								
Mercury, Total	91		96		60-141	5		30

NOT APPLICABLE

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 Batch: WG1284649-2 WG1284649-3 SRM Lot Number: D105-540					
Arsenic, Total	94	92	70-125	2	30
Barium, Total	86	89	75-125	3	30
Cadmium, Total	89	94	75-125	5	30
Chromium, Total	81	82	70-130	1	30
Lead, Total	84	81	71-128	4	30
Selenium, Total	92	90	63-137	2	30
Silver, Total	86	85	69-131	1	30
Zinc, Total	85	86	70-130	1	30

NOT APPLICABLE

### Matrix Spike Analysis Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-4 WG1284380-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Arsenic, Total	9.19	10.2	18.9	95		17.7	82		75-125	7		35
Barium, Total	132	170	242	65	Q	238	61	Q	75-125	2		35
Cadmium, Total	0.851	4.33	4.58	86		4.80	90		75-125	5		35
Chromium, Total	67.9	17	82.3	85		53.8	0	Q	75-125	42	Q	35
Lead, Total	215	43.3	207	0	Q	200	0	Q	75-125	3		35
Selenium, Total	ND	10.2	9.20	90		9.60	93		75-125	4		35
Silver, Total	ND	25.4	22.2	87		22.9	88		75-125	3		35
Zinc, Total	123	42.4	155	75		185	144	Q	75-125	18		35
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-7 WG1284380-8 QC Sample: L1940717-113 Client ID: B-05 (1-3)												
Arsenic, Total	49.0	10.8	57.3	77		58.6	92		75-125	2		35
Barium, Total	59.0	180	226	93		215	90		75-125	5		35
Cadmium, Total	2.66	4.59	6.43	82		6.26	81		75-125	3		35
Chromium, Total	19.4	18	32.1	70	Q	32.8	77		75-125	2		35
Lead, Total	242	45.9	263	46	Q	304	140	Q	75-125	14		35
Selenium, Total	ND	10.8	11.1	103		10.7	103		75-125	4		35
Silver, Total	ND	27	24.3	90		23.3	89		75-125	4		35
Zinc, Total	245	45	613	818	Q	273	64	Q	75-125	77	Q	35
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,115,138,140,143 QC Batch ID: WG1284435-4 WG1284435-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Mercury, Total	0.330	0.167	0.504	104		0.523	120		75-125	4		35

NOT APPLICABLE

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 113 QC Batch ID: WG1284436-4 WG1284436-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)									
Mercury, Total	0.612	0.17	0.793	107	0.743	76	75-125	7	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139 QC Batch ID: WG1284469-4 WG1284469-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Mercury, Total	0.306	0.164	0.503	120	0.544	141	Q 75-125	8	35
MCP Total Metals - Mansfield Lab Associated sample(s): 139,143 QC Batch ID: WG1284649-4 WG1284649-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)									
Arsenic, Total	6.12	10.6	22.0	149	22.1	149	Q 75-125	0	35
Barium, Total	58.3	177	224	93	224	93	75-125	0	35
Cadmium, Total	0.921	4.52	6.46	116	6.23	116	75-125	4	35
Chromium, Total	13.9	17.7	34.9	118	35.3	120	75-125	1	35
Lead, Total	236	45.2	271	77	293	125	75-125	8	35
Selenium, Total	ND	10.6	9.54	90	9.84	92	75-125	3	35
Silver, Total	ND	26.6	24.0	90	24.6	92	75-125	2	35
Zinc, Total	121	44.3	162	92	164	96	75-125	1	35

NOT APPLICABLE

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Serial Dilution  
 Analysis  
 Batch Quality Control**

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	Native Sample	Serial Dilution	Units	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-6 QC Sample: L1940717-23 Client ID: SB-2 (1-2)						
Barium, Total	132	103	mg/kg	22	Q	20
Chromium, Total	67.9	70.8	mg/kg	4		20
Lead, Total	215	279	mg/kg	30	Q	20
Zinc, Total	123	158	mg/kg	28	Q	20
MCP Total Metals - Mansfield Lab Associated sample(s): 11-12,15,17-18,21,23-24,27,44-45,50,55-56,101,105,113,115,138,140 QC Batch ID: WG1284380-9 QC Sample: L1940717-113 Client ID: B-05 (1-3)						
Arsenic, Total	49.0	57.1	mg/kg	16		20
Barium, Total	59.0	49.4	mg/kg	16		20
Lead, Total	242	306	mg/kg	26	Q	20
Zinc, Total	245	313	mg/kg	28	Q	20

NOT APPLICABLE



**INORGANICS  
&  
MISCELLANEOUS**

**NOT APPLICABLE**

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-01  
**Client ID:** AS-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-02  
**Client ID:** AS-6  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:15  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-03  
**Client ID:** AS-7  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-04  
**Client ID:** AS-8  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-05  
**Client ID:** AS-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:45  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	99.0		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-06  
**Client ID:** AS-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:50  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	99.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-07  
**Client ID:** AS-3  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 11:55  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	99.6		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-08  
**Client ID:** AS-4  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 12:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-09  
**Client ID:** AS-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/03/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	100		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-10  
**Client ID:** SB-4 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:30  
**Date Received:** 09/06/19  
**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	95.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-11  
**Client ID:** SB-4 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:50  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	5.7		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-12  
**Client ID:** SB-4 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 08:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.3		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	190		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-13  
**Client ID:** SB-4 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:05  
**Date Received:** 09/06/19  
**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	86.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-15  
**Client ID:** SB-4 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:10  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	1.06	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	75.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-16  
**Client ID:** SB-3 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:20  
**Date Received:** 09/06/19  
**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	95.0		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-17  
**Client ID:** SB-3 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:25  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.853	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-18  
**Client ID:** SB-3 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.846	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	94.5		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-19  
**Client ID:** SB-3 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:35  
**Date Received:** 09/06/19  
**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	85.2		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-21  
**Client ID:** SB-3 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 09:40  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.966	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	82.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI
pH (H)	6.2		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-22  
**Client ID:** SB-2 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:00  
**Date Received:** 09/06/19  
**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	96.8		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-23  
**Client ID:** SB-2 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:05  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.885	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	90.4		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.9		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-24  
**Client ID:** SB-2 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:07  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	1.13		mg/kg	0.897	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-25  
**Client ID:** SB-2 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:15  
**Date Received:** 09/06/19  
**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	86.0		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-27  
**Client ID:** SB-2 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 10:20  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.985	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	81.2		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-32  
**Client ID:** E-08 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 11:25  
**Date Received:** 09/06/19  
**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	87.0		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-33  
**Client ID:** E-08 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 11:30  
**Date Received:** 09/06/19  
**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	92.9		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-40  
**Client ID:** D-07 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:12  
**Date Received:** 09/06/19  
**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	93.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-41  
**Client ID:** D-07 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:14  
**Date Received:** 09/06/19  
**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	92.4		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-44  
**Client ID:** D-07 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:16  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-45  
**Client ID:** D-07 (7-9)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 12:30  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	1.03	--	1	09/13/19 22:25	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	77.6		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	6.4		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-50  
**Client ID:** SB-DUP-5  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.881	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-51  
**Client ID:** E-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:22  
**Date Received:** 09/06/19  
**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	96.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-52  
**Client ID:** E-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:26  
**Date Received:** 09/06/19  
**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	90.2		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-55  
**Client ID:** E-06 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:24  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.856	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.5		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-56  
**Client ID:** E-06 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 13:35  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	1.02	--	1	09/13/19 22:25	09/15/19 18:34	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	78.8		%	0.100	NA	1	-	09/07/19 09:22	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	150		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-57  
**Client ID:** E-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:10  
**Date Received:** 09/06/19  
**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	91.0		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-58  
**Client ID:** E-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:12  
**Date Received:** 09/06/19  
**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	87.4		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-61  
**Client ID:** SB-DUP-6  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 00:00  
**Date Received:** 09/06/19  
**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	91.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-66  
**Client ID:** D-09 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:50  
**Date Received:** 09/06/19  
**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	87.8		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-67  
**Client ID:** D-09 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 14:53  
**Date Received:** 09/06/19  
**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	75.3		%	0.100	NA	1	-	09/07/19 09:23	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-74  
**Client ID:** B-07 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 15:27  
**Date Received:** 09/06/19  
**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	91.2		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-75  
**Client ID:** B-07 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/04/19 15:29  
**Date Received:** 09/06/19  
**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	83.4		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-86  
**Client ID:** C-08 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:08  
**Date Received:** 09/06/19  
**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	87.3		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-87  
**Client ID:** C-08 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:11  
**Date Received:** 09/06/19  
**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	77.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-90  
**Client ID:** SB-DUP-4  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**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	76.8		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-99  
**Client ID:** B-09 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:53  
**Date Received:** 09/06/19  
**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	95.5		%	0.100	NA	1	-	09/07/19 09:53	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-100  
**Client ID:** SB-DUP-3  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**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	96.4		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-101  
**Client ID:** B-09 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.857	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-102  
**Client ID:** B-09 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 09:55  
**Date Received:** 09/06/19  
**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	91.0		%	0.100	NA	1	-	09/07/19 09:57	121,2540G	RI

**NOT APPLICABLE**



Project Name: TOMBARELLO SITE  
Project Number: 17001426

Lab Number: L1940717  
Report Date: 09/20/19

### SAMPLE RESULTS

Lab ID: L1940717-105  
Client ID: B-09 (5-7)-2  
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 10:02  
Date Received: 09/06/19  
Field Prep: Not Specified

Sample Depth:  
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.872	--	1	09/13/19 19:00	09/15/19 18:34	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	91.7		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-106  
**Client ID:** A-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:33  
**Date Received:** 09/06/19  
**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	96.7		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-107  
**Client ID:** A-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:36  
**Date Received:** 09/06/19  
**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	97.1		%	0.100	NA	1	-	09/07/19 09:37	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-110  
**Client ID:** SB-DUP-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**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	97.2		%	0.100	NA	1	-	09/07/19 09:07	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-111  
**Client ID:** B-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:48  
**Date Received:** 09/06/19  
**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	91.9		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-112  
**Client ID:** B-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:51  
**Date Received:** 09/06/19  
**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	86.4		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-113  
**Client ID:** B-05 (1-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:54  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.918	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.1		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	140		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-115  
**Client ID:** B-05 (3-5)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 10:57  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	1.15	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	69.3		%	0.100	NA	1	-	09/07/19 09:47	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-117  
**Client ID:** C-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:12  
**Date Received:** 09/06/19  
**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	87.1		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-118  
**Client ID:** C-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:15  
**Date Received:** 09/06/19  
**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	85.5		%	0.100	NA	1	-	09/07/19 09:17	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-121  
**Client ID:** C-06 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:32  
**Date Received:** 09/06/19  
**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	95.2		%	0.100	NA	1	-	09/07/19 09:32	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-122  
**Client ID:** C-06 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 11:34  
**Date Received:** 09/06/19  
**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	91.0		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-125  
**Client ID:** A-05 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 12:12  
**Date Received:** 09/06/19  
**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	93.0		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-126  
**Client ID:** A-05 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 12:14  
**Date Received:** 09/06/19  
**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	94.3		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-129  
**Client ID:** E-02 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:05  
**Date Received:** 09/06/19  
**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	94.0		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-130  
**Client ID:** E-02 (2-3)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:08  
**Date Received:** 09/06/19  
**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	94.5		%	0.100	NA	1	-	09/07/19 09:13	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-137  
**Client ID:** SB-1 (0-0.5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:33  
**Date Received:** 09/06/19  
**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	95.0		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

**NOT APPLICABLE**





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-138  
**Client ID:** SB-1 (1-2)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:36  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.870	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	92.0		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE  
Project Number: 17001426

Lab Number: L1940717  
Report Date: 09/20/19

### SAMPLE RESULTS

Lab ID: L1940717-139  
Client ID: SB-1 (2-3)  
Sample Location: LAWRENCE, MA

Date Collected: 09/05/19 13:39  
Date Received: 09/06/19  
Field Prep: Not Specified

Sample Depth:  
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/kg	0.894	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-140  
**Client ID:** SB-DUP-1  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 00:00  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	0.840	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	95.2		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	8.2		SU	-	NA	1	-	09/07/19 12:34	1,9045D	JA
Oxidation/Reduction Potential	130		mv	-	NA	1	-	09/07/19 11:42	68,1498	JA

NOT APPLICABLE



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-141  
**Client ID:** SB-1 (3-5)  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:42  
**Date Received:** 09/06/19  
**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	78.4		%	0.100	NA	1	-	09/07/19 09:33	121,2540G	RI

**NOT APPLICABLE**



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

**SAMPLE RESULTS**

**Lab ID:** L1940717-143  
**Client ID:** SB-1 (5-7)-2  
**Sample Location:** LAWRENCE, MA

**Date Collected:** 09/05/19 13:48  
**Date Received:** 09/06/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>MCP General Chemistry - Westborough Lab</b>										
Chromium, Hexavalent	ND		mg/kg	1.01	--	1	09/13/19 19:00	09/15/19 18:30	97,7196A	CW
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	79.3		%	0.100	NA	1	-	09/07/19 09:58	121,2540G	RI
pH (H)	7.5		SU	-	NA	1	-	09/09/19 18:34	1,9045D	AS
Oxidation/Reduction Potential	160		mv	-	NA	1	-	09/09/19 22:02	68,1498	AS

NOT APPLICABLE



Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 19:00	09/15/19 18:00	97,7196A	CW
MCP General Chemistry - Westborough Lab for sample(s): 23,44-45,50,55-56 Batch: WG1283980-1									
Chromium, Hexavalent	ND	mg/kg	0.800	--	1	09/13/19 22:25	09/15/19 18:00	97,7196A	CW

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281496-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 Batch: WG1281505-1								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281961-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 Batch: WG1281998-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 Batch: WG1283971-2 WG1283971-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 Batch: WG1283979-2 WG1283979-3								
Chromium, Hexavalent	97		103		70-129	6		20
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 Batch: WG1283980-2 WG1283980-3								
Chromium, Hexavalent	86		85		70-129	1		20



## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
MCP General Chemistry - Westborough Lab Associated sample(s): 11-12,101,105,113,115,138 QC Batch ID: WG1283971-4 WG1283971-5 QC Sample: L1940717-113 Client ID: B-05 (1-3)												
Chromium, Hexavalent	ND	772	726	94		840	106		75-125	15		35
MCP General Chemistry - Westborough Lab Associated sample(s): 15,17-18,21,24,27,139-140,143 QC Batch ID: WG1283979-4 WG1283979-5 QC Sample: L1940717-139 Client ID: SB-1 (2-3)												
Chromium, Hexavalent	ND	990	933	94		842	87		75-125	10		35
MCP General Chemistry - Westborough Lab Associated sample(s): 23,44-45,50,55-56 QC Batch ID: WG1283980-4 WG1283980-5 QC Sample: L1940717-23 Client ID: SB-2 (1-2)												
Chromium, Hexavalent	ND	762	793	104		804	102		75-125	1		35



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: TOMBARELLO SITE

Project Number: 17001426

Lab Number: L1940717

Report Date: 09/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13,15-19,21-22 QC Batch ID: WG1281442-1 QC Sample: L1940717-01 Client ID: AS-5						
Solids, Total	100	99.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 23-25,27,32-33,40-41,44-45,50-52,55-58,61,66-67 QC Batch ID: WG1281445-1 QC Sample: L1940717-23 Client ID: SB-2 (1-2)						
Solids, Total	90.4	91.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 74-75,86-87,90,99-102,105-107,110-113,115,117-118 QC Batch ID: WG1281446-1 QC Sample: L1940717-74 Client ID: B-07 (1-2)						
Solids, Total	91.2	92.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 121-122,125-126,129-130,137-141,143 QC Batch ID: WG1281447-1 QC Sample: L1940717-121 Client ID: C-06 (1-2)						
Solids, Total	95.2	95.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 15,18,23,27,44,50,55,113,139-140 QC Batch ID: WG1281496-2 QC Sample: L1940717-113 Client ID: B-05 (1-3)						
Oxidation/Reduction Potential	140	140	mv	0		20
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281961-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
pH (H)	5.7	5.8	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 11-12,17,21,24,45,56,101,105,115,138,143 QC Batch ID: WG1281998-2 QC Sample: L1940717-11 Client ID: SB-4 (1-2)						
Oxidation/Reduction Potential	140	140	mv	0		20

**Project Name:** TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

Cooler	Custody Seal
A	Absent
B	Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-01A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-02A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-03A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-04A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-05A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-06A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-07A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-08A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-09A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082LL-CNCRT(365)
L1940717-100A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-101A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-101B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-101D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-101E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-101F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-101G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-102A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-103A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-104A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

**Project Name:** TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-105A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-105B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-105E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-105F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-105G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-106A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-107A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-108A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-109A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-10A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-110A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-111A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-112A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-113A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-113B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-113D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-113E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-113E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-113F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-113G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-113G2	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		EPH-DELUX-10(14)
L1940717-114A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-115A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-115B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-115D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-115E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-115F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-115G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-116A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-117A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-118A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-119A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-11A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-11B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-11D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Serial\_No:**09201912:30  
**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-11F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-11G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-120A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-121A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-122A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-123A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-124A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-125A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-126A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-127A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-128A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-129A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-12A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-12B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-12C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-12D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-12F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-12G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-130A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-131A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-132A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-133A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-134A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-135A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-136A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

Project Name: TOMBARELLO SITE

Lab Number: L1940717

Project Number: 17001426

Report Date: 09/20/19

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-137A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-138A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-138E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-138F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-138G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-139B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-139D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-139E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-139F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-139G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-139G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-13A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-140A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-140B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-140D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-140E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-140F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-140G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-141A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-142A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-143A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-143D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-143E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-143F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-143G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-144A	Vial MeOH preserved	A	NA		4.9	Y	Absent		ARCHIVE()
L1940717-144B	Vial MeOH preserved	B	NA		3.5	Y	Absent		ARCHIVE()
L1940717-144C	Vial water preserved	A	NA		4.9	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-144D	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	ARCHIVE()
L1940717-14A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-15A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-15C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)

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**Container Information**

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L1940717-15D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-15E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-15F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-15G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-16A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-17A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-17B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-17E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-17F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-17G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-18A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-18B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-18D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-18E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-18F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-18G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-19A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-20A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-21A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-21B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)



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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1940717-21C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-21E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-21F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-21G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),PH-9045(1),EPH-DELUX-10(14)
L1940717-22A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-23A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-23B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-23E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23E2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-23F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-23G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G1	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-23G2	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-24A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-24B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260HLW-10(14)
L1940717-24D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)

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**Container Information**

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L1940717-24E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-24F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-24G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-25A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-26A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-27A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27B	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27C	Vial water preserved	B	NA		3.5	Y	Absent	07-SEP-19 07:00	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-27D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-27E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-27F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-27G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-28A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-29A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-30A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-31A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-32A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-33A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-34A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-35A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-36A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-37A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-38A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-39A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-40A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-41A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-42A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-43A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-44A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260H-10(14),MCP-8260HLW-10(14)
L1940717-44D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-44E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-44F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-44G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-45A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-45B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-45C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-45E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-45F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-45G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-46A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-47A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-48A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-49A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-50A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-50B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-50C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

Serial\_No:09201912:30  
**Lab Number:** L1940717  
**Report Date:** 09/20/19

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-50D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-50E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-50F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-50G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-51A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-52A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-53A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-54A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-55A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-55B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-55C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-55D	Plastic 2oz unpreserved for TS	B	NA		3.5	Y	Absent		TS(7)
L1940717-55E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-55F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-55G	Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),PH-9045(1),EPH-DELUX-10(14)
L1940717-56A	Vial MeOH preserved	B	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1940717-56B	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-56C	Vial water preserved	B	NA		3.5	Y	Absent	<b>07-SEP-19 07:00</b>	MCP-8260HLW-10(14)
L1940717-56E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1940717-56F	Glass 120ml/4oz unpreserved/No Headspace	B	NA		3.5	Y	Absent		MCP-HEXCR7196-10(30)
L1940717-56G	Glass 120ml/4oz unpreserved	B	NA		3.5	Y	Absent		ORP-9045(1),TS(7),MCP-8082-10-3540C(365),PH-9045(1),EPH-DELUX-10(14)
L1940717-57A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

**Project Name:** TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-58A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-59A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-60A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-61A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-62A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-63A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-64A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-65A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-66A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-67A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-68A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-69A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-70A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-71A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-72A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-73A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-74A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-75A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-76A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-77A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-78A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-79A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-80A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-81A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-82A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-83A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-84A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-85A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)

**Project Name:** TOMBARELLO SITE**Lab Number:** L1940717**Project Number:** 17001426**Report Date:** 09/20/19**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1940717-86A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-87A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-88A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-89A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-90A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)
L1940717-91A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-92A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-93A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-94A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-95A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-96A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-97A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-98A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8082(14)
L1940717-99A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		TS(7),MCP-8082-10-3540C(365)

**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

## GLOSSARY

### Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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

Report Format: Data Usability Report



**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

- 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.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**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.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

**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.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- 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.

