



July 21, 2020

Mr. David Locey  
NYS Department of Environmental Conservation  
Division of Environmental Remediation Region 9  
270 Michigan Avenue  
Buffalo NY 14203-2915

**Re: *Main and E Balcom Street Site (C915306)***  
***SMP Confirmatory SVI Assessment***  
***Buffalo New York***

Dear Mr. Locey:

On behalf of 1665 Main Street Group LLC, TurnKey Environmental Restoration, LLC (TurnKey) has prepared this Soil Vapor Intrusion (SVI) assessment summary report to detail the post-development confirmatory sampling, completed in accordance with Department's approved Site Management Plan (SMP), dated December 2019, for the Main and E Balcom Street Site (C915306).

Preliminary sampling conducted during the RI indicated "no further action (NFA)" at that time; however, due to the preliminary sampling being completed prior to optimal building conditions, the Department requested confirmatory sampling be completed after redevelopment activities were complete in the building basement and first floors.

The sampling was completed in general accordance with NYS Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006; subsequent updates) sampling protocol.

#### **Pre-sample inspection**

On March 17, 2020, representatives from 1665 Main Street Group LLC, TurnKey, and the Department completed a walk-through inspection of the basement, first floor, and upper floor residential units in preparation for confirmatory sampling.

Building construction activities have been completed in the basement including: completion of elevator, painting of the basement walls and ceiling, and installation of storage unit cages. The basement is used for storage only, with no offices and residential space present. The basement is heated by independent natural gas wall mounted heaters.

First floor inspection identified recently finished common areas including entrance hallway, stairs, elevator, and common mail room, with freshly painted walls, ceilings, and flooring installed. First floor commercial spaces were finished to pre-lease specifications with

finished masonry, painted ceilings, and independent temporary natural gas heaters. Residential units located on the upper floors (2-6) have individual HVAC for each unit.

### **Pre-Sampling Inventory**

During the inspection, a pre-sampling inventory of the basement and first floor was completed. No products were identified stored in the basement during the inspection. A copy of the inventory is attached. Photos of potential sources are included in the attached photolog.

Several potential sources of indoor air contamination were noted, including:

#### First Floor –

- Cleaning supplies (Alcohols – denatured alcohol, window cleaner, stainless cleaner),
- latex paints, two-part floor adhesive
- drywall mastic
- gasoline cans
- PVC pipe solvent and glue compounds
- Floor scarifying compound - contains petroleum constituents

Air sample locations were located similar to the original RI sampling locations, including co-located SSV20-1/Ambient20-1 and SSV20-2/Ambient20-2 in the basement, Ambient20-3 in the 1<sup>st</sup> floor commercial space, an additional 1<sup>st</sup> floor location, as requested by the Department in the new entrance-elevator hallway (Ambient20-4), and exterior ambient location (Outdoor20-1). Locations are shown on Figure 1 with preliminary RI locations shown for reference.

### **Air Sample Collection**

The air samples were collected using laboratory provided Summa® air collection canisters equipped with pre-set timed regulator to draw vapors into the canisters over an 24-hour period. Following sample collection, the canisters were delivered under chain of custody command to NYSDOH ELAP-approved laboratory for analysis of volatile organic compounds per USEPA TO-15 methodology. A copy of the laboratory analytical report is attached. A summary of the analytical results is presented in Table 1, including preliminary RI results for reference. Table 2 provides a comparison of the analytical results to the NYSDOH Matrix A, B, and C thresholds.

### **Sample Results**

The vast majority of detected air constituents were reported by the laboratory as non-detect or estimated values below the laboratory quantitation limit. Laboratory air sample analytical results are summarized on Table 1. Laboratory analytical data package is attached.

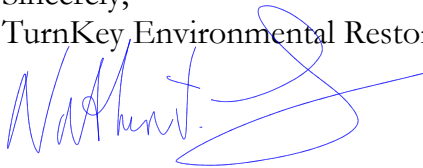
The laboratory analytical results for the compounds subject to the NYSDOH SVI Guidance were compared to their respective decision matrices (Matrix A, Matrix B, and Matrix C,

respectively) on Table 2. Based on the comparison of analytical concentrations all results indicate "No Further Action (NFA)".

Based upon the results of the sampling as summarized herein, the data do not indicate a soil vapor intrusion concern.

Please let us know if you require additional information.