Report Format: Data Usability Report





**Project Name:** TOMBARELLO SITE  
**Project Number:** 17001426

**Lab Number:** L1940717  
**Report Date:** 09/20/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 68 Annual Book of ASTM (American Society for Testing and Materials) Standards following extraction by SW-846 EPA Method 9045C under the requirements of MADEP BWSC, WSC-CAM-VIB. August 2004.
- 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.
- 98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, 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.



## 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), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

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

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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.



# CHAIN OF CUSTODY

PAGE 1 OF 15

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC  
 Address: 776 Main Street  
 Westbrook, Maine  
 Phone: 207-828-1272  
 Fax:  
 Email: sgannon@crederellc.com

## Project Information

Project Name: Tombarello Site  
 Project Location: Lawrence, MA  
 Project #: 17001426  
 Project Manager: Sean Gannon  
 ALPHA Quote #:

## Turn-Around Time

Standard     Rush (ONLY IF PRE-APPROVED)  
 Due Date:    Time:

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19    ALPHA Job #: L1940717  
 Report Information    Data Deliverables    Billing Information

FAX     EMAIL     Same as Client info    PO #: 17001426  
 ADEx     Add'l Deliverables    **GEI - EFWED**

## Regulatory Requirements/Report Limits

State/Fed Program    Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs															
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**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not Needed  
 Preservation  
 Lab to do  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-01	AS-5	9.3.19	1105	concrete dust	SG
-02	AS-6		1115		
-03	AS-7		1120		
-04	AS-8		1125		
-05	AS-1		1145		
-06	AS-2		1150		
-07	AS-3		1155		
-08	AS-4		1205		
-09	AS-DUP-1		-		
-10	SB-4 (0-0.5)	9.4.19	0830	Soil	SP

Container Type	25	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19/1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(JAN) (Rev. 8-JAN-12)



# CHAIN OF CUSTODY

PAGE 2 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Creder Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederllc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/17

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables - GET - EFWEDD

## Billing Information

Same as Client info PO #: 17001426

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not Needed  
 Preservation  
 Lab to do  
 Lab to do  
 (Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-11	SB-4 (1-2)	9.4.19	0850	Soil	SF
-12	SB-4 (2-3)		0840		
-13	SB-4 (3-5)		0905		
-14	SB-4 (5-7) -1		0900		
-15	SB-4 (5-7) -2		0900		
-16	SB-3 (0-0.5)		0920		
-17	SB-3 (1-2)		0925		
-18	SB-3 (2-3)		0930		
-19	SB-3 (3-5)		0935		
-20	SB-3 (5-7) -1		0940		

Hold SB-4 (5-7) -1 pending approval  
 Hold SB-3 (5-7) pending approval  
 Some samples with 7 bottles indicated may be missing total solids jar due to insufficient soil volume

Container Type	jar																
Preservative																	

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1130	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19/1845	Rob Monte	9-6-19 1845
Rob Monte	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 3 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-21	SB-3 (5-7)-2	9.4.19	0940	Soil	SF
-22	SB-2 (0-0.5)		1000		
-23	SB-2 (1-2)		1005		
-24	SB-2 (2-3)		1007		
-25	SB-2 (3-5)		1015		
-26	SB-2 (5-7)-1		1020		
-27	SB-2 (5-7)-2		1020		
-28	E-07 (1-2)		1100		
-29	E-07 (2-3)		1103		
-30	E-07 (3-5)		1106		

Sample Specific Comments

- SB-2(1-2) includes volume for MS/MSD (metals)  
 - SB-2(5-7)-1 hold pending approval.  
 - All E-07 samples held for approval  
 - Some samples with 7 bottles indicated maybe missing total solids jar due to insufficient soil volume.

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1130	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9.6.19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 4 OF 5

### Project Information

Westborough, MA    Mansfield, MA  
TEL: 508-898-9220    TEL: 508-822-9300  
FAX: 508-898-9193    FAX: 508-822-3288

Project Name: Tombarello Site

### Client Information

Client: Credere Associates, LLC

Project Location: Lawrence, MA

Address: 776 Main Street

Project #: 17001426

Westbrook, Maine

Project Manager: Sean Gannon

Phone: 207-828-1272

ALPHA Quote #:

Fax:  Standard     Rush (ONLY IF PRE-APPROVED)

Email: sgannon@crederelc.com

These samples have been Previously analyzed by Alpha

Due Date:                          Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19                          ALPHA Job #: L1940717

### Report Information    Data Deliverables    Billing Information

FAX                           EMAIL                           Same as Client info    PO #: 17001426

ADEx                           Add'l Deliverables - GEI-EFWED

### Regulatory Requirements/Report Limits

State/Fed Program                          Criteria

### ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs									SAMPLE HANDLING	TOTAL # BOTTLES		
		Date	Time																			Filteration	
40717-31	E-07 (5-7)	9-4-19	1109	Soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1	
-32	E-08 (1-2)		1125			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-33	E-08 (2-3)		1130			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-34	E-08 (3-5)		1135			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-35	E-08 (5-7)		1140			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-36	D-08 (1-2)		1153			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-37	D-08 (2-3)		1156			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-38	D-08 (3-5)		1159			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-39	D-08 (5-7)		1203			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-40	D-07 (1-2)		1212			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1

Hold for approval: E-07(5-7), E-08(3-5), E-08(5-7), All D-08 samples

Container Type - - - - -  
Preservative - - - - -

FORM NO: 01-011 (N1) (Rev. 5-JAN-12)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9-6-19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 5 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
TEL: 508-898-9220    TEL: 508-822-9300  
FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Crede Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederelc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info    PO #: 17001426

GEI - EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs									SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)	TOTAL # BOTTLES	
		Date	Time																			
40717-41	D-07 (2-3)	9.4.19	1214	Soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
-42	D-07 (3-5)		1220			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-43	D-07 (5-7)		1225			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-44	D-07 (1-3)		1216			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-45	D-07 (7-9)		1230			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-46	<del>D-07</del> D-06(1-2)		1250			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-47	D-06 (2-3)		1253			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-48	D-06 (3-5)		1256			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-49	D-06 (5-7)		1259			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-50	SB-DUP-5		-			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7

Hold for approval: D-07(3-5), D-07(3-5), all D-06  
Some samples with 7 bottles indicated may be missing total Solids vial due to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9.6.19 1845
Rob Maisto	9/6/19 2040	Rob Maisto	9.6.19 1845

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# CHAIN OF CUSTODY

PAGE 6 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereassoc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Preservation  
 Lab to do  
 Lab to do (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-51	E-06 (1-2)	9.4.19	1322	Soil	SF
-52	E-06 (2-3)		1326		
-53	E-06 (3-5)		1328		
-54	E-06 (5-7)-1		1335		
-55	E-06 (1-3)		1324		
-56	E-06 (5-7)-2		1335		
-57	E-05 (1-2)		1410		
-58	E-05 (2-3)		1412		
-59	E-05 (3-5)		1414		
-60	E-05 (5-7)		1416		

Sample Specific Comments

Hold  
Hold  
Hold  
Hold

Hold: E-06 (3-5), E-06 (5-7)-1, E-05 (3-5), E-05 (5-7)  
 Some samples with 7 bottles indicated may be missing totals solids jar due to insufficient soil volume

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9.6.19 11:32
<i>[Signature]</i>	9.6.19 1844	<i>[Signature]</i>	9.6.19 1844
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9.6.19 2040

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# CHAIN OF CUSTODY

PAGE **7** OF **15**

## Project Information

Project Name: **Tombarello Site**

Project Location: **Lawrence, MA**

Project #: **17001426**

Project Manager: **Sean Gannon**

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

## Client Information

Client: **Crede Associates, LLC**

Address: **776 Main Street**

**Westbrook, Maine**

Phone: **207-828-1272**

Fax:

Email: **sgannon@crederellc.com**

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: **9/6/19** ALPHA Job #: **L1940717**

## Report Information Data Deliverables Billing Information

FAX  EMAIL  Same as Client info PO #: 17001426  
 ADEx  Add'l Deliverables **GEI\_EFWEDD**

## Regulatory Requirements/Report Limits

State/Fed Program Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												SAMPLE HANDLING
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials

ALPHA Lab ID	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
40717-61	SB-DUP-6	9-4-19	-	Soil	SF
-62	D-05 (1-2)		1430		
-63	D-05 (2-3)		1433		
-64	D-05 (3-5)		1436		
-65	D-05 (5-7)		1439		
-66	D-09 (1-2)		1450		
-67	D-09 (2-3)		1453		
-68	D-09 (3-5)		1456		
-69	D-09 (5-7)		1459		
-76	B-06 (1-2)		1515		

Hold: All D-05; D-09 (3-5, 5-7), B-06

Container Type Preservative

Relinquished By: **Rob Mont** Date/Time: **9.6.19/1132**  
 Received By: **Rob Mont** Date/Time: **9/6/19 11:32**  
 Rob Mont 9/6/19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 8 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-8300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereilc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables Billing Information

FAX  EMAIL  Same as Client info PO #: 17001426  
 ADEx  Add'l Deliverables - GEI-EFWED

## Regulatory Requirements/Report Limits

State/Fed Program Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Preservation  
 Lab to do  
 Lab to do (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-71	B-06 (2-3)	9.4.19	1518	Soil	SF
-72	B-06 (3-5)		1521		
-73	B-06 (5-7)		1524		
-74	B-07 (1-2)		1527		
-75	B-07 (2-3)		1529		
-76	B-07 (3-5)		1531		
-77	B-07 (5-7)		1533		
-78	C-07 (1-2)	9.5.19	0825		
-79	C-07 (2-3)		0830		
-80	C-07 (3-5)		0835		

Hold all B-06 pending approval  
 B-07 (3-5, 5-7), all C-07

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/11:30	<i>[Signature]</i>	9/6/19 11:30
<i>[Signature]</i>	9/6/19/1845	<i>[Signature]</i>	9.6.19/1845
<i>[Signature]</i>	9.6.19/2040	<i>[Signature]</i>	9.6.19/2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-010-NJ  
 Rev. 9-JAN-12



# CHAIN OF CUSTODY

PAGE 9 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:

ALPHA Job #:

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**SAMPLE HANDLING**  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-81	C-07(5-7)	9.5.19	0840	Soil	SF
-82	A-07(1-2)		0853		
-83	A-07(2-3)		0856		
-84	A-07(3-5)		0859		
-85	A-07(5-7)		0902		
-86	C-08(1-2)		0908		
-87	C-08(2-3)		0911		
-88	C-08(3-5)		0914		
-89	C-08(5-7)		0917		
-90	SB-DUP-4		-		

Hold for approval: C-07(5-7), all A-07 samples, C-08(3-5), C-08(5-7).

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1841
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 10 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
4077-91	B-08 (1-2)	9-5-19	0928	Soil	SF
-92	B-08 (2-3)		0930		
-93	B-08 (3-5)		0932		
-94	B-08 (5-7)		0934		
-95	C-09 (1-2)		0940		
-96	C-09 (2-3)		0942		
-97	C-09 (3-5)		0944		
-98	C-09 (5-7)		0946		
-99	B-09 (1-2)		0953		
-100	SB-DUP -3				

Held for approval: all B-08, all C-09

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1842	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

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FORM NO. 01-01(LN1)  
(rev. 5-JAN-12)



# CHAIN OF CUSTODY

PAGE 11 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Creder Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@crederllc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-101	B-09(1-3)	9.5.19	0954	Soil	SF
-102	B-09(2-3)		0955		
-103	B-09(3-5)		0957		
-104	B-09(5-7)-1		0959		
-105	B-09(5-7)-2		1002		
-106	A-06(1-2)		1033		
-107	A-06(2-3)		1036		
-108	A-06(3-5)		1039		
-109	A-06(5-7)		1042		
-110	SB-DUP-2				

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By: [Signature] Date/Time: 9.6.19/1138  
 Received By: [Signature] Date/Time: 9/6/19 11:38  
 [Signature] Date/Time: 9/6/19 1841  
 [Signature] Date/Time: 9-6-19 2040  
 [Signature] Date/Time: 9/6/19 1845  
 [Signature] Date/Time: 9-6-19 2140

- Hold for approval: B-09(3-5, 5-7)  
 - B-09(5-7)-2 no total solids as due to insufficient soil volume

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 2 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereilc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs							Sample Specific Comments	TOTAL # BOTTLES
		Date	Time																
40717-111	<del>A-05</del> B-05(1-2)	9-5-19	1048	Soil	S.F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-112	B-05(2-3)		1051			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-113	B-05(1-3)		1054			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MS/MSD	1
-114	B-05(3-5)-1		1057			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-115	B-05(3-5)-2		1057			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	7
-116	B-05(5-7)		1100			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-117	C-05(1-2)		1112			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-118	C-05(2-3)		1115			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-119	C-05(3-5)		1118			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-120	C-05(5-7)		1121			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1

- Hold for approval: B-05(3-5)-1, B-05(5-7),  
 C-05(3-5), C-05(5-7)  
 - B-05(1-3) includes vial (unc) for MS/MSD (metals)

Container Type: - - - - -  
 Preservative: - - - - -

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9-6-19/1842	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9-6-19 1845
<i>[Signature]</i>	9-6-19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.



# CHAIN OF CUSTODY

PAGE 13 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA    Mansfield, MA  
 TEL: 508-898-9220    TEL: 508-822-9300  
 FAX: 508-898-9193    FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:  Standard  Rush (ONLY IF PRE-APPROVED)  
 Email: sgannon@crederellc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/16/19

ALPHA Job #: L1940717

## Report Information Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

## Billing Information

Same as Client info PO #: 17001426

GEI - EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Lab to do  
 Preservation  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-121	C-06 (1-2)	9.5.19	1132	Soil	SF
-122	C-06 (2-3)		1134		
-123	C-06 (3-5)		1136		
-124	C-06 (5-7)		1138		
-125	A-05 (1-2)		1212		
-126	A-05 (2-3)		1214		
-127	A-05 (3-5)		1216		
-128	A-05 (5-7)		1218		
-129	E-02 (1-2)		1305		
-130	E-02 (2-3)		1308		

-Hold for approval: C-06 (3-5, 5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9.6.19/1132	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1841	<i>[Signature]</i>	9.6.19 1845
<i>[Signature]</i>	9.6.19 2040	<i>[Signature]</i>	9-6-19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO. 01-010-ANJ (rev. 9-JAN-12)



# CHAIN OF CUSTODY

PAGE 14 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA TEL: 508-898-9220  
Mansfield, MA TEL: 508-822-9300  
FAX: 508-898-9193 FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credereassoc.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L19407M

## Report Information Data Deliverables Billing Information

FAX

EMAIL

Same as Client info

PO #: 17001426

ADEX

Add'l Deliverables

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs							SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)	TOTAL # BOTTLES
		Date	Time																
40717-131	E-02 (3-5)	9.5.19	1311	Soil	SF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-132	E-02 (5-7)		1314			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-133	B-04 (1-2)		1320			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-134	B-04 (2-3)		1323			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
+135	B-04 (3-5)		1326			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-136	B-04 (5-7)		1329			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold	1
-137	SB-1 (0-0.5)		1333			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
-138	SB-1 (1-2)		1336			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7
-139	SB-1 (2-3)		1339			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MS/MSD	11
-140	SB-DV0-1					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7

- Hold for approval: E-02 (3-5, 5-7)  
- SB-1 (2-3) include;  
volume for MS/MSD (metals)

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Relinquished By: *[Signature]* Date/Time: 9.5.19/1132  
 Received By: *[Signature]* Date/Time: 9/6/19 11:32  
 Relinquished By: *[Signature]* Date/Time: 9/6/19 1845  
 Received By: *[Signature]* Date/Time: 9/6/19 1845  
 Relinquished By: *[Signature]* Date/Time: 9/6/19 2040  
 Received By: *[Signature]* Date/Time: 9-6-19 2040

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# CHAIN OF CUSTODY

PAGE 15 OF 15

## Project Information

Project Name: Tombarello Site

Project Location: Lawrence, MA

Project #: 17001426

Project Manager: Sean Gannon

ALPHA Quote #:

## Turn-Around Time

Standard  Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA  
 TEL: 508-898-9220 TEL: 508-822-9300  
 FAX: 508-898-9193 FAX: 508-822-3288

## Client Information

Client: Credere Associates, LLC

Address: 776 Main Street

Westbrook, Maine

Phone: 207-828-1272

Fax:

Email: sgannon@credere.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 9/6/19

ALPHA Job #: L1940717

## Report Information Data Deliverables Billing Information

FAX  EMAIL  
 ADEx  Add'l Deliverables

Same as Client Info PO #: 17001426

GEI-EFWEDD

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

## ANALYSIS

PCB w/ soxhlet	EPH	RCRA-8 Metals	Zinc	Hexavalent Chromium	VOCs													
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE HANDLING  
 Filtration  
 Done  
 Not Needed  
 Preservation  
 Lab to do  
 Lab to do  
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
40717-141	58-1(3-5)	9.5.19	1342	Soil	SF
-142	58-1(5-7)-1		1345		
-143	58-1(5-7)-2		1348		

Sample Specific Comments

Hold

1  
1  
7

58-1(3-5) only analyzed for PCBs  
 - Hold for approval: 58-1(5-7)