Sincerely,  
TurnKey Environmental Restoration, LLC



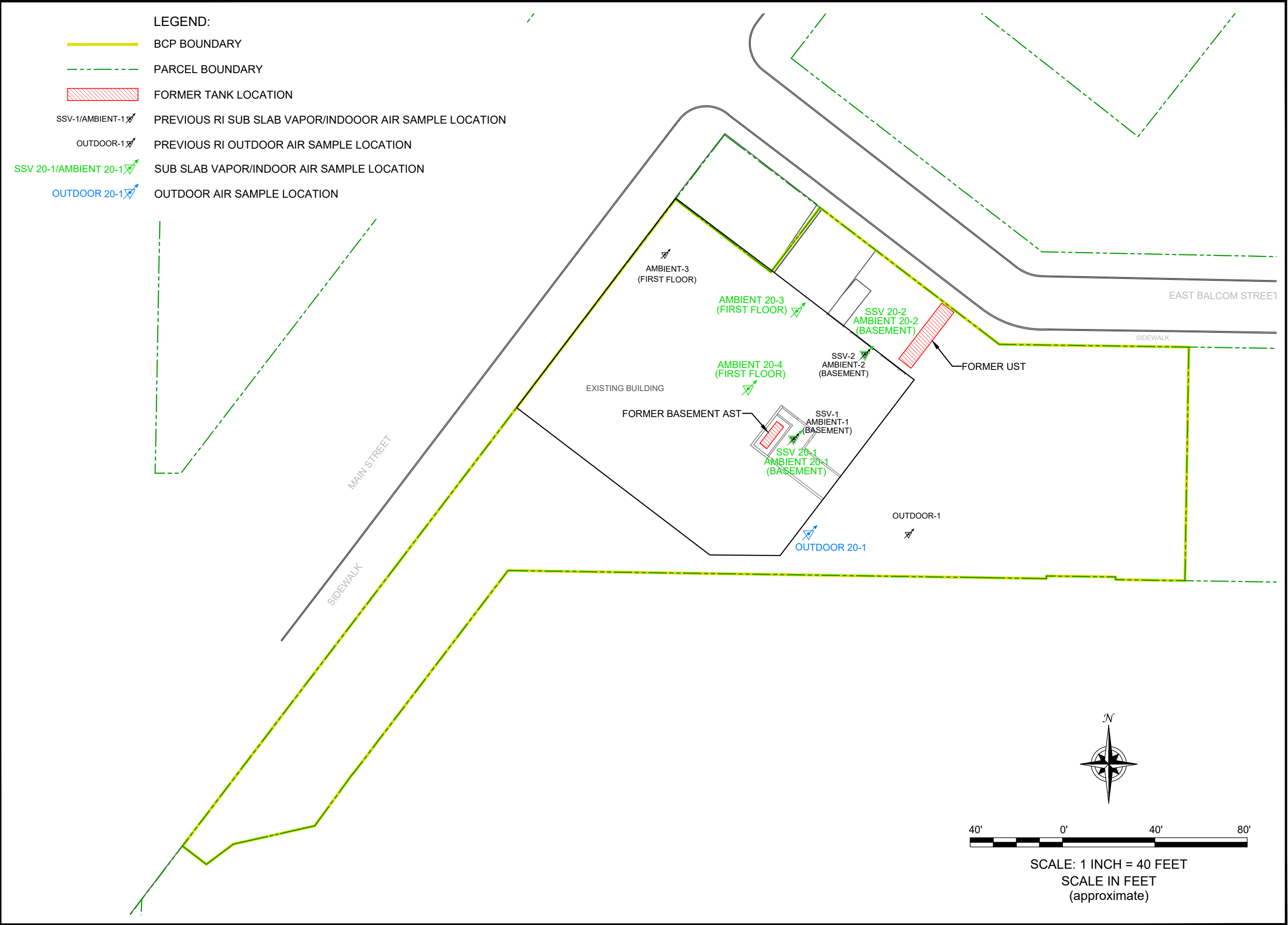
Nathan T. Munley  
Project Manager

Att.

ec:  
N. Sinatra (1665 Main Street Group)  
C. Slater Esq. (Slater Law)  
R. Ockerby (NYSDOH)

0239-016-001

Figure



- LEGEND:**
- BCP BOUNDARY
  - PARCEL BOUNDARY
  - FORMER TANK LOCATION
  - SSV-1/AMBIENT-1 PREVIOUS RI SUB SLAB VAPOR/INDOOOR AIR SAMPLE LOCATION
  - OUTDOOR-1 PREVIOUS RI OUTDOOR AIR SAMPLE LOCATION
  - SSV 20-1/AMBIENT 20-1 SUB SLAB VAPOR/INDOOOR AIR SAMPLE LOCATION
  - OUTDOOR 20-1 OUTDOOR AIR SAMPLE LOCATION

**TURNKEY**  
ENVIRONMENTAL  
RESTORATION, LLC

**BENCHMARK**  
ENVIRONMENTAL  
ENGINEERING &  
SCIENCE, PLLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0239-016-001

**SOIL VAPOR INTRUSION SAMPLE LOCATIONS**

MAIN & EAST BALCOM STREET SITE  
BCP SITE NO. C915306  
BUFFALO, NEW YORK  
PREPARED FOR  
1665 MAIN STREET GROUP, LLC

**FIGURE 1**

**DISCLAIMER: PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.**

# Tables



**TABLE 1**  
**SUMMARY OF AIR SAMPLING ANALYTICAL RESULTS**  
**MAIN & EAST BALCOM STREET SITE (BCP SITE NO. C915306)**  
**BUFFALO, NEW YORK**

Parameter <sup>1</sup>	Sample Location												
	SSV-1	AMBIENT-1	SSV-2	AMBIENT-2	AMBIENT-3	OUTDOOR	SSV 20-1	AMBIENT 20-1	SSV 20-2	AMBIENT 20-2	AMBIENT 20-3	AMBIENT 20-4	OUTDOOR 20-1
	2/12/2018						3/18/2020						
<b>Volatile Organics Compounds (VOCs) - ug/m<sup>3</sup></b>													
1,1,2-Trichloro-1,2,2-Trifluoroethane	9.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	1.34	3.22	1.17	ND	ND	ND	ND	ND	ND	ND	2.42	ND
1,3,5-Trimethylbenzene	ND	ND	1.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	ND	ND	1.36	ND	ND	ND	2.03	ND	ND	ND	ND	ND	ND
2-Butanone	11.4 J	15.3	8.2	12.6	7.76	ND	11.3	2.26	3.95	1.98	ND	2.79	ND
Acetone	R	25.4	73.6 J+	19.8	17.9	2.42 J-	35.4	39.2	13.3	20.4	9.88	18	3.9
Benzene	92.3 J	0.639	19.6	ND	0.642	ND	115	ND	14.9	ND	ND	ND	ND
Carbon disulfide	95.6 J	ND	10.7	ND	ND	ND	10.6	ND	3.52	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	0.942	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	0.793	ND	0.727	0.673	0.653	1.51	1.25	ND	1.26	1.21	1.37	1.28
Cyclohexane	1560 J	ND	29.5	ND	ND	ND	301	ND	37.9	ND	ND	ND	ND
Dichlorodifluoromethane	ND	1.94	0.999	2.21	1.58	1.54	2.19	2.73	2.05	2.61	2.46	2.45	2.38
Ethyl Alcohol	154	ND	28.5	ND	ND	ND	14.5	21.5	12.9	14.5	12.7	20.2	ND
Ethylbenzene	ND	4.33	5.13	4.56	1.56	ND	34.5	1.59	4.34	1.03	ND	9.86	ND
Isopropyl alcohol	13.2 J	1.61	3.76	1.34	ND	ND	ND	3.83	ND	3.54	3.07	3.61	ND
n-Heptane	225 J	0.877	30.1	0.857	ND	ND	319	ND	33.6	ND	ND	ND	ND
n-Hexane	1160 J	1.19	51.5	1.09	1.02	ND	222	1.4	51.8	1.36	0.804	0.881	ND
tert-Butyl alcohol	ND	6.43	1.7	5.52	2.89	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	ND	13.7	1.76	12.6	8.11	ND	ND	3.8	ND	2.34	ND	3.78	ND
Toluene	22.3	4.94	44.1	4.48	3.68	ND	35.4	ND	41.5	0.84	ND	2.68	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	1.63	ND	1.45	1.41	1.42	1.43
o-Xylene	4.78	8.17	7.3	8.38	2.88	ND	2.94	2.2	4.39	1.43	ND	13.1	ND
p/m-Xylene	16	25.2	20.3	25.1	8.56	ND	40.9	7.17	10.9	4.6	ND	45.6	ND
<b>Volatile Organics Compounds (VOCs) in SIM - ug/m<sup>3</sup></b>													
Carbon tetrachloride <sup>2</sup>	ND	0.371	ND	0.365	0.359	0.315	ND	0.459	ND	0.396	0.39	0.384	0.44
Tetrachloroethene <sup>2</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND
Trichloroethene <sup>2</sup>	ND	ND	ND	ND	ND	ND	ND	0.185	ND	0.142	ND	0.387	ND