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9/6/19 11:32	<i>[Signature]</i>	9/6/19 11:32
<i>[Signature]</i>	9/6/19 1845	<i>[Signature]</i>	9/6/19 1845
<i>[Signature]</i>	9/6/19 2040	<i>[Signature]</i>	9/6/19 2040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

**Method Blank Summary  
Form 4  
Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284565-5</b>	<b>Lab File ID</b>	<b>: V23190914A05</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/14/19 09:00</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284565-3LCS	WG1284565-3	09/14/19 07:24
WG1284565-4LCSD	WG1284565-4	09/14/19 07:48
SB-2 (5-7)-2	L1940717-27	09/14/19 16:15
D-07 (1-3)	L1940717-44	09/14/19 16:39
D-07 (7-9)	L1940717-45	09/14/19 17:03

**Method Blank Summary**  
**Form 4**  
**Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284397-5</b>	<b>Lab File ID</b>	<b>: V17190914A05</b>
<b>Instrument ID</b>	<b>: VOA117</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/14/19 09:06</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284397-3LCS	WG1284397-3	09/14/19 07:48
WG1284397-4LCSD	WG1284397-4	09/14/19 08:14
SB-4 (5-7)-2	L1940717-15	09/14/19 13:27
SB-3 (1-2)	L1940717-17	09/14/19 13:53
SB-2 (1-2)	L1940717-23	09/14/19 15:11

**Method Blank Summary  
Form 4  
Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284521-5</b>	<b>Lab File ID</b>	<b>: V17190915A05</b>
<b>Instrument ID</b>	<b>: VOA117</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/15/19 14:14</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284521-3LCS	WG1284521-3	09/15/19 12:56
WG1284521-4LCSD	WG1284521-4	09/15/19 13:22
SB-4 (5-7)-2	L1940717-15	09/15/19 17:18

**Method Blank Summary**  
**Form 4**  
**Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284519-5</b>	<b>Lab File ID</b>	<b>: V17190915A05</b>
<b>Instrument ID</b>	<b>: VOA117</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/15/19 14:14</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284519-3LCS	WG1284519-3	09/15/19 12:56
WG1284519-4LCSD	WG1284519-4	09/15/19 13:22
SB-2 (2-3)	L1940717-24	09/15/19 15:07
SB-3 (5-7)-2	L1940717-21	09/15/19 15:33
SB-2 (1-2)	L1940717-23R	09/15/19 15:59

## Method Blank Summary Form 4 Volatiles

<b>Client</b> : Credere Associates, LLC <b>Project Name</b> : TOMBARELLO SITE <b>Lab Sample ID</b> : WG1284598-5 <b>Instrument ID</b> : VOA123 <b>Matrix</b> : SOIL	<b>Lab Number</b> : L1940717 <b>Project Number</b> : 17001426 <b>Lab File ID</b> : V23190915A04  <b>Analysis Date</b> : 09/15/19 17:36
---	--

Client Sample No.	Lab Sample ID	Analysis Date
WG1284598-3LCS	WG1284598-3	09/15/19 16:24
WG1284598-4LCSD	WG1284598-4	09/15/19 16:48
SB-4 (1-2)	L1940717-11	09/15/19 20:33
SB-1 (1-2)	L1940717-138	09/15/19 20:57
SB-1 (2-3)	L1940717-139	09/15/19 21:21
E-06 (1-3)	L1940717-55	09/15/19 21:45
E-06 (5-7)-2	L1940717-56	09/15/19 22:09
SB-1 (5-7)-2	L1940717-143	09/15/19 22:33
B-05 (3-5)-2	L1940717-115	09/15/19 22:57
B-09 (1-3)	L1940717-101	09/16/19 01:46

**Method Blank Summary  
Form 4  
Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284596-5</b>	<b>Lab File ID</b>	<b>: V23190915A04</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/15/19 17:36</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284596-3LCS	WG1284596-3	09/15/19 16:24
WG1284596-4LCSD	WG1284596-4	09/15/19 16:48
B-05 (1-3)	L1940717-113	09/15/19 18:32
SB-4 (2-3)	L1940717-12	09/15/19 19:20
SB-DUP-5	L1940717-50	09/15/19 19:44

**Method Blank Summary**  
**Form 4**  
**Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284780-5</b>	<b>Lab File ID</b>	<b>: V23190916A04</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/16/19 08:09</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284780-3LCS	WG1284780-3	09/16/19 06:56
WG1284780-4LCSD	WG1284780-4	09/16/19 07:20
D-07 (1-3)	L1940717-44	09/16/19 09:21



**Method Blank Summary  
Form 4  
Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284781-5</b>	<b>Lab File ID</b>	<b>: V23190916A04</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/16/19 08:09</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284781-3LCS	WG1284781-3	09/16/19 06:56
WG1284781-4LCSD	WG1284781-4	09/16/19 07:20
SB-3 (2-3)	L1940717-18	09/16/19 09:45
B-09 (5-7)-2	L1940717-105	09/16/19 10:09
SB-DUP-1	L1940717-140	09/16/19 10:33

**Method Blank Summary**  
**Form 4**  
**Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1284929-5</b>	<b>Lab File ID</b>	<b>: V23190916N04</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/16/19 20:21</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1284929-3LCS	WG1284929-3	09/16/19 19:09
WG1284929-4LCSD	WG1284929-4	09/16/19 19:33
SB-1 (1-2)	L1940717-138	09/16/19 20:46
SB-1 (5-7)-2	L1940717-143	09/16/19 21:10

**Method Blank Summary  
Form 4  
Volatiles**

<b>Client</b>	<b>: Credere Associates, LLC</b>	<b>Lab Number</b>	<b>: L1940717</b>
<b>Project Name</b>	<b>: TOMBARELLO SITE</b>	<b>Project Number</b>	<b>: 17001426</b>
<b>Lab Sample ID</b>	<b>: WG1285102-5</b>	<b>Lab File ID</b>	<b>: V23190917A05</b>
<b>Instrument ID</b>	<b>: VOA123</b>		
<b>Matrix</b>	<b>: SOIL</b>	<b>Analysis Date</b>	<b>: 09/17/19 09:02</b>

<b>Client Sample No.</b>	<b>Lab Sample ID</b>	<b>Analysis Date</b>
WG1285102-3LCS	WG1285102-3	09/17/19 07:26
WG1285102-4LCSD	WG1285102-4	09/17/19 07:50
SB-2 (5-7)-2	L1940717-27	09/17/19 12:15

# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190914A01  
 Sample No : WG1284565-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	80	-.01
Dichlorodifluoromethane	0.268	0.268	-	0	20	68	0
Chloromethane	0.275	0.309	-	-12.4	20	78	0
Vinyl chloride	0.312	0.296	-	5.1	20	64	0
Bromomethane	0.233	0.23	-	1.3	20	74	0
Chloroethane	0.235	0.204	-	13.2	20	62	0
Trichlorofluoromethane	0.429	0.407	-	5.1	20	64	0
Ethyl ether	0.143	0.115	-	19.6	20	57	0
1,1-Dichloroethene	0.214	0.196	-	8.4	20	63	0
Carbon disulfide	0.725	0.638	-	12	20	64	0
Freon-113	0.216	0.201	-	6.9	20	63	0
Acrolein	0.05	0.044*	-	12	20	65	-.01
Methylene chloride	0.28	0.222	-	20.7*	20	61	0
Acetone	20	20.299	-	-1.5	20	73	-.02
trans-1,2-Dichloroethene	0.245	0.225	-	8.2	20	64	0
Methyl acetate	0.187	0.182	-	2.7	20	69	-.02
Methyl tert-butyl ether	0.725	0.57	-	21.4*	20	55	-.01
tert-Butyl alcohol	0.038	0.028*	-	26.3*	20	53	-.01
Diisopropyl ether	0.748	0.766	-	-2.4	20	72	-.01
1,1-Dichloroethane	0.436	0.409	-	6.2	20	65	-.01
Halothane	0.182	0.164	-	9.9	20	61	-.01
Acrylonitrile	0.093	0.084	-	9.7	20	63	-.01
Ethyl tert-butyl ether	0.763	0.657	-	13.9	20	61	-.02
Vinyl acetate	0.662	0.65	-	1.8	20	70	-.01
cis-1,2-Dichloroethene	0.275	0.243	-	11.6	20	62	-.01
2,2-Dichloropropane	0.366	0.333	-	9	20	63	0
Bromochloromethane	0.134	0.119	-	11.2	20	62	-.01
Cyclohexane	0.39	0.372	-	4.6	20	65	0
Chloroform	0.43	0.395	-	8.1	20	64	-.01
Ethyl acetate	0.3	0.275	-	8.3	20	66	-.02
Carbon tetrachloride	0.331	0.31	-	6.3	20	64	-.01
Tetrahydrofuran	0.106	0.101	-	4.7	20	68	-.02
Dibromofluoromethane	0.262	0.249	-	5	20	75	0
1,1,1-Trichloroethane	0.365	0.352	-	3.6	20	64	-.01
2-Butanone	0.139	0.123	-	11.5	20	69	-.02
1,1-Dichloropropene	0.318	0.291	-	8.5	20	61	-.01
Benzene	0.959	0.855	-	10.8	20	61	-.01
tert-Amyl methyl ether	0.734	0.563	-	23.3*	20	54	-.02
1,2-Dichloroethane-d4	0.29	0.281	-	3.1	20	80	-.01
1,2-Dichloroethane	0.342	0.307	-	10.2	20	64	-.02
Methyl cyclohexane	0.415	0.346	-	16.6	20	57	-.01
Trichloroethene	0.249	0.226	-	9.2	20	62	-.01
Dibromomethane	0.164	0.14	-	14.6	20	61	-.02

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190914A01  
 Sample No : WG1284565-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.228	-	10.2	20	62	0
2-Chloroethyl vinyl ether	0.185	0.151	-	18.4	20	57	-.01
Bromodichloromethane	0.327	0.298	-	8.9	20	63	-.02
1,4-Dioxane	0.00343	0.00331*	-	3.5	20	71	-.02
cis-1,3-Dichloropropene	0.404	0.353	-	12.6	20	60	0
Chlorobenzene-d5	1	1	-	0	20	77	-.02
Toluene-d8	1.211	1.232	-	-1.7	20	78	-.02
Toluene	0.75	0.687	-	8.4	20	62	-.02
4-Methyl-2-pentanone	0.137	0.109	-	20.4*	20	55	-.02
Tetrachloroethene	0.306	0.286	-	6.5	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.403	-	9.8	20	60	-.02
Ethyl methacrylate	0.415	0.312	-	24.8*	20	51	-.02
1,1,2-Trichloroethane	0.237	0.203	-	14.3	20	58	-.01
Chlorodibromomethane	0.311	0.284	-	8.7	20	61	-.02
1,3-Dichloropropane	0.475	0.405	-	14.7	20	57	-.01
1,2-Dibromoethane	0.286	0.248	-	13.3	20	58	-.01
2-Hexanone	0.245	0.221	-	9.8	20	63	-.02
Chlorobenzene	0.845	0.78	-	7.7	20	62	-.02
Ethylbenzene	1.401	1.308	-	6.6	20	62	-.02
1,1,1,2-Tetrachloroethane	0.297	0.282	-	5.1	20	62	0
p/m Xylene	0.545	0.519	-	4.8	20	63	-.02
o Xylene	0.539	0.497	-	7.8	20	62	-.02
Styrene	0.876	0.815	-	7	20	61	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	79	-.01
Bromoform	0.424	0.341	-	19.6	20	61	-.02
Isopropylbenzene	2.578	2.412	-	6.4	20	63	-.02
4-Bromofluorobenzene	0.913	0.881	-	3.5	20	76	-.01
Bromobenzene	0.679	0.586	-	13.7	20	60	-.02
n-Propylbenzene	3.032	2.88	-	5	20	63	-.01
1,4-Dichlorobutane	0.91	0.833	-	8.5	20	65	-.01
1,1,2,2-Tetrachloroethane	0.726	0.612	-	15.7	20	56	-.01
4-Ethyltoluene	2.552	2.377	-	6.9	20	62	0
2-Chlorotoluene	2.106	1.976	-	6.2	20	64	-.01
1,3,5-Trimethylbenzene	2.162	2.036	-	5.8	20	64	-.02
1,2,3-Trichloropropane	0.612	0.505	-	17.5	20	58	-.02
trans-1,4-Dichloro-2-buten	0.212	0.203	-	4.2	20	66	0
4-Chlorotoluene	1.897	1.794	-	5.4	20	65	-.01
tert-Butylbenzene	1.876	1.735	-	7.5	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.053	-	5.5	20	64	-.02
sec-Butylbenzene	2.799	2.659	-	5	20	63	-.01
p-Isopropyltoluene	2.388	2.268	-	5	20	63	-.02
1,3-Dichlorobenzene	1.306	1.21	-	7.4	20	64	-.01
1,4-Dichlorobenzene	1.32	1.21	-	8.3	20	64	-.01

\* Value outside of QC limits.



## Calibration Verification Summary

### Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190914A01  
 Sample No : WG1284565-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.335	-	8.9	20	62	-.01
n-Butylbenzene	2.231	2.186	-	2	20	65	-.01
1,2-Dichlorobenzene	1.255	1.122	-	10.6	20	62	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.074	-	10.8	20	61	-.01
1,2-Dibromo-3-chloropropan	0.136	0.101	-	25.7*	20	54	-.01
1,3,5-Trichlorobenzene	0.913	0.842	-	7.8	20	63	-.01
Hexachlorobutadiene	0.428	0.367	-	14.3	20	59	-.01
1,2,4-Trichlorobenzene	0.862	0.789	-	8.5	20	63	-.01
Naphthalene	2.486	2.034	-	18.2	20	56	-.01
1,2,3-Trichlorobenzene	0.842	0.734	-	12.8	20	60	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190914A02  
 Sample No : WG1284397-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:48  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	51	0
Dichlorodifluoromethane	0.158	0.241	-	-52.5*	20	76	0
Chloromethane	0.23	0.305	-	-32.6*	20	72	0
Vinyl chloride	0.21	0.199	-	5.2	20	49	0
Bromomethane	0.135	0.107	-	20.7*	20	46	0
Chloroethane	0.13	0.108	-	16.9	20	45	0
Trichlorofluoromethane	0.261	0.345	-	-32.2*	20	68	0
Ethyl ether	0.092	0.071	-	22.8*	20	41	0
1,1-Dichloroethene	0.198	0.172	-	13.1	20	45	0
Carbon disulfide	0.66	0.563	-	14.7	20	46	0
Freon-113	0.194	0.189	-	2.6	20	49	0
Acrolein	0.03	0.024*	-	20	20	43	0
Methylene chloride	0.219	0.201	-	8.2	20	49	0
Acetone	20	22.413	-	-12.1	20	52	0
trans-1,2-Dichloroethene	0.229	0.217	-	5.2	20	50	0
Methyl acetate	0.094	0.101	-	-7.4	20	61	0
Methyl tert-butyl ether	0.503	0.52	-	-3.4	20	53	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	47	0
Diisopropyl ether	0.721	0.75	-	-4	20	53	0
1,1-Dichloroethane	0.421	0.458	-	-8.8	20	57	0
Halothane	0.188	0.166	-	11.7	20	46	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	58	0
Ethyl tert-butyl ether	0.703	0.725	-	-3.1	20	53	0
Vinyl acetate	0.414	0.451	-	-8.9	20	55	0
cis-1,2-Dichloroethene	0.247	0.251	-	-1.6	20	54	0
2,2-Dichloropropane	0.376	0.435	-	-15.7	20	61	0
Bromochloromethane	0.098	0.104	-	-6.1	20	55	0
Cyclohexane	0.393	0.429	-	-9.2	20	56	0
Chloroform	0.417	0.486	-	-16.5	20	60	0
Ethyl acetate	0.153	0.159	-	-3.9	20	55	0
Carbon tetrachloride	0.334	0.424	-	-26.9*	20	65	0
Tetrahydrofuran	20	22.839	-	-14.2	20	53	0
Dibromofluoromethane	0.245	0.256	-	-4.5	20	52	0
1,1,1-Trichloroethane	0.382	0.463	-	-21.2*	20	63	0
2-Butanone	20	22.643	-	-13.2	20	61	0
1,1-Dichloropropene	0.316	0.333	-	-5.4	20	55	0
Benzene	0.93	0.911	-	2	20	53	0
tert-Amyl methyl ether	0.589	0.551	-	6.5	20	48	0
1,2-Dichloroethane-d4	0.249	0.307	-	-23.3*	20	63	0
1,2-Dichloroethane	0.268	0.36	-	-34.3*	20	69	0
Methyl cyclohexane	0.395	0.386	-	2.3	20	50	0
Trichloroethene	0.248	0.261	-	-5.2	20	57	0
Dibromomethane	0.112	0.128	-	-14.3	20	58	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190914A02  
 Sample No : WG1284397-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:48  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.246	-	-8.4	20	57	0
2-Chloroethyl vinyl ether	0.109	0.111	-	-1.8	20	51	0
Bromodichloromethane	0.312	0.353	-	-13.1	20	60	0
1,4-Dioxane	0.00149	0.0013*	-	12.8	20	46	0
cis-1,3-Dichloropropene	0.358	0.379	-	-5.9	20	56	0
Chlorobenzene-d5	1	1	-	0	20	57	0
Toluene-d8	1.374	1.244	-	9.5	20	52	0
Toluene	0.82	0.789	-	3.8	20	57	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	54	0
Tetrachloroethene	0.328	0.332	-	-1.2	20	59	0
trans-1,3-Dichloropropene	0.414	0.425	-	-2.7	20	59	0
Ethyl methacrylate	0.316	0.262	-	17.1	20	49	0
1,1,2-Trichloroethane	0.186	0.184	-	1.1	20	57	0
Chlorodibromomethane	0.279	0.294	-	-5.4	20	62	0
1,3-Dichloropropane	0.389	0.386	-	0.8	20	57	0
1,2-Dibromoethane	0.215	0.213	-	0.9	20	57	0
2-Hexanone	0.142	0.124	-	12.7	20	51	0
Chlorobenzene	0.904	0.88	-	2.7	20	59	0
Ethylbenzene	1.578	1.604	-	-1.6	20	59	0
1,1,1,2-Tetrachloroethane	0.315	0.327	-	-3.8	20	63	0
p/m Xylene	0.614	0.612	-	0.3	20	59	0
o Xylene	0.596	0.584	-	2	20	58	0
Styrene	0.957	0.942	-	1.6	20	58	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Bromoform	0.312	0.316	-	-1.3	20	68	0
Isopropylbenzene	3.228	2.814	-	12.8	20	60	0
4-Bromofluorobenzene	1.085	0.913	-	15.9	20	57	0
Bromobenzene	0.692	0.636	-	8.1	20	63	0
n-Propylbenzene	3.81	3.41	-	10.5	20	62	0
1,4-Dichlorobutane	0.842	0.808	-	4	20	67	0
1,1,2,2-Tetrachloroethane	0.56	0.497	-	11.3	20	62	0
4-Ethyltoluene	3.347	2.817	-	15.8	20	59	0
2-Chlorotoluene	2.218	2.031	-	8.4	20	64	0
1,3,5-Trimethylbenzene	2.697	2.458	-	8.9	20	63	0
1,2,3-Trichloropropane	0.423	0.412	-	2.6	20	67	0
trans-1,4-Dichloro-2-buten	0.159	0.159	-	0	20	68	0
4-Chlorotoluene	2.339	2.116	-	9.5	20	63	0
tert-Butylbenzene	2.305	2.069	-	10.2	20	62	0
1,2,4-Trimethylbenzene	2.653	2.431	-	8.4	20	64	0
sec-Butylbenzene	3.508	3.195	-	8.9	20	63	0
p-Isopropyltoluene	2.943	2.695	-	8.4	20	63	0
1,3-Dichlorobenzene	1.397	1.354	-	3.1	20	67	0
1,4-Dichlorobenzene	1.386	1.341	-	3.2	20	68	0

\* Value outside of QC limits.





## Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190914A02  
 Sample No : WG1284397-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/14/19 07:48  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.558	-	15.2	20	59	0
n-Butylbenzene	2.767	2.652	-	4.2	20	66	0
1,2-Dichlorobenzene	1.247	1.203	-	3.5	20	67	0
1,2,4,5-Tetramethylbenzene	2.774	2.346	-	15.4	20	59	0
1,2-Dibromo-3-chloropropan	0.076	0.074	-	2.6	20	66	0
1,3,5-Trichlorobenzene	1.032	0.953	-	7.7	20	65	0
Hexachlorobutadiene	0.472	0.451	-	4.4	20	67	0
1,2,4-Trichlorobenzene	0.835	0.819	-	1.9	20	68	0
Naphthalene	1.699	1.485	-	12.6	20	61	0
1,2,3-Trichlorobenzene	0.731	0.719	-	1.6	20	69	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190915A02  
 Sample No : WG1284519-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 12:56  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190915A02  
 Sample No : WG1284519-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 12:56  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

\* Value outside of QC limits.



## Calibration Verification Summary

### Form 7

### Volatiles

**Client** : Credere Associates, LLC  
**Project Name** : TOMBARELLO SITE  
**Instrument ID** : VOA117  
**Lab File ID** : V17190915A02  
**Sample No** : WG1284519-2  
**Channel** :

**Lab Number** : L1940717  
**Project Number** : 17001426  
**Calibration Date** : 09/15/19 12:56  
**Init. Calib. Date(s)** : 07/26/19 07/26/19  
**Init. Calib. Times** : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190915A02  
 Sample No : WG1284521-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 12:56  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	73	0
Dichlorodifluoromethane	0.158	0.223	-	-41.1*	20	101	0
Chloromethane	0.23	0.296	-	-28.7*	20	100	0
Vinyl chloride	0.21	0.217	-	-3.3	20	76	0
Bromomethane	0.135	0.121	-	10.4	20	75	0
Chloroethane	0.13	0.123	-	5.4	20	74	0
Trichlorofluoromethane	0.261	0.334	-	-28*	20	95	0
Ethyl ether	0.092	0.074	-	19.6	20	62	0
1,1-Dichloroethene	0.198	0.185	-	6.6	20	69	0
Carbon disulfide	0.66	0.596	-	9.7	20	69	0
Freon-113	0.194	0.196	-	-1	20	74	0
Acrolein	0.03	0.028*	-	6.7	20	70	0
Methylene chloride	0.219	0.211	-	3.7	20	75	0
Acetone	20	22.121	-	-10.6	20	73	0
trans-1,2-Dichloroethene	0.229	0.218	-	4.8	20	72	0
Methyl acetate	0.094	0.098*	-	-4.3	20	85	0
Methyl tert-butyl ether	0.503	0.494	-	1.8	20	72	0
tert-Butyl alcohol	0.017	0.016*	-	5.9	20	66	0
Diisopropyl ether	0.721	0.722	-	-0.1	20	74	0
1,1-Dichloroethane	0.421	0.447	-	-6.2	20	80	0
Halothane	0.188	0.17	-	9.6	20	69	0
Acrylonitrile	0.044	0.049*	-	-11.4	20	85	0
Ethyl tert-butyl ether	0.703	0.685	-	2.6	20	71	0
Vinyl acetate	0.414	0.428	-	-3.4	20	75	0
cis-1,2-Dichloroethene	0.247	0.245	-	0.8	20	75	0
2,2-Dichloropropane	0.376	0.387	-	-2.9	20	78	0
Bromochloromethane	0.098	0.101	-	-3.1	20	77	0
Cyclohexane	0.393	0.436	-	-10.9	20	82	0
Chloroform	0.417	0.435	-	-4.3	20	77	0
Ethyl acetate	0.153	0.154	-	-0.7	20	77	0
Carbon tetrachloride	0.334	0.366	-	-9.6	20	81	0
Tetrahydrofuran	20	23.627	-	-18.1	20	79	0
Dibromofluoromethane	0.245	0.245	-	0	20	72	0
1,1,1-Trichloroethane	0.382	0.408	-	-6.8	20	80	0
2-Butanone	20	22.25	-	-11.3	20	86	0
1,1-Dichloropropene	0.316	0.325	-	-2.8	20	77	0
Benzene	0.93	0.909	-	2.3	20	77	0
tert-Amyl methyl ether	0.589	0.536	-	9	20	67	0
1,2-Dichloroethane-d4	0.249	0.253	-	-1.6	20	74	0
1,2-Dichloroethane	0.268	0.302	-	-12.7	20	84	0
Methyl cyclohexane	0.395	0.399	-	-1	20	74	0
Trichloroethene	0.248	0.254	-	-2.4	20	80	0
Dibromomethane	0.112	0.122	-	-8.9	20	80	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190915A02  
 Sample No : WG1284521-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 12:56  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.248	-	-9.3	20	82	0
2-Chloroethyl vinyl ether	0.109	0.108	-	0.9	20	71	0
Bromodichloromethane	0.312	0.325	-	-4.2	20	80	0
1,4-Dioxane	0.00149	0.00131*	-	12.1	20	66	0
cis-1,3-Dichloropropene	0.358	0.367	-	-2.5	20	78	0
Chlorobenzene-d5	1	1	-	0	20	79	0
Toluene-d8	1.374	1.246	-	9.3	20	72	0
Toluene	0.82	0.787	-	4	20	79	0
4-Methyl-2-pentanone	0.079	0.078*	-	1.3	20	76	0
Tetrachloroethene	0.328	0.323	-	1.5	20	80	0
trans-1,3-Dichloropropene	0.414	0.407	-	1.7	20	78	0
Ethyl methacrylate	0.316	0.266	-	15.8	20	69	0
1,1,2-Trichloroethane	0.186	0.185	-	0.5	20	80	0
Chlorodibromomethane	0.279	0.28	-	-0.4	20	81	0
1,3-Dichloropropane	0.389	0.391	-	-0.5	20	81	0
1,2-Dibromoethane	0.215	0.214	-	0.5	20	81	0
2-Hexanone	0.142	0.122	-	14.1	20	71	0
Chlorobenzene	0.904	0.854	-	5.5	20	80	0
Ethylbenzene	1.578	1.539	-	2.5	20	79	0
1,1,1,2-Tetrachloroethane	0.315	0.309	-	1.9	20	83	0
p/m Xylene	0.614	0.588	-	4.2	20	79	0
o Xylene	0.596	0.562	-	5.7	20	78	0
Styrene	0.957	0.909	-	5	20	78	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
Bromoform	0.312	0.311	-	0.3	20	84	0
Isopropylbenzene	3.228	2.917	-	9.6	20	78	0
4-Bromofluorobenzene	1.085	0.967	-	10.9	20	76	0
Bromobenzene	0.692	0.651	-	5.9	20	81	0
n-Propylbenzene	3.81	3.583	-	6	20	81	0
1,4-Dichlorobutane	0.842	0.824	-	2.1	20	86	0
1,1,2,2-Tetrachloroethane	0.56	0.529	-	5.5	20	83	0
4-Ethyltoluene	3.347	2.911	-	13	20	76	0
2-Chlorotoluene	2.218	2.084	-	6	20	82	0
1,3,5-Trimethylbenzene	2.697	2.49	-	7.7	20	81	0
1,2,3-Trichloropropane	0.423	0.42	-	0.7	20	85	0
trans-1,4-Dichloro-2-buten	0.159	0.156	-	1.9	20	84	0
4-Chlorotoluene	2.339	2.149	-	8.1	20	81	0
tert-Butylbenzene	2.305	2.109	-	8.5	20	79	0
1,2,4-Trimethylbenzene	2.653	2.451	-	7.6	20	81	0
sec-Butylbenzene	3.508	3.276	-	6.6	20	81	0
p-Isopropyltoluene	2.943	2.735	-	7.1	20	80	0
1,3-Dichlorobenzene	1.397	1.335	-	4.4	20	84	0
1,4-Dichlorobenzene	1.386	1.334	-	3.8	20	85	0

\* Value outside of QC limits.



## Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA117  
 Lab File ID : V17190915A02  
 Sample No : WG1284521-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 12:56  
 Init. Calib. Date(s) : 07/26/19 07/26/19  
 Init. Calib. Times : 20:19 23:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.837	1.6	-	12.9	20	76	0
n-Butylbenzene	2.767	2.69	-	2.8	20	84	0
1,2-Dichlorobenzene	1.247	1.196	-	4.1	20	84	0
1,2,4,5-Tetramethylbenzene	2.774	2.344	-	15.5	20	74	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	82	0
1,3,5-Trichlorobenzene	1.032	0.949	-	8	20	81	0
Hexachlorobutadiene	0.472	0.446	-	5.5	20	83	0
1,2,4-Trichlorobenzene	0.835	0.827	-	1	20	87	0
Naphthalene	1.699	1.538	-	9.5	20	79	0
1,2,3-Trichlorobenzene	0.731	0.714	-	2.3	20	86	0

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190915A01  
 Sample No : WG1284596-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 16:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190915A01  
 Sample No : WG1284596-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 16:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

\* Value outside of QC limits.



## Calibration Verification Summary

### Form 7

### Volatiles

**Client** : Credere Associates, LLC  
**Project Name** : TOMBARELLO SITE  
**Instrument ID** : VOA123  
**Lab File ID** : V23190915A01  
**Sample No** : WG1284596-2  
**Channel** :

**Lab Number** : L1940717  
**Project Number** : 17001426  
**Calibration Date** : 09/15/19 16:24  
**Init. Calib. Date(s)** : 06/21/19 06/21/19  
**Init. Calib. Times** : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	-0.01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	-0.01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	-0.01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	-0.01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	-0.01
Naphthalene	2.486	2.258	-	9.2	20	57	-0.01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	-0.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190915A01  
 Sample No : WG1284598-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 16:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	72	-.01
Dichlorodifluoromethane	0.268	0.296	-	-10.4	20	68	0
Chloromethane	0.275	0.353	-	-28.4*	20	81	0
Vinyl chloride	0.312	0.325	-	-4.2	20	64	0
Bromomethane	0.233	0.224	-	3.9	20	65	0
Chloroethane	0.235	0.225	-	4.3	20	62	0
Trichlorofluoromethane	0.429	0.441	-	-2.8	20	62	0
Ethyl ether	0.143	0.127	-	11.2	20	58	0
1,1-Dichloroethene	0.214	0.21	-	1.9	20	61	0
Carbon disulfide	0.725	0.693	-	4.4	20	63	0
Freon-113	0.216	0.215	-	0.5	20	61	0
Acrolein	0.05	0.053	-	-6	20	71	0
Methylene chloride	0.28	0.249	-	11.1	20	62	0
Acetone	20	24.264	-	-21.3*	20	78	-.01
trans-1,2-Dichloroethene	0.245	0.24	-	2	20	62	0
Methyl acetate	0.187	0.213	-	-13.9	20	74	-.01
Methyl tert-butyl ether	0.725	0.65	-	10.3	20	57	-.01
tert-Butyl alcohol	0.038	0.032*	-	15.8	20	54	-.01
Diisopropyl ether	0.748	0.879	-	-17.5	20	75	-.01
1,1-Dichloroethane	0.436	0.455	-	-4.4	20	66	-.01
Halothane	0.182	0.175	-	3.8	20	60	-.01
Acrylonitrile	0.093	0.097	-	-4.3	20	66	-.01
Ethyl tert-butyl ether	0.763	0.738	-	3.3	20	62	-.02
Vinyl acetate	0.662	0.756	-	-14.2	20	74	-.01
cis-1,2-Dichloroethene	0.275	0.267	-	2.9	20	62	-.01
2,2-Dichloropropane	0.366	0.368	-	-0.5	20	63	-.01
Bromochloromethane	0.134	0.13	-	3	20	61	-.01
Cyclohexane	0.39	0.411	-	-5.4	20	66	0
Chloroform	0.43	0.434	-	-0.9	20	64	-.01
Ethyl acetate	0.3	0.325	-	-8.3	20	71	-.01
Carbon tetrachloride	0.331	0.337	-	-1.8	20	64	-.01
Tetrahydrofuran	0.106	0.117	-	-10.4	20	72	-.02
Dibromofluoromethane	0.262	0.255	-	2.7	20	70	0
1,1,1-Trichloroethane	0.365	0.384	-	-5.2	20	64	-.01
2-Butanone	0.139	0.145	-	-4.3	20	74	-.02
1,1-Dichloropropene	0.318	0.32	-	-0.6	20	61	0
Benzene	0.959	0.945	-	1.5	20	61	-.01
tert-Amyl methyl ether	0.734	0.633	-	13.8	20	55	-.02
1,2-Dichloroethane-d4	0.29	0.294	-	-1.4	20	76	-.01
1,2-Dichloroethane	0.342	0.343	-	-0.3	20	64	-.01
Methyl cyclohexane	0.415	0.383	-	7.7	20	58	-.01
Trichloroethene	0.249	0.249	-	0	20	62	-.01
Dibromomethane	0.164	0.155	-	5.5	20	61	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190915A01  
 Sample No : WG1284598-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 16:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.254	-	0	20	63	0
2-Chloroethyl vinyl ether	0.185	0.171	-	7.6	20	59	-0.01
Bromodichloromethane	0.327	0.331	-	-1.2	20	64	-0.02
1,4-Dioxane	0.00343	0.003*	-	12.5	20	58	-0.02
cis-1,3-Dichloropropene	0.404	0.396	-	2	20	61	0
Chlorobenzene-d5	1	1	-	0	20	71	-0.02
Toluene-d8	1.211	1.215	-	-0.3	20	71	-0.02
Toluene	0.75	0.74	-	1.3	20	62	-0.01
4-Methyl-2-pentanone	0.137	0.131	-	4.4	20	61	-0.02
Tetrachloroethene	0.306	0.3	-	2	20	59	-0.02
trans-1,3-Dichloropropene	0.447	0.441	-	1.3	20	60	-0.01
Ethyl methacrylate	0.415	0.344	-	17.1	20	52	-0.02
1,1,2-Trichloroethane	0.237	0.221	-	6.8	20	58	-0.01
Chlorodibromomethane	0.311	0.304	-	2.3	20	60	-0.02
1,3-Dichloropropane	0.475	0.447	-	5.9	20	59	-0.02
1,2-Dibromoethane	0.286	0.271	-	5.2	20	58	-0.02
2-Hexanone	0.245	0.261	-	-6.5	20	69	-0.02
Chlorobenzene	0.845	0.839	-	0.7	20	61	-0.01
Ethylbenzene	1.401	1.407	-	-0.4	20	62	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.3	-	-1	20	61	-0.02
p/m Xylene	0.545	0.552	-	-1.3	20	62	0
o Xylene	0.539	0.529	-	1.9	20	61	-0.02
Styrene	0.876	0.878	-	-0.2	20	61	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-0.01
Bromoform	0.424	0.367	-	13.4	20	60	-0.01
Isopropylbenzene	2.578	2.613	-	-1.4	20	62	-0.02
4-Bromofluorobenzene	0.913	0.884	-	3.2	20	69	-0.01
Bromobenzene	0.679	0.626	-	7.8	20	58	-0.02
n-Propylbenzene	3.032	3.162	-	-4.3	20	63	-0.01
1,4-Dichlorobutane	0.91	0.941	-	-3.4	20	67	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.695	-	4.3	20	58	-0.01
4-Ethyltoluene	2.552	2.595	-	-1.7	20	62	-0.01
2-Chlorotoluene	2.106	2.154	-	-2.3	20	64	-0.01
1,3,5-Trimethylbenzene	2.162	2.195	-	-1.5	20	63	-0.02
1,2,3-Trichloropropane	0.612	0.571	-	6.7	20	59	-0.02
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	70	0
4-Chlorotoluene	1.897	1.962	-	-3.4	20	65	-0.01
tert-Butylbenzene	1.876	1.87	-	0.3	20	61	-0.01
1,2,4-Trimethylbenzene	2.172	2.244	-	-3.3	20	64	-0.02
sec-Butylbenzene	2.799	2.868	-	-2.5	20	62	-0.01
p-Isopropyltoluene	2.388	2.472	-	-3.5	20	63	-0.01
1,3-Dichlorobenzene	1.306	1.296	-	0.8	20	62	-0.01
1,4-Dichlorobenzene	1.32	1.316	-	0.3	20	63	-0.01

\* Value outside of QC limits.



## Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190915A01  
 Sample No : WG1284598-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/15/19 16:24  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.467	-	-0.1	20	62	-.01
n-Butylbenzene	2.231	2.421	-	-8.5	20	66	-.01
1,2-Dichlorobenzene	1.255	1.214	-	3.3	20	61	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.266	-	2.5	20	60	-.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	56	-.01
1,3,5-Trichlorobenzene	0.913	0.901	-	1.3	20	62	-.01
Hexachlorobutadiene	0.428	0.389	-	9.1	20	57	-.01
1,2,4-Trichlorobenzene	0.862	0.849	-	1.5	20	62	-.01
Naphthalene	2.486	2.258	-	9.2	20	57	-.01
1,2,3-Trichlorobenzene	0.842	0.809	-	3.9	20	60	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284781-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284781-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

\* Value outside of QC limits.



## Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284781-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	-0.01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	-0.01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	-0.01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	-0.01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	-0.01
Naphthalene	2.486	2.385	-	4.1	20	60	-0.01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	-0.01

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284780-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	71	-.01
Dichlorodifluoromethane	0.268	0.224	-	16.4	20	51	0
Chloromethane	0.275	0.31	-	-12.7	20	70	0
Vinyl chloride	0.312	0.301	-	3.5	20	59	0
Bromomethane	0.233	0.217	-	6.9	20	63	0
Chloroethane	0.235	0.219	-	6.8	20	60	0
Trichlorofluoromethane	0.429	0.453	-	-5.6	20	63	0
Ethyl ether	0.143	0.132	-	7.7	20	59	0
1,1-Dichloroethene	0.214	0.214	-	0	20	61	0
Carbon disulfide	0.725	0.681	-	6.1	20	61	0
Freon-113	0.216	0.22	-	-1.9	20	62	0
Acrolein	0.05	0.054	-	-8	20	73	0
Methylene chloride	0.28	0.252	-	10	20	62	0
Acetone	20	24.255	-	-21.3*	20	77	-.01
trans-1,2-Dichloroethene	0.245	0.247	-	-0.8	20	63	0
Methyl acetate	0.187	0.229	-	-22.5*	20	78	-.02
Methyl tert-butyl ether	0.725	0.668	-	7.9	20	58	-.01
tert-Butyl alcohol	0.038	0.035*	-	7.9	20	58	-.01
Diisopropyl ether	0.748	0.909	-	-21.5*	20	76	-.01
1,1-Dichloroethane	0.436	0.466	-	-6.9	20	66	-.01
Halothane	0.182	0.186	-	-2.2	20	63	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	68	-.01
Ethyl tert-butyl ether	0.763	0.766	-	-0.4	20	63	-.02
Vinyl acetate	0.662	0.779	-	-17.7	20	75	-.01
cis-1,2-Dichloroethene	0.275	0.27	-	1.8	20	62	-.01
2,2-Dichloropropane	0.366	0.379	-	-3.6	20	64	-.01
Bromochloromethane	0.134	0.133	-	0.7	20	62	-.01
Cyclohexane	0.39	0.428	-	-9.7	20	67	0
Chloroform	0.43	0.452	-	-5.1	20	66	-.01
Ethyl acetate	0.3	0.335	-	-11.7	20	72	-.02
Carbon tetrachloride	0.331	0.355	-	-7.3	20	66	0
Tetrahydrofuran	0.106	0.123	-	-16	20	74	-.02
Dibromofluoromethane	0.262	0.254	-	3.1	20	69	-.01
1,1,1-Trichloroethane	0.365	0.398	-	-9	20	65	-.01
2-Butanone	0.139	0.155	-	-11.5	20	78	-.02
1,1-Dichloropropene	0.318	0.332	-	-4.4	20	63	-.01
Benzene	0.959	0.971	-	-1.3	20	62	-.01
tert-Amyl methyl ether	0.734	0.657	-	10.5	20	56	-.02
1,2-Dichloroethane-d4	0.29	0.298	-	-2.8	20	75	-.02
1,2-Dichloroethane	0.342	0.359	-	-5	20	67	-.02
Methyl cyclohexane	0.415	0.391	-	5.8	20	58	-.01
Trichloroethene	0.249	0.258	-	-3.6	20	63	-.01
Dibromomethane	0.164	0.162	-	1.2	20	63	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284780-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.264	-	-3.9	20	65	-.02
2-Chloroethyl vinyl ether	0.185	0.177	-	4.3	20	60	-.01
Bromodichloromethane	0.327	0.346	-	-5.8	20	66	-.02
1,4-Dioxane	0.00343	0.00304*	-	11.4	20	58	-.02
cis-1,3-Dichloropropene	0.404	0.411	-	-1.7	20	62	0
Chlorobenzene-d5	1	1	-	0	20	70	-.02
Toluene-d8	1.211	1.205	-	0.5	20	70	-.02
Toluene	0.75	0.756	-	-0.8	20	62	-.02
4-Methyl-2-pentanone	0.137	0.133	-	2.9	20	61	-.02
Tetrachloroethene	0.306	0.314	-	-2.6	20	60	-.02
trans-1,3-Dichloropropene	0.447	0.46	-	-2.9	20	62	-.02
Ethyl methacrylate	0.415	0.365	-	12	20	54	-.02
1,1,2-Trichloroethane	0.237	0.233	-	1.7	20	61	-.01
Chlorodibromomethane	0.311	0.324	-	-4.2	20	64	-.02
1,3-Dichloropropane	0.475	0.47	-	1.1	20	61	-.01
1,2-Dibromoethane	0.286	0.286	-	0	20	61	-.02
2-Hexanone	0.245	0.269	-	-9.8	20	70	-.02
Chlorobenzene	0.845	0.869	-	-2.8	20	63	-.02
Ethylbenzene	1.401	1.469	-	-4.9	20	64	-.02
1,1,1,2-Tetrachloroethane	0.297	0.315	-	-6.1	20	63	-.02
p/m Xylene	0.545	0.575	-	-5.5	20	64	-.02
o Xylene	0.539	0.552	-	-2.4	20	62	-.02
Styrene	0.876	0.911	-	-4	20	62	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	72	-.01
Bromoform	0.424	0.386	-	9	20	63	-.02
Isopropylbenzene	2.578	2.686	-	-4.2	20	64	-.02
4-Bromofluorobenzene	0.913	0.883	-	3.3	20	69	-.01
Bromobenzene	0.679	0.647	-	4.7	20	61	-.02
n-Propylbenzene	3.032	3.237	-	-6.8	20	65	-.01
1,4-Dichlorobutane	0.91	0.983	-	-8	20	70	-.01
1,1,2,2-Tetrachloroethane	0.726	0.73	-	-0.6	20	61	-.01
4-Ethyltoluene	2.552	2.632	-	-3.1	20	63	-.01
2-Chlorotoluene	2.106	2.196	-	-4.3	20	65	-.01
1,3,5-Trimethylbenzene	2.162	2.259	-	-4.5	20	65	-.02
1,2,3-Trichloropropane	0.612	0.595	-	2.8	20	62	-.02
trans-1,4-Dichloro-2-buten	0.212	0.248	-	-17	20	74	-.02
4-Chlorotoluene	1.897	2.008	-	-5.9	20	66	-.02
tert-Butylbenzene	1.876	1.917	-	-2.2	20	62	-.01
1,2,4-Trimethylbenzene	2.172	2.277	-	-4.8	20	65	-.02
sec-Butylbenzene	2.799	2.943	-	-5.1	20	64	-.01
p-Isopropyltoluene	2.388	2.502	-	-4.8	20	64	-.02
1,3-Dichlorobenzene	1.306	1.339	-	-2.5	20	65	-.01
1,4-Dichlorobenzene	1.32	1.352	-	-2.4	20	65	-.01

\* Value outside of QC limits.



## Calibration Verification Summary Form 7 Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916A01  
 Sample No : WG1284780-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 06:56  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.468	-	-0.1	20	62	-0.01
n-Butylbenzene	2.231	2.436	-	-9.2	20	67	-0.01
1,2-Dichlorobenzene	1.255	1.253	-	0.2	20	63	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.304	-	0.9	20	62	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.119	-	12.5	20	58	-0.01
1,3,5-Trichlorobenzene	0.913	0.902	-	1.2	20	62	-0.01
Hexachlorobutadiene	0.428	0.378	-	11.7	20	56	-0.01
1,2,4-Trichlorobenzene	0.862	0.858	-	0.5	20	63	-0.01
Naphthalene	2.486	2.385	-	4.1	20	60	-0.01
1,2,3-Trichlorobenzene	0.842	0.82	-	2.6	20	62	-0.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916N01  
 Sample No : WG1284929-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 19:09  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	65	-.01
Dichlorodifluoromethane	0.268	0.319	-	-19	20	65	0
Chloromethane	0.275	0.377	-	-37.1*	20	77	0
Vinyl chloride	0.312	0.361	-	-15.7	20	64	0
Bromomethane	0.233	0.242	-	-3.9	20	63	0
Chloroethane	0.235	0.242	-	-3	20	60	0
Trichlorofluoromethane	0.429	0.48	-	-11.9	20	61	0
Ethyl ether	0.143	0.129	-	9.8	20	52	0
1,1-Dichloroethene	0.214	0.228	-	-6.5	20	59	0
Carbon disulfide	0.725	0.745	-	-2.8	20	60	0
Freon-113	0.216	0.231	-	-6.9	20	59	0
Acrolein	0.05	0.057	-	-14	20	69	0
Methylene chloride	0.28	0.259	-	7.5	20	57	0
Acetone	20	26.629	-	-33.1*	20	76	-.02
trans-1,2-Dichloroethene	0.245	0.259	-	-5.7	20	59	0
Methyl acetate	0.187	0.226	-	-20.9*	20	70	-.01
Methyl tert-butyl ether	0.725	0.638	-	12	20	50	-.01
tert-Butyl alcohol	0.038	0.034*	-	10.5	20	51	-.02
Diisopropyl ether	0.748	0.896	-	-19.8	20	68	-.01
1,1-Dichloroethane	0.436	0.481	-	-10.3	20	62	0
Halothane	0.182	0.185	-	-1.6	20	56	-.01
Acrylonitrile	0.093	0.101	-	-8.6	20	62	-.01
Ethyl tert-butyl ether	0.763	0.739	-	3.1	20	55	-.01
Vinyl acetate	0.662	0.76	-	-14.8	20	66	-.01
cis-1,2-Dichloroethene	0.275	0.277	-	-0.7	20	57	-.01
2,2-Dichloropropane	0.366	0.389	-	-6.3	20	60	0
Bromochloromethane	0.134	0.129	-	3.7	20	54	-.01
Cyclohexane	0.39	0.448	-	-14.9	20	64	0
Chloroform	0.43	0.46	-	-7	20	60	-.01
Ethyl acetate	0.3	0.33	-	-10	20	64	-.02
Carbon tetrachloride	0.331	0.357	-	-7.9	20	60	-.01
Tetrahydrofuran	0.106	0.12	-	-13.2	20	66	-.02
Dibromofluoromethane	0.262	0.253	-	3.4	20	62	0
1,1,1-Trichloroethane	0.365	0.405	-	-11	20	60	-.01
2-Butanone	0.139	0.157	-	-12.9	20	71	-.02
1,1-Dichloropropene	0.318	0.347	-	-9.1	20	59	-.01
Benzene	0.959	1	-	-4.3	20	58	-.01
tert-Amyl methyl ether	0.734	0.621	-	15.4	20	48	-.02
1,2-Dichloroethane-d4	0.29	0.286	-	1.4	20	66	-.01
1,2-Dichloroethane	0.342	0.352	-	-2.9	20	59	-.01
Methyl cyclohexane	0.415	0.405	-	2.4	20	54	-.01
Trichloroethene	0.249	0.263	-	-5.6	20	58	-.01
Dibromomethane	0.164	0.156	-	4.9	20	55	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190916N01  
 Sample No : WG1284929-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/16/19 19:09  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.258	-	-1.6	20	57	0
2-Chloroethyl vinyl ether	0.185	0.172	-	7	20	53	-0.01
Bromodichloromethane	0.327	0.342	-	-4.6	20	59	-0.02
1,4-Dioxane	0.00343	0.00322*	-	6.1	20	56	-0.02
cis-1,3-Dichloropropene	0.404	0.399	-	1.2	20	55	0
Chlorobenzene-d5	1	1	-	0	20	63	-0.01
Toluene-d8	1.211	1.219	-	-0.7	20	63	-0.02
Toluene	0.75	0.77	-	-2.7	20	57	-0.02
4-Methyl-2-pentanone	0.137	0.13	-	5.1	20	54	-0.02
Tetrachloroethene	0.306	0.316	-	-3.3	20	55	-0.01
trans-1,3-Dichloropropene	0.447	0.444	-	0.7	20	54	-0.01
Ethyl methacrylate	0.415	0.339	-	18.3	20	45	-0.02
1,1,2-Trichloroethane	0.237	0.226	-	4.6	20	53	-0.01
Chlorodibromomethane	0.311	0.31	-	0.3	20	55	-0.02
1,3-Dichloropropane	0.475	0.452	-	4.8	20	53	-0.01
1,2-Dibromoethane	0.286	0.271	-	5.2	20	51	-0.01
2-Hexanone	0.245	0.261	-	-6.5	20	61	-0.02
Chlorobenzene	0.845	0.872	-	-3.2	20	57	-0.02
Ethylbenzene	1.401	1.495	-	-6.7	20	58	-0.01
1,1,1,2-Tetrachloroethane	0.297	0.308	-	-3.7	20	55	-0.02
p/m Xylene	0.545	0.576	-	-5.7	20	57	0
o Xylene	0.539	0.554	-	-2.8	20	56	-0.01
Styrene	0.876	0.907	-	-3.5	20	56	-0.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	64	-0.01
Bromoform	0.424	0.36	-	15.1	20	52	-0.01
Isopropylbenzene	2.578	2.753	-	-6.8	20	58	-0.02
4-Bromofluorobenzene	0.913	0.892	-	2.3	20	62	-0.01
Bromobenzene	0.679	0.65	-	4.3	20	54	-0.02
n-Propylbenzene	3.032	3.344	-	-10.3	20	59	-0.01
1,4-Dichlorobutane	0.91	0.95	-	-4.4	20	60	-0.01
1,1,2,2-Tetrachloroethane	0.726	0.704	-	3	20	52	-0.01
4-Ethyltoluene	2.552	2.738	-	-7.3	20	58	0
2-Chlorotoluene	2.106	2.252	-	-6.9	20	59	-0.01
1,3,5-Trimethylbenzene	2.162	2.333	-	-7.9	20	59	-0.02
1,2,3-Trichloropropane	0.612	0.583	-	4.7	20	54	-0.01
trans-1,4-Dichloro-2-buten	0.212	0.235	-	-10.8	20	62	0
4-Chlorotoluene	1.897	2.034	-	-7.2	20	59	-0.01
tert-Butylbenzene	1.876	1.976	-	-5.3	20	57	-0.01
1,2,4-Trimethylbenzene	2.172	2.323	-	-7	20	58	-0.02
sec-Butylbenzene	2.799	3.106	-	-11	20	60	-0.01
p-Isopropyltoluene	2.388	2.608	-	-9.2	20	59	-0.02
1,3-Dichlorobenzene	1.306	1.341	-	-2.7	20	57	-0.01
1,4-Dichlorobenzene	1.32	1.342	-	-1.7	20	57	-0.01

\* Value outside of QC limits.



## Calibration Verification Summary

### Form 7

### Volatiles

**Client** : Credere Associates, LLC  
**Project Name** : TOMBARELLO SITE  
**Instrument ID** : VOA123  
**Lab File ID** : V23190916N01  
**Sample No** : WG1284929-2  
**Channel** :

**Lab Number** : L1940717  
**Project Number** : 17001426  
**Calibration Date** : 09/16/19 19:09  
**Init. Calib. Date(s)** : 06/21/19 06/21/19  
**Init. Calib. Times** : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.542	-	-5.2	20	58	-0.01
n-Butylbenzene	2.231	2.568	-	-15.1	20	62	-0.01
1,2-Dichlorobenzene	1.255	1.25	-	0.4	20	56	-0.01
1,2,4,5-Tetramethylbenzene	2.325	2.321	-	0.2	20	55	-0.01
1,2-Dibromo-3-chloropropan	0.136	0.116	-	14.7	20	50	-0.01
1,3,5-Trichlorobenzene	0.913	0.916	-	-0.3	20	56	-0.01
Hexachlorobutadiene	0.428	0.415	-	3	20	54	0
1,2,4-Trichlorobenzene	0.862	0.834	-	3.2	20	54	-0.01
Naphthalene	2.486	2.258	-	9.2	20	50	-0.01
1,2,3-Trichlorobenzene	0.842	0.788	-	6.4	20	52	-0.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190917A01  
 Sample No : WG1285102-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/17/19 07:26  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	-.01
Dichlorodifluoromethane	0.268	0.274	-	-2.2	20	71	0
Chloromethane	0.275	0.325	-	-18.2	20	85	0
Vinyl chloride	0.312	0.308	-	1.3	20	69	0
Bromomethane	0.233	0.209	-	10.3	20	69	0
Chloroethane	0.235	0.215	-	8.5	20	67	0
Trichlorofluoromethane	0.429	0.424	-	1.2	20	68	0
Ethyl ether	0.143	0.125	-	12.6	20	64	0
1,1-Dichloroethene	0.214	0.206	-	3.7	20	68	0
Carbon disulfide	0.725	0.674	-	7	20	69	0
Freon-113	0.216	0.207	-	4.2	20	66	0
Acrolein	0.05	0.051	-	-2	20	78	0
Methylene chloride	0.28	0.26	-	7.1	20	73	0
Acetone	20	22.467	-	-12.3	20	82	-.01
trans-1,2-Dichloroethene	0.245	0.236	-	3.7	20	69	0
Methyl acetate	0.187	0.21	-	-12.3	20	82	-.01
Methyl tert-butyl ether	0.725	0.625	-	13.8	20	62	-.01
tert-Butyl alcohol	0.038	0.033*	-	13.2	20	64	-.02
Diisopropyl ether	0.748	0.823	-	-10	20	79	-.01
1,1-Dichloroethane	0.436	0.43	-	1.4	20	70	-.01
Halothane	0.182	0.172	-	5.5	20	66	-.01
Acrylonitrile	0.093	0.096	-	-3.2	20	74	-.01
Ethyl tert-butyl ether	0.763	0.708	-	7.2	20	67	-.02
Vinyl acetate	0.662	0.71	-	-7.3	20	78	-.01
cis-1,2-Dichloroethene	0.275	0.255	-	7.3	20	67	-.01
2,2-Dichloropropane	0.366	0.354	-	3.3	20	69	-.01
Bromochloromethane	0.134	0.127	-	5.2	20	68	-.01
Cyclohexane	0.39	0.385	-	1.3	20	70	0
Chloroform	0.43	0.415	-	3.5	20	69	-.01
Ethyl acetate	0.3	0.303	-	-1	20	75	-.02
Carbon tetrachloride	0.331	0.326	-	1.5	20	70	0
Tetrahydrofuran	0.106	0.111	-	-4.7	20	77	-.02
Dibromofluoromethane	0.262	0.251	-	4.2	20	78	0
1,1,1-Trichloroethane	0.365	0.371	-	-1.6	20	70	-.01
2-Butanone	0.139	0.138	-	0.7	20	79	-.02
1,1-Dichloropropene	0.318	0.312	-	1.9	20	67	-.01
Benzene	0.959	0.906	-	5.5	20	67	-.01
tert-Amyl methyl ether	0.734	0.608	-	17.2	20	60	-.02
1,2-Dichloroethane-d4	0.29	0.283	-	2.4	20	82	-.01
1,2-Dichloroethane	0.342	0.331	-	3.2	20	70	-.01
Methyl cyclohexane	0.415	0.355	-	14.5	20	60	-.02
Trichloroethene	0.249	0.24	-	3.6	20	67	-.01
Dibromomethane	0.164	0.152	-	7.3	20	67	-.01

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : Credere Associates, LLC  
 Project Name : TOMBARELLO SITE  
 Instrument ID : VOA123  
 Lab File ID : V23190917A01  
 Sample No : WG1285102-2  
 Channel :

Lab Number : L1940717  
 Project Number : 17001426  
 Calibration Date : 09/17/19 07:26  
 Init. Calib. Date(s) : 06/21/19 06/21/19  
 Init. Calib. Times : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.254	0.242	-	4.7	20	68	0
2-Chloroethyl vinyl ether	0.185	0.167	-	9.7	20	65	-.01
Bromodichloromethane	0.327	0.317	-	3.1	20	69	-.02
1,4-Dioxane	0.00343	0.00325*	-	5.2	20	72	-.02
cis-1,3-Dichloropropene	0.404	0.38	-	5.9	20	66	0
Chlorobenzene-d5	1	1	-	0	20	83	-.02
Toluene-d8	1.211	1.193	-	1.5	20	81	-.02
Toluene	0.75	0.691	-	7.9	20	67	-.01
4-Methyl-2-pentanone	0.137	0.122	-	10.9	20	65	-.02
Tetrachloroethene	0.306	0.296	-	3.3	20	67	-.02
trans-1,3-Dichloropropene	0.447	0.414	-	7.4	20	66	-.01
Ethyl methacrylate	0.415	0.33	-	20.5*	20	58	-.02
1,1,2-Trichloroethane	0.237	0.209	-	11.8	20	64	-.01
Chlorodibromomethane	0.311	0.293	-	5.8	20	67	-.02
1,3-Dichloropropane	0.475	0.423	-	10.9	20	64	-.01
1,2-Dibromoethane	0.286	0.263	-	8	20	65	-.02
2-Hexanone	0.245	0.244	-	0.4	20	75	-.02
Chlorobenzene	0.845	0.798	-	5.6	20	68	-.02
Ethylbenzene	1.401	1.338	-	4.5	20	68	-.02
1,1,1,2-Tetrachloroethane	0.297	0.288	-	3	20	68	-.02
p/m Xylene	0.545	0.527	-	3.3	20	69	0
o Xylene	0.539	0.508	-	5.8	20	67	-.02
Styrene	0.876	0.829	-	5.4	20	67	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	86	-.01
Bromoform	0.424	0.354	-	16.5	20	68	-.02
Isopropylbenzene	2.578	2.443	-	5.2	20	69	-.02
4-Bromofluorobenzene	0.913	0.872	-	4.5	20	81	-.01
Bromobenzene	0.679	0.597	-	12.1	20	66	-.02
n-Propylbenzene	3.032	2.903	-	4.3	20	69	-.01
1,4-Dichlorobutane	0.91	0.866	-	4.8	20	73	-.01
1,1,2,2-Tetrachloroethane	0.726	0.644	-	11.3	20	64	-.01
4-Ethyltoluene	2.552	2.385	-	6.5	20	67	-.01
2-Chlorotoluene	2.106	1.988	-	5.6	20	70	-.01
1,3,5-Trimethylbenzene	2.162	2.059	-	4.8	20	70	-.02
1,2,3-Trichloropropane	0.612	0.538	-	12.1	20	66	-.01
trans-1,4-Dichloro-2-buten	0.212	0.221	-	-4.2	20	78	0
4-Chlorotoluene	1.897	1.816	-	4.3	20	71	-.01
tert-Butylbenzene	1.876	1.747	-	6.9	20	67	-.01
1,2,4-Trimethylbenzene	2.172	2.067	-	4.8	20	70	-.02
sec-Butylbenzene	2.799	2.638	-	5.8	20	68	-.01
p-Isopropyltoluene	2.388	2.253	-	5.7	20	68	-.02
1,3-Dichlorobenzene	1.306	1.222	-	6.4	20	70	-.01
1,4-Dichlorobenzene	1.32	1.239	-	6.1	20	71	-.01

\* Value outside of QC limits.