**Notes:**

1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.
2. Constituent monitored under NYSDOH Vapor/ Indoor Air Quality Standards - (Matrices A,B,C- Updated May 2017)

**Definitions:**

- ND = Parameter not detected above laboratory detection limit.
- "-" = No value available for the parameter. Or parameter not analysed for.
- J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J+ = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- R = The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits.  
The analyte may or may not be present.



**TABLE 2**  
**COMPARISON OF AIR SAMPLING RESULTS TO NYSDOH MATRICES**  
**MAIN & EAST BALCOM STREET SITE (BCP SITE NO. C915306)**  
**BUFFALO, NEW YORK**

Sample Location	Sample Date	Trichloroethene (TCE)		Carbon Tetrachloride		cis-1,2-Dichloroethene		1,1-Dichloroethene		Tetrachloroethene (PCE)		1,1,1-Trichloroethane		Methylene Chloride		Vinyl Chloride	
		Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix A	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix B	Lab Reported Concentration (ug/m <sup>3</sup> )	Soil Vapor / Indoor Air Matrix C
SSV-1	2/12/2018	ND (< 5.37)	NFA	ND (< 6.29)	NFA	ND (< 3.96)	NFA	ND (< 4.05)	NFA	ND (< 6.78)	NFA	ND (< 5.46)	NFA	ND (< 8.69)	NFA	ND (< 2.56)	NFA
AMBIENT - 1		ND (< 0.107)		0.371		ND (< 0.079)		ND (< 0.079)		ND (< 0.136)		ND (< 0.109)		ND (< 0.051)			
SSV-2	2/12/2018	ND (< 1.07)	NFA	ND (< 1.26)	NFA	ND (< 0.793)	NFA	ND (< 0.793)	NFA	ND (< 1.36)	NFA	ND (< 1.09)	NFA	ND (< 1.74)	NFA	ND (< 0.511)	NFA
AMBIENT - 2		ND (< 0.107)		0.365		ND (< 0.079)		ND (< 0.079)		ND (< 0.136)		ND (< 0.109)		ND (< 0.051)			
SSV 20-1	3/18/2020	ND (<1.07)	NFA	ND (<1.26)	NFA	ND (<0.793)	NFA	ND (<0.793)	NFA	ND (<1.36)	NFA	ND (<1.09)	NFA	ND (<1.74)	NFA	ND (<0.511)	NFA
AMBIENT 20-1		0.185		0.459		ND (< 0.109)		ND (< 0.109)		ND (< 0.186)		ND (< 0.15)		ND (< 2.39)			
SSV 20-2	3/18/2020	ND (<1.07)	NFA	ND (<1.26)	NFA	ND (<0.793)	NFA	ND (<0.793)	NFA	ND (<1.36)	NFA	ND (< 0.109)	NFA	ND (<1.74)	NFA	ND (<0.511)	NFA
AMBIENT 20-2		0.14		0.396		ND (< 0.079)		ND (< 0.079)		0.142		ND (< 0.109)		ND (< 1.74)			

**Notes:**  
 ND = Not Detect. Value in "()" is the detection limit reported by the laboratory.  
 NFA = No further action.  
 I, R = Take reasonable and practical actions to identify source(s) and reduce exposures.

  = NYSDOH Matrix A Compounds  
  = NYSDOH Matrix B Compounds  
  = NYSDOH Matrix C Compounds

**Analytes Assigned:**  
 Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), Carbon Tetrachloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )		
	< 0.2	0.2 to 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

**Analytes Assigned:**  
 Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )		
	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

**Analytes Assigned:**  
 Vinyl Chloride

SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m <sup>3</sup> )	
	< 0.2	0.2 and above
< 6	1. No further action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	3. MONITOR	4. MITIGATE
60 and above	5. MITIGATE	6. MITIGATE



# Attachment 1

## Building Inventory

# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Project Name: Main + Balcom Project No. \_\_\_\_\_  
 Project Location: Buffalo, NY Client: SINatra Real Estate  
 Preparer's Name: NICK SURAY Date/Time: 3/17/20 11:30 AM  
 Preparer's Affiliation: Consultant Phone No: 716-718-3437

**Purpose of Investigation:**

1. OCCUPANT: None

Interviewed: yes  no

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

Number of Occupants/persons at this location: \_\_\_\_\_ Age of Occupants: \_\_\_\_\_

2. OWNER OR LANDLORD: (check if same as occupant )

Interviewed:  yes  no

Last Name: Zawilski First Name: TIM

Address: 672 main st Buffalo NY 14203

County: Erie

Home Phone: \_\_\_\_\_ Office Phone: 716-574-6585

3. BUILDING CHARACTERISTICS

Type of Building: check appropriate response)

- Residential  School  Commercial/Multi-use  
 Industrial  Church  Other:

If the property is residential, type? (check appropriate response)

- Ranch  2-Family  3-Family  
 Raised Ranch  Split Level  Colonial  
 Cape Cod  Contemporary  Mobile Home  
 Duplex  Apartment House  Townhouse/Condo  
 Modular  Log Home  Other:

If multiple units, how many? 50 apartments 3 commercial

If the property is commercial, type?

Business Type(s): \_\_\_\_\_

Does it include residences (i.e., multi-use)?  yes  no If yes, how many? 50

Other Characteristics:

Number of floors 6-7 Building age 50+ 1904  
 Is the building insulated?  yes  no How air tight?  tight  average  not tight

4. AIR FLOW

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Use air current tubes or tracer smoke to evaluate air flow patterns and qualitatively describe:

Airflow between floors

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Airflow near source

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Outdoor air infiltration

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Infiltration into air ducts

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### 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (check all that apply)

- |                              |                                     |                                     |   |
|------------------------------|-------------------------------------|-------------------------------------|---|
| a. Above grade construction: | <input type="checkbox"/> wood frame | <input type="checkbox"/> concrete   | <input type="checkbox"/> stone              |
| b. Basement type:            | <input type="checkbox"/> full       | <input type="checkbox"/> crawlspace | <input type="checkbox"/> slab               |
| c. Basement floor:           | <input type="checkbox"/> concrete   | <input type="checkbox"/> dirt       | <input type="checkbox"/> stone              |
| d. Basement floor:           | <input type="checkbox"/> uncovered  | <input type="checkbox"/> covered    | <input type="checkbox"/> covered with       |
| e. Concrete floor:           | <input type="checkbox"/> unsealed   | <input type="checkbox"/> sealed     | <input type="checkbox"/> sealed with        |
| f. Foundation walls:         | <input type="checkbox"/> poured     | <input type="checkbox"/> block      | <input type="checkbox"/> stone              |
| g. Foundation walls:         | <input type="checkbox"/> unsealed   | <input type="checkbox"/> sealed     | <input type="checkbox"/> sealed with        |
| h. The basement is:          | <input type="checkbox"/> wet        | <input type="checkbox"/> damp       | <input type="checkbox"/> dry                |
| i. The basement is:          | <input type="checkbox"/> finished   | <input type="checkbox"/> unfinished | <input type="checkbox"/> partially finished |
| j. Sump present?             | <input type="checkbox"/> yes        | <input type="checkbox"/> no         |   |
| k. Water in Sump?            | <input type="checkbox"/> yes        | <input type="checkbox"/> no         | <input type="checkbox"/> not applicable     |

Basement/Lowest level depth below grade:

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Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

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### 6. HEATING, VENTING, and AIR CONDITIONING (check all that apply)

**Type of heating system(s) used in this building:** (check all that apply - note primary)

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Hot air circulation | <input type="checkbox"/> Heat pump       | <input type="checkbox"/> Hot water baseboard |
| <input type="checkbox"/> Space Heaters                  | <input type="checkbox"/> Steam radiation | <input type="checkbox"/> Radiant floor       |
| <input type="checkbox"/> Electric baseboard             | <input type="checkbox"/> Wood stove      | <input type="checkbox"/> Outdoor wood boiler |
|   | <input type="checkbox"/> Other           | _____  |

**The primary type of fuel used is:**

- |   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Natural Gas | <input type="checkbox"/> Fuel oil | <input type="checkbox"/> Kerosene |
| <input type="checkbox"/> Electric               | <input type="checkbox"/> Propane  | <input type="checkbox"/> Solar    |
| <input type="checkbox"/> Wood                   | <input type="checkbox"/> Coal     | <input type="checkbox"/> Other    |