## Calibration Verification Summary

### Form 7

### Volatiles

**Client** : Credere Associates, LLC  
**Project Name** : TOMBARELLO SITE  
**Instrument ID** : VOA123  
**Lab File ID** : V23190917A01  
**Sample No** : WG1285102-2  
**Channel** :

**Lab Number** : L1940717  
**Project Number** : 17001426  
**Calibration Date** : 09/17/19 07:26  
**Init. Calib. Date(s)** : 06/21/19 06/21/19  
**Init. Calib. Times** : 03:09 06:33

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.466	1.352	-	7.8	20	68	-.01
n-Butylbenzene	2.231	2.158	-	3.3	20	70	-.01
1,2-Dichlorobenzene	1.255	1.149	-	8.4	20	69	-.01
1,2,4,5-Tetramethylbenzene	2.325	2.087	-	10.2	20	66	-.01
1,2-Dibromo-3-chloropropan	0.136	0.114	-	16.2	20	66	-.01
1,3,5-Trichlorobenzene	0.913	0.844	-	7.6	20	69	-.01
Hexachlorobutadiene	0.428	0.355	-	17.1	20	62	-.01
1,2,4-Trichlorobenzene	0.862	0.791	-	8.2	20	68	-.01
Naphthalene	2.486	2.175	-	12.5	20	65	-.01
1,2,3-Trichlorobenzene	0.842	0.737	-	12.5	20	65	-.01

\* Value outside of QC limits.

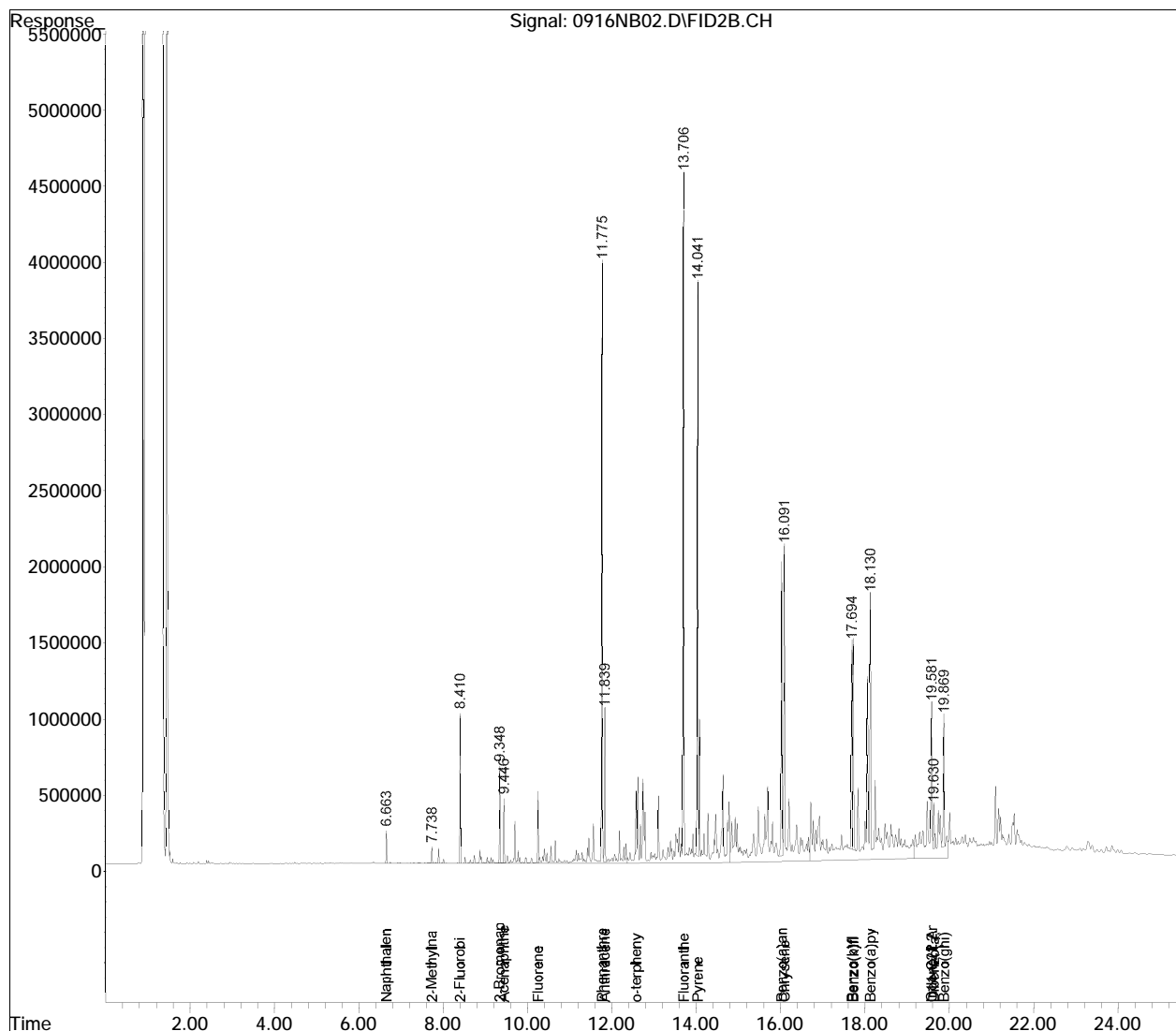


Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Petro10\190916n.sec\  
 Data File : 0916NB02.D  
 Signal(s) : FID2B.CH  
 Acq On : 17 Sep 2019 1:10 am  
 Operator : Petro10b:meo  
 Sample : 11940717-50d,42,6, rf2x fv3  
 Misc : wg1284851,wg1283558,ical12178  
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e  
 Quant Time: Sep 17 09:30:17 2019  
 Quant Method : I:\Petro10\190916n.sec\MAARO160318.M  
 Quant Title : MA EPH Aromatic  
 QLast Update : Sun Sep 15 15:13:40 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal Phase :  
 Signal Info :





Consulting June 5, 2020  
Engineers and Project 1802441  
Scientists

Ms. Ellen Bellio  
Senior Manager Waste Approvals  
Waste Management – Turnkey Recycling and Environmental Enterprises  
90 Rochester Neck Road  
Rochester, NH 03839

Dear Ms. Bellio:

**Re: Supplemental Information and Revised Profile Form for PCB-Contaminated Soil and Asphalt Disposal at Waste Management Turnkey Landfill, Rochester, NH  
WM Profile # 497552NH  
Former Tombarello Property  
Lawrence, Massachusetts  
MassDEP RTN 3-18126**

This letter and attached revised Waste Management EZ Profile Form (Appendix A) responds to Waste Management's comments on our May 1, 2020 letter. Our understanding of Waste Management's comments and the additional information required is based on our communications with Mr. Dan Walsh of W.L. French Excavating Corporation, the Contractor for the project.

Waste Management has assigned Profile # 497552NH to the soil and asphalt that is the subject of this request.

### **Clarification of Soil Data**

All soil data representative of soil proposed for disposal at Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, New Hampshire are summarized in attached Tables 1 and 3. As requested, we have added the Waste Management Profile # to the top of the tables. Laboratory sample IDs for these samples are in Tables 1 and 3 and laboratory data reports were provided in our May 1, 2020 letter. Sample IDs have been added to Section E.1. of the profile.

Table 1 reflects the results of analysis of samples collected for the purpose of comprehensive characterization for offsite disposal. Sample Lot1-DISP01 was collected from location LOT1-DISP01 in Excavation Area #1 and samples Lot1-DISP02-Grab and Lot1-DISP02-Comp were collected from Excavation Area #2 (Fig. 2). Table 3 reflects the results of analysis of samples collected from soil boring SB-2 in Excavation Area #1 for the purpose of assessment of the nature and extent of site contamination. The data from SB-2 in Excavation Area #1 summarized in Table 3 was not provided in our May 1, 2020 letter.

As documented in the Self-Implementing PCB Cleanup and Disposal Plan (SIP) dated April 2020 prepared by GEI and provided to you as an attachment to our May 1, 2020 letter, soil excavated from Excavation Area #1 is not subject to the Toxic Substances Control Act (TSCA) and is

therefore not subject to EPA approval. Soil excavated from Excavation Area #2 is subject to TSCA and EPA Approval. We understand that French provided you with a copy of EPA's May 13, 2020 Approval of the SIP. However, a copy is attached for your convenience (Appendix B).

As shown in Tables 1 and 3, the maximum PCB concentration in soil planned for disposal at TREE is 0.16 milligrams per kilogram (mg/kg) in sample Lot1-DISP-02Comp, which was a composite sample collected from locations LOT1-DISP02A, LOT1-DISP02B, and LOT1-DISP02C, collected from Excavation Area #2 (Fig. 2).

We understand that there is some confusion because the SIP indicates that the maximum PCB concentration in "Site" soil is 0.4 mg/kg and the data we are providing you indicates the maximum PCB concentration is 0.16 mg/kg. The location where approximately 0.4 mg/kg (0.444 mg/kg as reported by the laboratory) was detected was a soil boring co-located with asphalt sample AS-3 (Fig. 2) from a depth of 0 to 0.5 feet. As shown in Fig. 2, this sample is not in an area planned for excavation and is not representative of soil planned for disposal at TREE.

### **Clarification of Asphalt Data**

All asphalt data representative of asphalt proposed for disposal at TREE are summarized in attached Table 2. As requested, we have added the Waste Management Profile # to the top of the table. Laboratory sample IDs for these samples are in Table 2 and the laboratory data report was provided in our May 1, 2020 letter. Sample IDs have been added to Section E.1. of the profile.

As shown in Table 2 the maximum PCB concentration in asphalt proposed for disposal at TREE is 1.61 mg/kg, which was a duplicate sample collected from location AS-2 (Fig. 2). All asphalt planned for removal and offsite disposal is subject to TSCA and EPA approval. Fig. 2 has been updated to reflect that soil in Excavation Area #1 is not subject to TSCA and soil in Excavation Area #2 is subject to TSCA.

Based on our understanding of the property history, past use of the area where asphalt will be removed and is proposed for disposal at TREE was limited to property entrance, parking, and potentially administrative uses. Metals recycling operations did not take place on this portion of the property. Therefore, sampling of asphalt was only conducted to evaluate compliance with TSCA.

### **Clarification of Soil and Asphalt Volumes**

We estimate approximately 87 cubic yards (140 tons) of soil will be excavated for offsite disposal at TREE. Should additional soil removal be required, disposal of up to 400 tons of soil could be requested with the provided soil data.

We estimate approximately 330 cubic yards (627 tons) of asphalt will be removed for offsite disposal at TREE.

Based on the above, the total volume of soil and asphalt proposed for disposal at TREE is 417 cubic yards. Once we have received confirmation of acceptance of the material at TREE, we will finalize the Massachusetts Department of Environmental Protection (MassDEP) Bill of Lading (BOL; BWSC112) and will revise the BOL to reflect a total of 417 cubic yards of material.


**Release Abatement Measure Plan**

We expect to finalize and submit the RAM Plan to MassDEP during the week of June 8, 2020. We will submit a copy of the final RAM Plan at that time.

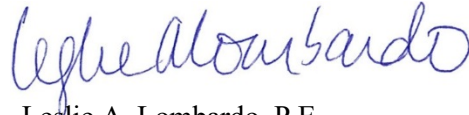
Please contact Ileen Gladstone at 781-424-9924 or [igladstone@geiconsultants.com](mailto:igladstone@geiconsultants.com) or Leslie Lombardo at 339-221-3351 or [llombardo@geiconsultants.com](mailto:llombardo@geiconsultants.com), if you have any questions regarding this letter.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP, LEED AP  
Senior Vice President



Leslie A. Lombardo, P.E.  
Project Manager

LAL/ISG;jam

Attachments

c: Pedro Soto, City of Lawrence

# Tables

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# For Profile 497552NH

**Table 1. Chemical Testing Results - Soil Disposal Characterization Samples - Lot 1**  
**Former Tombarello Site**  
**Lawrence, Massachusetts**

					Sample ID:	1802441-Lot1-DISP01	1802441-Lot1-DISP02-Grab	1802441-Lot1-DISP02-Comp
					Sample Location:	Lot1-DISP01	Lot1-DISP02B	Lot1-DISP02A, B, C (Composite)
					Sampling Date:	03/12/2020	03/12/2020	03/12/2020
					Sample Depth (ft):	1 - 7	1 - 3	1 - 3
					Lab Sample ID:	20C0466-01	20C0466-02	20C0466-03
Analyte	Method	Units	Reuse Levels for In-State Unlined Landfill	Reuse Levels for In-State Lined Landfill				
<b>Volatile Organic Compounds (VOCs)</b>	8260	mg/kg						NT
1,1,2,2-Tetrachloroethane			NS	NS	0.0059		< 0.0013	
Acetone			NS	NS	< 0.0068	G	0.123	
Methyl Ethyl Ketone (2-Butanone)			NS	NS	< 0.0068		0.0154	
Tetrachloroethene			NS	NS	0.0089		< 0.0032	
Total VOCs			4	10	0.0148		0.1384	
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	8270	mg/kg						NT
2-Methylnaphthalene			NS	NS	< 0.324			0.298
Acenaphthylene			NS	NS	< 0.752			1.4
Anthracene			NS	NS	< 1.50			2.3
Benzo(a)anthracene			NS	NS	2.28			5.58
Benzo(a)pyrene			NS	NS	2.52			5.77
Benzo(b)fluoranthene			NS	NS	2.42			4.97
Benzo(g,h,i)perylene			NS	NS	1.75			3.21
Benzo(k)fluoranthene			NS	NS	1.72			4
Chrysene			NS	NS	2.3			5.41
Dibenzo(a,h)anthracene			NS	NS	0.575			1.16
Fluoranthene			NS	NS	4.54			11.1
Fluorene			NS	NS	< 1.50			0.826
Indeno(1,2,3-cd)pyrene			NS	NS	1.5			3.07
Phenanthrene			NS	NS	2.43			8.3
Pyrene			NS	NS	4.39			10.8
Pyridine			NS	NS	<7.52			<3.44
Total SVOCs			100	100	26.425			68.194
<b>Petroleum Hydrocarbons</b>	8100M	mg/kg						NT
Total petroleum hydrocarbons			2,500	5,000	352			876
<b>Polychlorinated Biphenyls (PCBs)</b>	8082	mg/kg						NT
Aroclor 1242			NS	NS	< 0.06			0.1
Aroclor 1260			NS	NS	< 0.06			0.06
Total PCBs			2	2	ND			0.16
<b>Total Metals</b>		mg/kg						NT
Arsenic	6010		40	40	6.61			4.93
Barium	6010		NS	NS	171			57.3
Cadmium	6010		30	80	1.17			< 0.45
Chromium	6010		1000	1000	33.9			15.6
Lead	6010		1000	2000	392			185
Mercury	6010		10	10	0.559			0.059
Selenium	6010		NS	NS	< 4.41			< 4.48
Silver	6010		NS	NS	< 0.44			< 0.45
<b>TCLP Metals</b>	1311	mg/L						NT
Lead			5	5	0.281			1.26
<b>Other</b>								
pH	9045	S.U.	NS	NS	7.75		NT	7.15
Flashpoint	1010	°F	NS	NS	> 200		NT	> 200
Reactive Cyanide	7.3.3.2	mg/kg	NS	NS	< 2.0		NT	< 2.0
Reactive Sulfide	7.3.4.1	mg/kg	NS	NS	< 2.0		NT	< 2.0
Solids, Percent	2540G	%	NS	NS	88		93	93

**General Notes:**

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. Unlined and lined landfill disposal criteria are from MassDEP Policy #COMM-97-001, dated August 15, 1997.
4. NT = The sample was not tested for this analyte.
5. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
6. NS = No disposal facility criteria has been established for this analyte.
- 7 mg/kg = milligrams per kilogram
8. mg/L = milligrams per liter
- 9 S.U. = standard units.
10. deg F = degrees Fahrenheit.
11. Soil samples for VOC analysis were preserved in the field with deionized water.

**Validators Qualifiers:**

- G The result is estimated due to duplicate precision outside control limits.

**Table 2. Chemical Testing Results - Asphalt Samples**  
**Former Tombarello Site**  
**Lawrence, Massachusetts**

			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Location Name			AS-1	AS-2	AS-DUP-1	AS-3	AS-4
Sample Name			AS-1	AS-2	AS-2	AS-3	AS-4
Sample Depth (in):			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date			9/3/2019	9/3/2019	9/3/2019	9/3/2019	9/3/2019
Parent Sample					AS-2		
Lab Sample ID:			L1940717-05	L1940717-06	L1940717-09	L1940717-07	L1940717-08
Analyte	Units	CAS No.					
<b>Polychlorinated Biphenyls (PCBs)</b>	mg/kg						
Aroclor 1260		11096-82-5	0.986	0.508	1.61	0.184	0.354
Total PCBs		1336-36-3	0.986	0.508	<b>1.61</b>	0.184	0.354

**Notes:**

1. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
2. in = inches
3. mg/kg = milligrams/kilogram.
4. CAS No. = Chemical Abstracts Service Number
5. Bolding indicates the detected concentration is greater than 1 mg/kg.