**Domestic hot water tank fueled by:** \_\_\_\_\_

**Boiler/furnace located in:**

- |                                   |  |                                     |                                |
|-----------------------------------|--|-------------------------------------|--------------------------------|
| <input type="checkbox"/> Basement | <input checked="" type="checkbox"/> Outdoors | <input type="checkbox"/> Main Floor | <input type="checkbox"/> Other |
|-----------------------------------|--|-------------------------------------|--------------------------------|

**Air Conditioning:**

- |   |                                       |                                       |                               |
|---|---------------------------------------|---------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Central Air | <input type="checkbox"/> Window units | <input type="checkbox"/> Open Windows | <input type="checkbox"/> None |
|---|---------------------------------------|---------------------------------------|-------------------------------|

**Are there air distribution ducts present?**     yes     no

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

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**7. OCCUPANCY**

**Is basement/lowest level occupied?**     Full-time     Occasionally     Seldom     Almost Never

**Level      General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, storage)**

Basement	Storage
First Floor	Common
Second Floor	res
Third Floor	res
Fourth Floor	res

**8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY**

a. Is there an attached garage?     yes     no

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

- b. Does the garage have a separate heating unit?  yes  no  NA
- c. Are petroleum-powered machines or vehicles stored in the garage?  yes  no  NA  
 (e.g., lawnmower, atv, car) If yes, please specify: \_\_\_\_\_
- d. Has the building ever had a fire?  yes  no  
 If yes, when? \_\_\_\_\_
- e. Is a kerosene or unvented gas space heater present?  yes  no  
 If yes, where? \_\_\_\_\_
- f. Is there a workshop or hobby/craft area?  yes  no  
 If yes, where and type? \_\_\_\_\_
- g. Is there smoking in the building?  yes  no  
 If yes, how frequently? \_\_\_\_\_
- h. Have cleaning products been used recently?  yes  no  
 If yes, when & type? \_\_\_\_\_
- i. Have cosmetic products been used recently?  yes  no  
 If yes, when & type? *6 Months*
- j. Has painting/staining been done in the last 6 months?  yes  no  
 If yes, where & when? *Whole Bldg*
- k. Is there new carpet, drapes, or other textiles?  yes  no  
 If yes, where & when? \_\_\_\_\_
- l. Have air fresheners been used recently?  yes  no  
 If yes, when & type? \_\_\_\_\_
- m. Is there a kitchen exhaust fan?  yes  no  
 If yes, where vented? *Yes*
- n. Is there a bathroom exhaust fan?  yes  no  
 If yes, where vented? *Yes*

### 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY (continued)

- o. Is there a clothes dryer?  yes  no  
 If yes, is it vented outside?  yes  no

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

p. Has there been a pesticide application?  yes  no  
 If yes, when & type? \_\_\_\_\_

q. Are there odors in the building?  yes  no  
 If yes, please describe? Paints \_\_\_\_\_

r. Do any of the building occupants use solvents at work?  yes  no  
 (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)  
 If yes, what types of solvents are used? \_\_\_\_\_  
 If yes, are their clothes washed at work?  yes  no

s. Do any of the building occupants regularly use or work at a dry-cleaning service?  
 (check appropriate response)  
 yes, use dry-cleaning regularly (weekly)  no  
 yes, use dry-cleaning infrequently (monthly or less)  unknown  
 yes, work at a dry-cleaning service

t. Is there a radon mitigation system for the building/structure?  yes  no  
 If yes, date of installation? \_\_\_\_\_  
 Is the system active or passive? \_\_\_\_\_

### 9. WATER AND SEWAGE

Water Supply:  Public Water  Drilled Well  Driven Well  Dug Well  
 Other: \_\_\_\_\_

Sewage Disposal:  Public Sewer  Septic Tank  Leach Field  Dry Well  
 Other: \_\_\_\_\_

### 10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: \_\_\_\_\_  
 b. Residents choose to:  remain in home  relocate to friends/family  relocate to hotel/motel  
 c. Responsibility for costs associated with reimbursement explained?  yes  no  
 d. Relocation package provided and explained to residents?  yes  no