**Table 3. Chemical Testing Results - Additional Soil Samples Excavation Area #1**  
**Former Tombarello Property - Lot 1, Northwest Portion**  
**Lawrence, Massachusetts**

Location Name			AS/SB-2	AS/SB-2	AS/SB-2	AS/SB-2	AS/SB-2
Sample Name			SB-2 (0-0.5)	SB-2 (1-2)	SB-2 (2-3)	SB-2 (3-5)	SB-2 (5-7)-2
Start Depth			0	1	2	3	5
End Depth			0.5	2	3	5	7
Depth Unit			ft	ft	ft	ft	ft
Sample Date			9/4/2019	9/4/2019	9/4/2019	9/4/2019	9/4/2019
Lab Sample ID			L1940717-22	L1940717-23	L1940717-24	L1940717-25	L1940717-27
Analyte	Units	CAS No.					
<b>Volatile Organic Compounds</b>	mg/kg		NT			NT	
Acetone		67-64-1		0.019	0.12		0.44 J
Total 1,2-Dichloroethene		540-59-0		< 0.00085	< 0.00097		0.13
cis-1,2-Dichloroethene		156-59-2		< 0.00085	< 0.00097		0.13
Methyl ethyl ketone (2-Butanone)		78-93-3		< 0.0085	< 0.0097		< 0.013
Naphthalene		91-20-3		0.024	< 0.0039		< 0.0053
Tetrachloroethene (PCE)		127-18-4		0.0014	0.00061		0.34
Trichloroethene (TCE)		79-01-6		< 0.00042	< 0.00048		0.13
<b>EPH Compounds</b>	mg/kg		NT			NT	
C9-C18 Aliphatics		EPH918		ND	ND		ND
C19-C36 Aliphatics		EPH1936		418	17.0		<b>56800</b>
C11-C22 Aromatics (Adjusted)		AROM11-22		265	102		1120
Acenaphthene		83-32-9		< 0.728	0.930		< 15.9
Anthracene		120-12-7		1.24	1.44		< 15.9
Benzo(a)anthracene		56-55-3		3.49	5.54		< 15.9
Benzo(b)fluoranthene		205-99-2		2.96	4.36		< 15.9
Benzo(k)fluoranthene		207-08-9		2.89	4.34		< 15.9
Benzo(g,h,i)perylene		191-24-2		1.83	2.30		< 15.9
Benzo(a)pyrene		50-32-8		3.21	4.63		< 15.9
Chrysene		218-01-9		3.46	5.61		< 15.9
Dibenz(a,h)anthracene		53-70-3		< 0.728	0.775		< 15.9
Fluoranthene		206-44-0		7.38	10.3		25.2
Fluorene		86-73-7		< 0.728	0.689		< 15.9
Indeno(1,2,3-cd)pyrene		193-39-5		2.11	2.77		< 15.9
Naphthalene		91-20-3		< 0.728	< 0.353		< 15.9
Phenanthrene		85-01-8		5.13	7.08		24.0
Pyrene		129-00-0		6.52	8.71		22.3
<b>Polychlorinated Biphenyls (PCBs)</b>	mg/kg						NT
Aroclor 1248		12672-29-6	< 0.0339	< 0.035	< 0.0363	< 0.038	
Aroclor 1254		11097-69-1	0.0403	< 0.035	< 0.0363	< 0.038	
Aroclor 1260		11096-82-5	< 0.0339	0.083	< 0.0363	< 0.038	
Aroclor 1268		11100-14-4	< 0.0339	< 0.035	< 0.0363	< 0.038	
Total PCBs		1336-36-3	0.0403	0.083	< 0.0363	< 0.038	
<b>Metals</b>	mg/kg		NT			NT	
Arsenic		7440-38-2		9.19	8.41		7.93
Barium		7440-39-3		132	98.5		126
Cadmium		7440-43-9		0.851	0.875		1.33
Chromium		7440-47-3		67.9	47.7		41.3
Hexavalent Chromium (Cr VI)		18540-29-9		< 0.885	1.13		< 0.985
Lead		7439-92-1		215	149		698
Mercury		7439-97-6		0.330	2.03		0.393
Selenium		7782-49-2		NT	NT		NT
Silver		7440-22-4		< 0.436	< 0.425		< 0.493
Zinc		7440-66-6		123	116		512
<b>Other</b>							
Percent Solids	%	SOLIDS	96.8	90.4	89.2	86.0	81.2
Oxidation Reduction Potential	millivolts	ORP	NT	140	160	NT	150
pH	s.u.	pH	NT	7.9	7.8	NT	7.6

**Notes:**

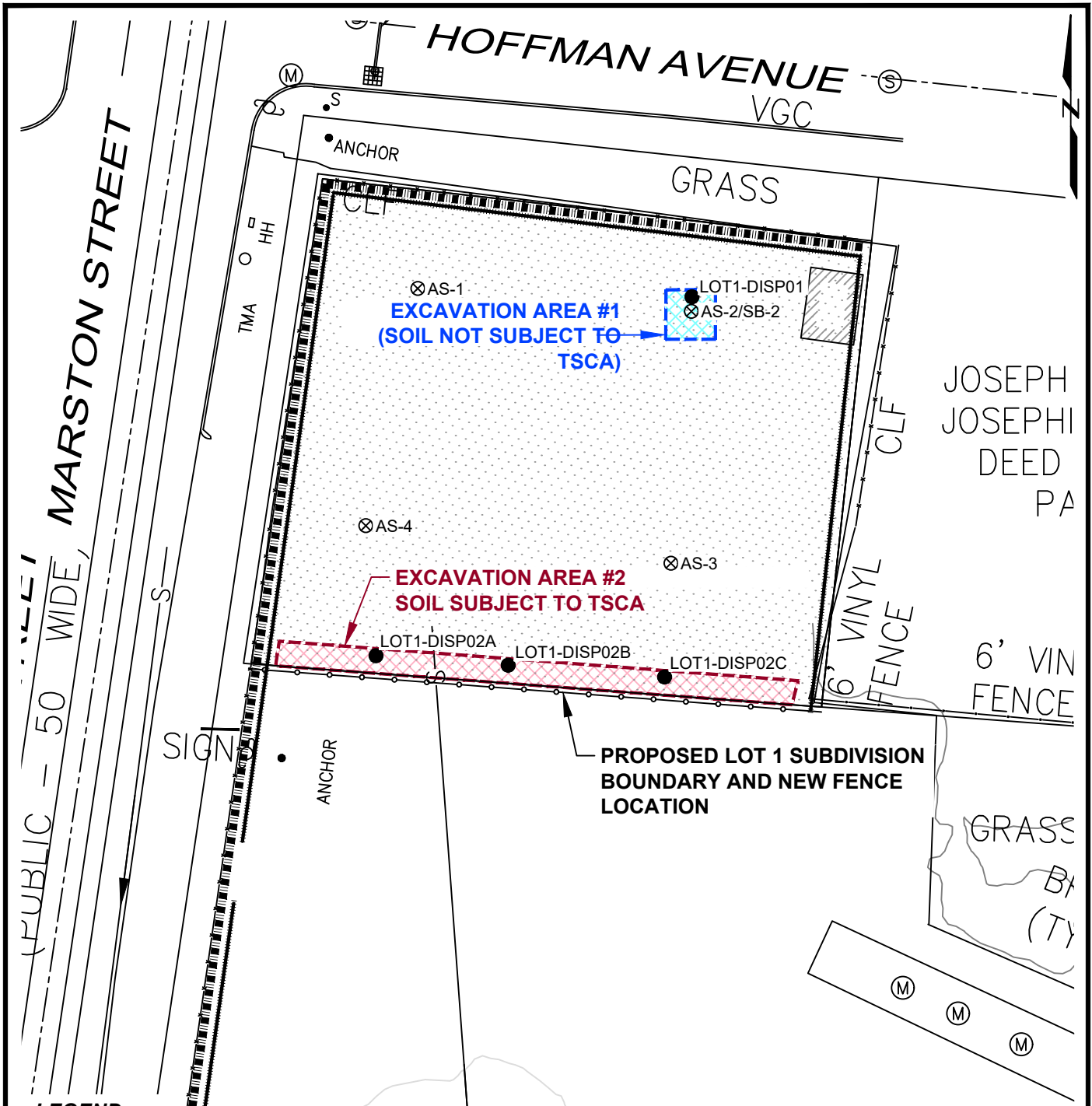
1. Only analytes detected in at least one sample are shown.
2. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. mg/kg = milligrams/kilogram or parts per million (ppm)
4. EPH = Extractable Petroleum Hydrocarbon
5. CAS No. = Chemical Abstracts Service Number
6. ND = The analyte was not detected at a concentration above the laboratory reporting limit.

**Qualifying Notes:**

- J The reported result is below the laboratory reporting limit and is estimated.

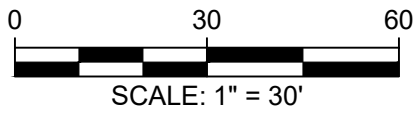
# Figure


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**LEGEND:**

- ⊗ ASPHALT SAMPLE, GEI 2020 (SOIL BORING SB-2 CO-LOCATED WITH AS-2)
- SOIL DISPOSAL CHARACTERIZATION SAMPLE, GEI 2020
- [Red hatched box] EXCAVATION AREA #2 (SOIL SUBJECT TO TSCA)
- [Blue hatched box] EXCAVATION AREA #1 (SOIL NOT SUBJECT TO TSCA)
- [Dotted box] EXTENT OF ASPHALT SURFACE COVER REMOVAL (SUBJECT TO TSCA)
- [Dashed line] PRIVACY SCREEN INSTALLED ON EXISTING FENCING



Former Tombarello Property Lawrence, Massachusetts	 <b>GEI</b> Consultants	LOT 1 EXCAVATION AREAS AND DISPOSAL SAMPLE LOCATIONS
City of Lawrence Lawrence, Massachusetts		

# **Appendix A**

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## **Waste Management EZ Profile Form - Revised**



Requested Facility: Turnkey Landfill Profile Number: 497552NH
Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: City of Lawrence
2. Site Address: 207 Marston Street (City, State, ZIP) Lawrence, MA 01841
3. County: Middlesex
4. Contact Name: Pedro Soto
5. Email: psoto@cityoflawrence.com
6. Phone: 978-620-3501 7. Fax:
8. Generator EPA ID: N/A
9. State ID: N/A

C. MATERIAL INFORMATION

- 1. Common Name: PCB Remediation Waste, PCBs <50 mg/kg; Soil and Asphalt
Describe Process Generating Material: See Attached
2. Material Composition and Contaminants: See Attached
Table with 4 rows: 1. Narrowly to widely graded sand with gravel and silty sand (max PCB conc. 0.16 mg/kg 20% in sample Lot1-DISP02-COMP... 2. Lot1-DISP02C) 3. Asphalt debris (max PCB conc. 1.61 mg/kg at AS-2) 80% 4. Trace brick and slag <1%
Total comp. must be equal to or greater than 100% >=100%
3. State Waste Codes: N/A
4. Color: brown, black, gray
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Strong Odor: No
9. Flash Point: >=200°F

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached Yes
Please identify applicable samples and/or lab reports:
For profile 497552NH Soil Sample IDs 1802441-Lot1-DISP01, 1802441-Lot1-DISP02-Grab, 1802441-Lot1-DISP02-Comp, SB-2 (0-0.5), SB-2 (1-2), SB-2 (2-3), SB-2 (3-5), and SB-2 (5-7)-2. Asphalt sample IDs: AS-1, AS-2, AS-DUP-1, AS-3, AS-4. All samples in attached Tables 1-3 are applicable.
2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Pedro Soto Date: 6/5/2020
Title: Planning Director
Company: City of Lawrence

B. BILLING INFORMATION

SAME AS GENERATOR

- 1. Billing Name: W.L. French Excavating Corp.
2. Billing Address: 14 Sterling Rd (City, State, ZIP) Billerica, MA
3. Contact Name: Dan Walsh
4. Email: dwalsh@wlfrench.com
5. Phone: 978-663-2623 6. Fax:
7. WM Hauled? Yes No
8. P.O. Number:
9. Payment Method: Credit Account Cash Credit Card

D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste? Yes\* No
Code:
2. State Hazardous Waste? Yes No
Code:
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes\* No
4. Contains Underlying Hazardous Constituents? Yes\* No
5. From an industry regulated under Benzene NESHAP? Yes\* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes\* No
7. CERCLA or State-mandated clean-up? Yes\* No
8. NRC or State-regulated radioactive or NORM waste? Yes\* No
\*If Yes, see Addendum (page 2) for additional questions and space.
9. Contains PCBs? -> If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
-> If Yes: Non-Friable Non-Friable - Regulated Friable

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 417
Tons Yards Drums Gallons Other:
3. Container Type and Size: end dump trailer
4. USDOT Proper Shipping Name: N/A

Certification Signature

Handwritten signature of Pedro Soto



**Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.**

Profile Number: \_\_\_\_\_

### C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): \_\_\_\_\_ If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	≥100%

### D. REGULATORY INFORMATION

**Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.**

**1. EPA Hazardous Waste**

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?  Yes  No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4.  Yes  No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?  Yes  No  
 → If Yes, please check **one** of the following:
  - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
  - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: \_\_\_\_\_

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:  
 Delisted Hazardous Waste       Excluded Waste under 40 CFR 261.4 → Specify Exclusion: \_\_\_\_\_  
 Treated Hazardous Waste Debris       Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

**5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.**

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.  Yes  No
- b. Does this material contain benzene?  Yes  No  
 1. If yes, what is the flow weighted average concentration? \_\_\_\_\_ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams?  <1 Mg    1–9.99 Mg    ≥10 Mg
- d. Is this waste soil from a remediation?  Yes  No  
 1. If yes, what is the benzene concentration in remediation waste? \_\_\_\_\_ ppmw
- e. Does the waste contain >10% water/moisture?  Yes  No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?  Yes  No
- g. Is material exempt from controls in accordance with 40 CFR 61.342?  Yes  No  
 → If yes, specify exemption: \_\_\_\_\_
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?  Yes  No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination?  Yes  No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: \_\_\_\_\_



# Additional Profile Information

Profile Number: \_\_\_\_\_

### C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2):

If more space is needed, please attach additional pages.

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11.	
12.	
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30.	
31.	
32.	
33.	
34.	
35.	
36.	
37.	
38.	
39.	
40.	
Total composition must be equal to or greater than 100%	
	≥100%

### D. REGULATORY INFORMATION

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

2. Form Code:

3. Source Code:



# Additional Profile Information

Profile Number: \_\_\_\_\_

## F. SHIPPING AND DOT INFORMATION

4. USDOT Proper Shipping & Technical Name (Continued from page 1):

2.	<input type="checkbox"/> N/A
3.	<input type="checkbox"/> N/A
4.	<input type="checkbox"/> N/A
5.	<input type="checkbox"/> N/A
6.	<input type="checkbox"/> N/A
7.	<input type="checkbox"/> N/A
8.	<input type="checkbox"/> N/A
9.	<input type="checkbox"/> N/A
10.	<input type="checkbox"/> N/A
11.	<input type="checkbox"/> N/A
12.	<input type="checkbox"/> N/A
13.	<input type="checkbox"/> N/A
14.	<input type="checkbox"/> N/A
15.	<input type="checkbox"/> N/A
16.	<input type="checkbox"/> N/A
17.	<input type="checkbox"/> N/A
18.	<input type="checkbox"/> N/A
19.	<input type="checkbox"/> N/A
20.	<input type="checkbox"/> N/A
21.	<input type="checkbox"/> N/A
22.	<input type="checkbox"/> N/A
23.	<input type="checkbox"/> N/A
24.	<input type="checkbox"/> N/A
25.	<input type="checkbox"/> N/A
26.	<input type="checkbox"/> N/A
27.	<input type="checkbox"/> N/A
28.	<input type="checkbox"/> N/A
29.	<input type="checkbox"/> N/A
30.	<input type="checkbox"/> N/A
31.	<input type="checkbox"/> N/A
32.	<input type="checkbox"/> N/A
33.	<input type="checkbox"/> N/A
34.	<input type="checkbox"/> N/A
35.	<input type="checkbox"/> N/A
36.	<input type="checkbox"/> N/A
37.	<input type="checkbox"/> N/A
38.	<input type="checkbox"/> N/A
39.	<input type="checkbox"/> N/A
40.	<input type="checkbox"/> N/A
41.	<input type="checkbox"/> N/A
42.	<input type="checkbox"/> N/A
43.	<input type="checkbox"/> N/A
44.	<input type="checkbox"/> N/A
45.	<input type="checkbox"/> N/A
46.	<input type="checkbox"/> N/A
47.	<input type="checkbox"/> N/A
48.	<input type="checkbox"/> N/A
49.	<input type="checkbox"/> N/A
50.	<input type="checkbox"/> N/A
51.	<input type="checkbox"/> N/A





# Additional Profile Information

Profile Number: \_\_\_\_\_

## C. MATERIAL INFORMATION

3. State Waste Codes (Continued from page 1):

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# **Appendix B**

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## **EPA Approval of Self-Implementing PCB Cleanup and Disposal Plan**



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I  
5 POST OFFICE SQUARE, SUITE 100  
BOSTON, MASSACHUSETTS 02109-3912

### VIA ELECTRONIC MAIL

The City of Lawrence  
Attn: Pedro Soto, Planning Director  
Office of Planning and Development  
12 Methuen Street  
Lawrence, Massachusetts 01840  
[psoto@cityoflawrence.com](mailto:psoto@cityoflawrence.com)

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c)  
Former Tombarello Property – Lot 1, Northwest Portion  
Lawrence, Massachusetts

Dear Mr. Soto:

This is in response to the City of Lawrence (“the City”) Notification<sup>1</sup> to address *PCB remediation waste* (i.e., PCB-contaminated soil and asphalt) in the Northwest Portion of Lot 1 (“the Site”), located at 207 Marston Street, Lawrence, Massachusetts. PCBs are present in asphalt and in certain soil at concentrations that exceed the allowable PCB level for *unrestricted use* under the federal PCB regulations at 40 CFR § 761.61(a).