### 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

Location	Product Description	Size (units)	Condition <sup>1</sup>	Chemical Ingredients	Field Instrument Reading (units)	Photo (Y/N)
UNIT 1,	Cleaners		U		0	Y
UNIT 1,3,4	Paints		U		0	Y
Unit 1,4	Membrane Cleaner		U		0	Y
UNIT 3	Sweeping compound		U		0	Y
3	Penetrator cleaners		U		0	Y
3	Stainless Steel Cleaner		U		0	Y
3	Cleaning Wipes		U		0	Y
3	Bee brand Floor Wax		U		0	Y
4	gas cans		U		0	Y
4	Joint Compound		U		0	Y
4	Cement		U		0	Y
4	Wax		U		0	Y
1 1	9000 ORK		U		0	Y
1	Body Filler		U		0	Y
1	Praxair		U		0	Y
1	Drywell		U		0	Y
1	Styrene Paint		U		0	Y
1	PVC Cement		U		0	Y
1	PRIMER		U		0	Y
1	roof adhesive		U		0	Y

**Notes:**

1. Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**.
2. Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

# Attachment 2

## Photolog



## SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:

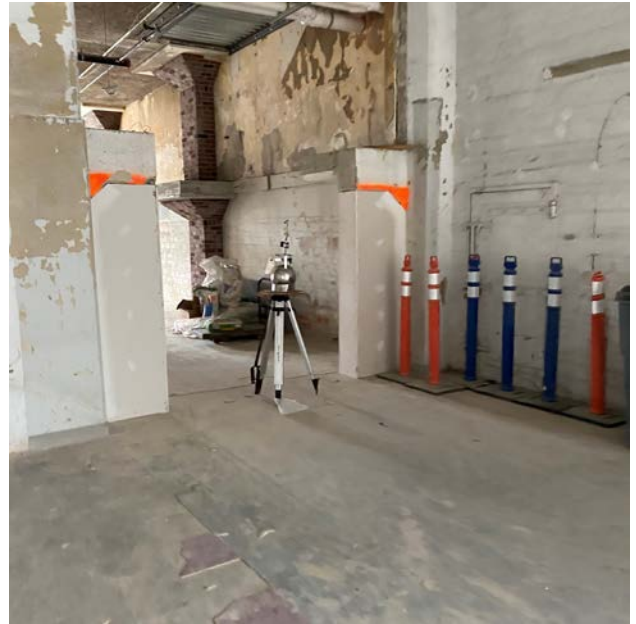


Photo 1: View of SSV-20-2 and Ambient 20-2.

Photo 2: View of SSV-20-1, Blind duplicate, and Ambient 20-1.

Photo 3: View of Ambient 20-4.

Photo 4: View of Ambient 20-3.

**Main and East Balcom Street Site**

Photo Date: March 17, 2020



## SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 5: View of outdoor 20-1.

Photo 6: View of chemicals noted during product inventory.

Photo 7: View of chemicals noted during product inventory.

Photo 8: View of chemicals noted during product inventory.

**Main and East Balcom Street Site**

Photo Date: March 17, 2020



# SITE PHOTOGRAPHS

Photo 9:



Photo 10:

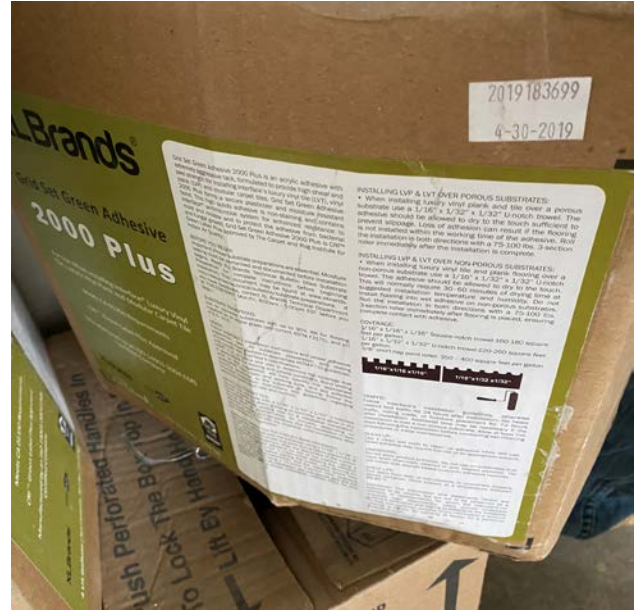


Photo 11:



Photo 12:



Photo 9: View of chemicals noted during product inventory.

Photo 10: View of chemicals noted during product inventory.

Photo 11: View of chemicals noted during product inventory.

Photo 12: View of chemicals noted during product inventory.

Main and East Balcom Street Site

Photo Date: March 17, 2020



## SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



Photo 13: View of chemicals noted during product inventory.