The City has requested approval to clean up and dispose of *PCB remediation waste* with greater than (“>”) 1 part per million (“ppm”) PCBs located at the Site under 40 CFR §§ 761.61(a) and (c). In its Notification, the City has proposed the following work:

- Remove asphalt on the Site and dispose off-site as a less than (“<”) 50 ppm *PCB remediation waste* in a RCRA non-hazardous waste landfill in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(ii);
- Excavate soil located along the southern boundary of the Site to a depth of approximately 3-feet deep and 5-feet wide, and dispose off-site as a < 50 ppm *PCB remediation waste* in a RCRA non-hazardous waste landfill in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(ii);
- Conduct post-excavation soil sampling at a frequency of one sample every 10 linear feet along each sidewall and the excavation bottom;
- Backfill the soil excavation area with geotextile separation fabric and clean imported fill; and,

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<sup>1</sup> Information was submitted on behalf of the City by GEI Consulting Engineers & Scientists. The information was provided to satisfy the notification requirements under 40 CFR §§ 761.61(a) and (c). Information was provided dated April 2020 (Self-Implementing PCB cleanup and disposal Plan) and shall be referred to as “the Notification”.

- Construct a new fence along the proposed subdivision boundary to separate the Site from the remainder of Lot 1.

The City's plan meets the requirements as specified under 40 CFR § 761.61(a) with exception of the sampling requirements. Based on the Site history and the PCB concentrations identified, EPA has concluded that: 1) the data is sufficient to support off-site disposal of the waste; and, 2) that the proposed verification sampling is reasonable to confirm PCB concentrations remaining within the soil excavation area. EPA has determined that the use of the alternative sampling for waste disposal and for verification sampling will not present an unreasonable risk of injury to health or the environment. EPA applies this no unreasonable risk standard in accordance with the PCB regulations at 40 CFR § 761.61(c), and the Toxic Substances Control Act, at 15 USC § 2605(e).

The City may proceed with its cleanup and disposal plan in accordance with §§ 761.61(a) and (c); its Notification; and this Approval, subject to the conditions of Attachment 1. Please be aware that this Approval requires collection of at least one sample at the location where PCBs greater than (“>”) 1 ppm were identified at 5 feet from the Site southern boundary. See Attachment 1, Condition 13.a.ii.

This Approval only addresses cleanup and disposal of the *PCB remediation waste* identified in the Notification. If the City identifies other PCB-contaminated wastes within the Site area subject to cleanup and disposal under the PCB regulations, the City will be required to notify EPA and to clean up the PCB-contaminated wastes in accordance with 40 CFR Part 761 (see Approval Condition 1.) This Approval does not address PCB contamination that is located on the remainder of Lot 1 or on Lot 2 as shown in Attachment 2.

EPA encourages the compliance with greener cleanup practices for all cleanup projects and recommends adherence to the ASTM Standard Guide to Greener Cleanups E2893-16 (“Guide”) for work conducted under this Approval and the Notification. Greener Cleanups are the practice of integrating options that minimize the environmental impacts of cleanup actions in order to incorporate practices that maximize environmental and human benefit. Please see Section 6 of the Guide for the Best Management Practices (“BMP”) Process published in May 2016. (*See [www.astm.org/Standards/E2893.htm](http://www.astm.org/Standards/E2893.htm) for additional information*). EPA encourages you to review the Guide and implement any practices that are feasible. If implemented, the PCB completion report (see Attachment 1, Condition 21) should include a section on BMP Documentation, as described in Section 6.6.5 of the Guide.

Please be aware that this Approval does not release the City from any applicable requirements of federal, state or local law, including those requirements related to groundwater monitoring or to remediation of other contaminants at the Site by the Massachusetts Department of Environmental Protection (“MassDEP”).

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator  
United States Environmental Protection Agency  
5 Post Office Square, Suite 100 (LCRD7-2)  
Boston, Massachusetts 02109-3912  
Telephone: (617) 918-1527

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

Nancy Barmakian, Director  
Land, Chemicals and Redevelopment Division

Attachment 1: PCB Approval Conditions  
Attachment 2: Figure 2. Property Layout  
Attachment 3: Figure 9. Cleanup Plan

cc: Chris Lombard, EPA Brownfields Program ([Lombard.Chris@epa.gov](mailto:Lombard.Chris@epa.gov))  
MassDEP NERO, RTN: 3-18126 ([Joanne.Fagan@state.ma.us](mailto:Joanne.Fagan@state.ma.us))  
Leslie Lombardo, GEI ([LLombardo@geiconsultants.com](mailto:LLombardo@geiconsultants.com))  
File

## ATTACHMENT 1

### PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS FORMER TOMBARELLO PROPERTY - NORTHWEST PORTION LOT 1 207 MARSTON STREET / LAWRENCE, MASSACHUSETTS

#### GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB remediation waste* (i.e., asphalt and soil along the southern boundary) located in the “Northwest Portion” of Lot 1 (“the Site”) as shown on Figure 2 and Figure 9 of the Notification.<sup>2</sup> (See **Attachments 2 and 3**).
  - a. In the event that the City of Lawrence (“the City”) identifies other PCB-contaminated wastes (i.e., PCB waste not identified in the Notification) subject to cleanup and disposal under the PCB regulations, the City will be required to notify EPA and to clean up the PCB-contaminated wastes in accordance with 40 CFR Part 761.
  - b. The City may submit a separate plan to address the PCB contamination or may propose to EPA to modify the Notification to incorporate cleanup of the PCBs under this Approval in accordance with Condition 16.
2. The City shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.
3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.
4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.
5. The City must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, the City shall contact EPA within 24 hours for direction on sampling and cleanup requirements.
6. The City is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time the City has or receives information indicating that it or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

<sup>2</sup> Information was submitted on behalf of the City by GEI Consulting Engineers & Scientists. The information was provided to satisfy the notification requirements under 40 CFR §§ 761.61(a) and (c). Information was provided dated April 2020 (Self-Implementing PCB cleanup and disposal Plan) and shall be referred to as “the Notification”.

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by the City are authorized to conduct the activities set forth in the Notification. The City is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.
8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release the City from compliance with TSCA or any other applicable requirements of federal, state or local law; or 3) release the City from liability for, or otherwise resolve any violations of TSCA or of other federal, state or local law.
9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in 40 CFR § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

### **NOTIFICATION AND CERTIFICATION CONDITIONS**

10. This Approval may be revoked if the EPA does not receive written notification from the City of its acceptance of the conditions of this Approval within 10 business days of receipt.
11. The City shall notify EPA in writing of the scheduled date of commencement of on-site activities at least 1 business day prior to conducting any work under this Approval.
12. Prior to initiating onsite work under this Approval, the City shall submit the following information:
  - a. a certification signed by its selected remediation contractor, stating that the contractor has read and understands the Notification, and agrees to abide by the conditions specified in this Approval; and,
  - b. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the sample extraction, analytical and quality assurance requirements specified in the Notification and in this Approval.

### **CLEANUP AND DISPOSAL CONDITIONS**

13. The cleanup level for *PCB remediation waste* (i.e., soil) at the Site shall be less than or equal to (“≤”) 1 part per million (“ppm”).
  - a. Bulk *PCB remediation waste* (i.e., soil) verification samples shall be collected on a bulk basis (i.e., mg/Kg) and PCB analytical results reported on a dry-weight basis.
    - i) The verification sampling frequency shall be at least 1 sample every 10 linear feet, and samples shall be collected from the excavation bottom and sidewalls.

- ii) At least one sample shall be collected along the excavation sidewall area where PCBs greater than (“>”) 1 ppm were identified at approximately five feet from the Site southern boundary (i.e., SB-12 as shown on Figure 5 of the Notification).
  - b. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846 for solid matrices and Method 3500B/3510C of SW-846 for aqueous matrices; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction or analytical method(s) is validated according to Subpart Q.
14. All PCB waste (regardless of concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with § 761.40; stored in a manner prescribed in § 761.65; and, disposed of in accordance with 40 CFR § 761.61(a)(5), unless otherwise specified below:
- a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g).
  - b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).
  - c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under 40 CFR § 761.60.

### **INSPECTION, MODIFICATION AND REVOCATION CONDITIONS**

- 15. The City shall allow any authorized representative of the Administrator of the EPA to inspect the Site, to inspect records, and to take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by the City to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.
- 16. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).
- 17. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
- 18. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA’s revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.



19. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities pose an unreasonable risk of injury to health or the environment.

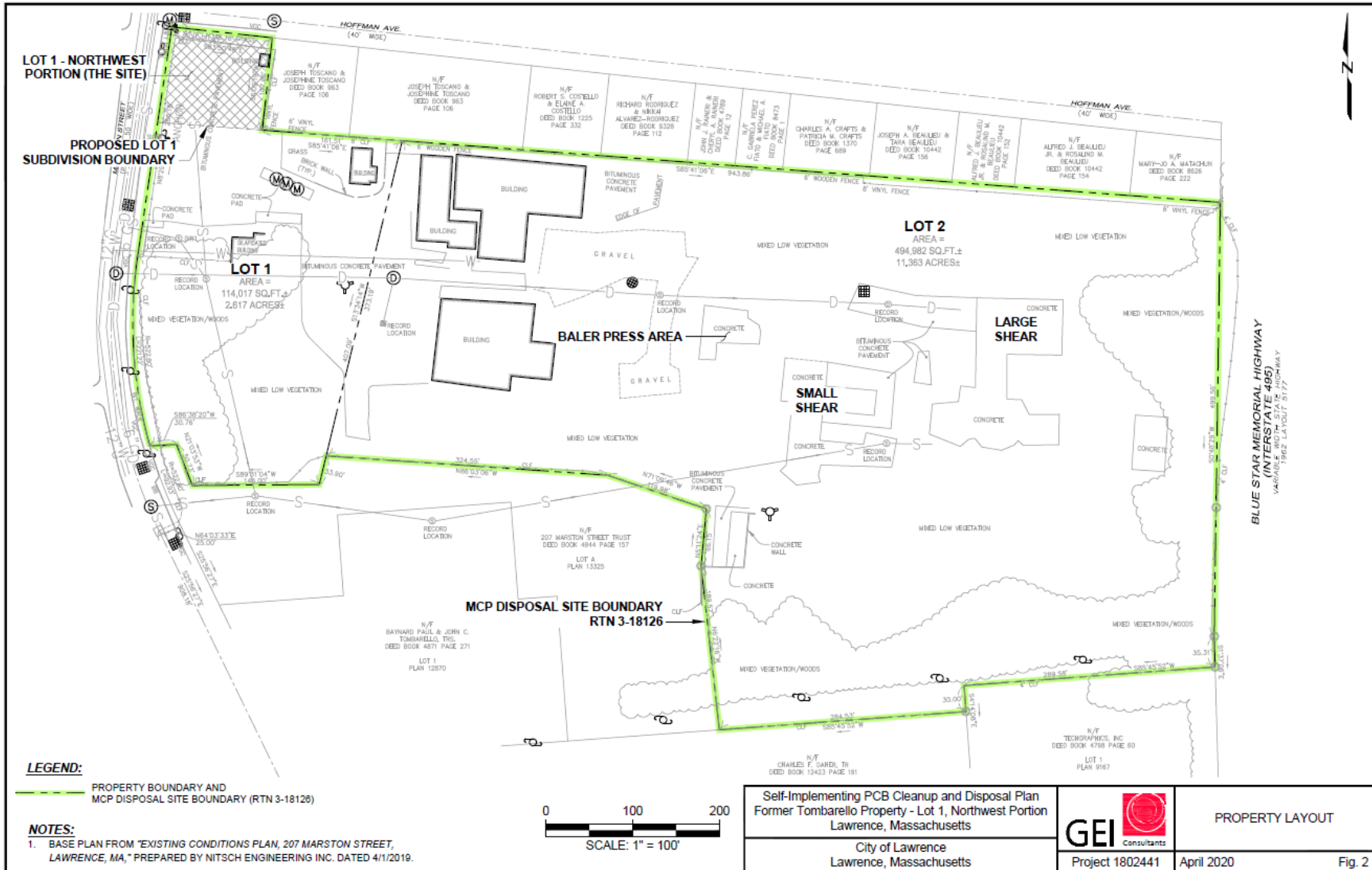
**RECORDKEEPING AND REPORTING CONDITIONS**

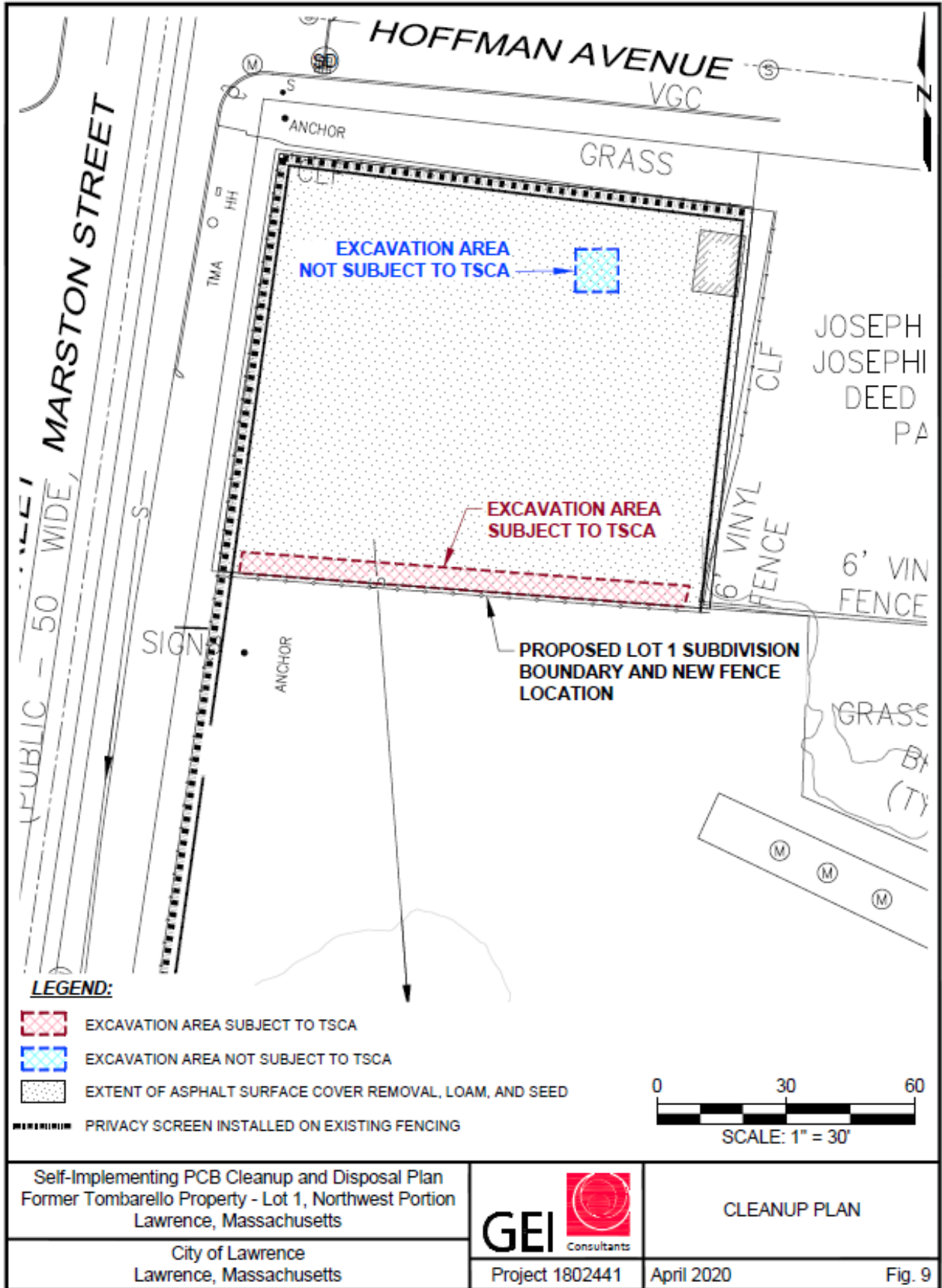
20. The City shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and the analytical sampling shall be established and maintained by the City in one centralized location until such time as EPA authorizes, in writing, an alternative disposition for such records. All records shall be made available for inspection by authorized representatives of EPA.
21. The City shall submit a final completion report as both a hard copy and electronic version (e.g., CD-ROM), to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this completion report shall include: a short narrative of the project activities with photographic documentation and Greener Cleanups BMP documentation, if implemented; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste removed and disposed off-site; copies of manifests and bills of lading; and, copies of certificates of disposal or similar certifications issued by the disposer.
22. Required submittals shall be mailed to:

Kimberly N. Tisa, PCB Coordinator  
United States Environmental Protection Agency  
5 Post Office Square, Suite 100 (LCRD7-2)  
Boston, Massachusetts 02109-3912  
Telephone: (617) 918-1527

23. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

\*\*\*\*\*  
**END OF ATTACHMENT 1**





**From:** [Lombardo, Leslie](#)  
**To:** [Dan Walsh](#)  
**Cc:** [Gladstone, Ileen](#)  
**Subject:** WM Profile# 497552NH, Fmr Tombarello Property Lot 1, Additional Information  
**Date:** Monday, June 15, 2020 5:42:00 PM

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Dan:

Please forward the below in answer to TREE's latest questions regarding the subject soil. Please let me know as soon as possible if TREE requires this information be submitted in a formal letter signed by the LSP, Ileen Gladstone, who is cc'd on this e-mail.

Ms. Bellio:

The following is in response to a request for additional clarification of soil from the Former Tombarello Property, Lot 1, Lawrence, Massachusetts, proposed for disposal at Turnkey Recycling and Environmental Enterprises (TREE) in Rochester, NH.

1. Please provide TCLP lead for samples L1940717-23, -24 and -27 [AS/SB-2 (1-2), AS-SB-2 (2-3) and AS-SB-2 (5-7)-2].

*GEI Response: As indicated in our June 5, 2020 Supplemental Information letter, soil samples collected from SB-2 and listed in Table 3 attached to our June 5, 2020 letter, including:*

*Samples L1940717-23, -24 and -27 [AS/SB-2 (1-2), AS-SB-2 (2-3) and AS-SB-2 (5-7)-2]*

*were collected for the purpose of assessment of the nature and extent of contamination and were not collected for the purpose of disposal characterization. Therefore, these samples were not tested for TCLP lead.*

*To characterize the soil in this area proposed for excavation and offsite disposal we collected soil sample Lot1-DISP01 (Lab sample ID:20C0466-01) across the depth interval 1 to 7 feet, which is representative of the soil planned for disposal at TREE. This sample was tested for TCLP lead. The results of analysis of this sample are in Table 1 of our May 1, 2020 and June 5, 2020 letters.*

2. Please provide the source of chlorinated VOCs in the three samples referenced in (1) above.

*GEI Response: We used due diligence to characterize the soil for the presence of listed hazardous waste and characteristic hazardous waste in accordance with MassDEP Policy HW93-01.*

*Chemical testing performed on the soil in samples collected from boring SB-2 indicated the presence of cis-1,2-dichloroethene, tetrachloroethylene and trichloroethene (Table 3 in our June 5, 2020 letter); however, specific sources have not been identified, therefore it is not a listed hazardous waste and a contained in determination is not required. Chemical testing performed on the soil within the area of the proposed excavation did not indicate the presence of a listed hazardous waste nor did the soil exhibit a characteristic of hazardous waste. Due diligence has included field investigations and a review of available historic documents for the site.*

Please contact me if you have any questions.  
Leslie



LESLIE A. LOMBARDO, P.E.  
Project Manager  
781.721.4016 cell: 339.221.3551  
400 Unicorn Park Drive, Woburn, MA 01801