Photo 14: View of chemicals noted during product inventory.

Photo 15: View of chemicals noted during product inventory.

Photo 16: View of chemicals noted during product inventory.

**Main and East Balcom Street Site**

Photo Date: March 17, 2020



# Attachment 3

## Laboratory Data Package



## ANALYTICAL REPORT

Lab Number:	L2012213
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	MAIN + E. BALCOM BCP
Project Number:	B0239-016-001
Report Date:	03/25/20

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

<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>
L2012213-01	SSV20-1	SOIL_VAPOR	BUFFALO, NY	03/18/20 07:52	03/18/20
L2012213-02	SSV20-2	SOIL_VAPOR	BUFFALO, NY	03/18/20 07:30	03/18/20
L2012213-03	SSV-20-BD	SOIL_VAPOR	BUFFALO, NY	03/18/20 07:54	03/18/20
L2012213-04	AMBIENT20-1	AIR	BUFFALO, NY	03/18/20 07:50	03/18/20
L2012213-05	AMBIENT20-2	AIR	BUFFALO, NY	03/18/20 07:28	03/18/20
L2012213-06	AMBIENT20-3	AIR	BUFFALO, NY	03/18/20 07:21	03/18/20
L2012213-07	AMBIENT20-4	AIR	BUFFALO, NY	03/18/20 07:25	03/18/20
L2012213-08	OUTDOOR20-1	AIR	BUFFALO, NY	03/18/20 07:19	03/18/20

**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### 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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**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on March 10, 2020. The canister certification results are provided as an addendum.

L2012213-04 : The canister vacuum measured on receipt at the laboratory was > 15 in. Hg and was pressurized with Nitrogen prior to analysis. The reporting limits have been elevated accordingly.

The WG1354211-3 LCS recoveries for 2-hexanone (136%), 1,2,4-trichlorobenzene (131%) and hexachlorobutadiene (146%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

#### Sample Receipt

The canister ID number for the sample designated SSV-20-BD (L2012213-03) is listed on the CoC as 617 but should be 619. Although the CoC indicates the cansiter size to be 5 liter for most of the samples the canister size is actually 6 liter.

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:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/25/20

**AIR**

**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-01  
 Client ID: SSV20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:52  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/24/20 21:02  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.443	0.200	--	2.19	0.989	--		1
Chloromethane	0.732	0.200	--	1.51	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.918	0.200	--	2.03	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	0.357	0.200	--	0.942	0.528	--		1
Ethanol	7.69	5.00	--	14.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.9	1.00	--	35.4	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	3.41	0.200	--	10.6	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.82	0.500	--	11.3	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-01  
 Client ID: SSV20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:52  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	63.1	0.200	--	222	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	36.0	0.200	--	115	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	87.4	0.200	--	301	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	77.8	0.200	--	319	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	9.40	0.200	--	35.4	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	7.94	0.200	--	34.5	0.869	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-01  
 Client ID: SSV20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:52  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	9.41	0.400	--	40.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.677	0.200	--	2.94	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	121		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-02  
 Client ID: SSV20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:30  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/24/20 21:42  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.415	0.200	--	2.05	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.82	5.00	--	12.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.60	1.00	--	13.3	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.13	0.200	--	3.52	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.34	0.500	--	3.95	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-02  
 Client ID: SSV20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:30  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	14.7	0.200	--	51.8	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	4.67	0.200	--	14.9	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	11.0	0.200	--	37.9	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	8.19	0.200	--	33.6	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	11.0	0.200	--	41.5	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.999	0.200	--	4.34	0.869	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-02  
 Client ID: SSV20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:30  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	2.52	0.400	--	10.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.01	0.200	--	4.39	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	109		60-140





**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-03  
 Client ID: SSV-20-BD  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:54  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/24/20 22:24  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.385	0.200	--	1.90	0.989	--		1
Chloromethane	0.774	0.200	--	1.60	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.990	0.200	--	2.19	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	0.354	0.200	--	0.934	0.528	--		1
Ethanol	12.0	5.00	--	22.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.9	1.00	--	40.1	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.621	0.500	--	1.53	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	3.92	0.200	--	12.2	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.33	0.500	--	12.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-03  
 Client ID: SSV-20-BD  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:54  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	67.8	0.200	--	239	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	38.4	0.200	--	123	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	92.9	0.200	--	320	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	81.7	0.200	--	335	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	9.72	0.200	--	36.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	8.46	0.200	--	36.7	0.869	--		1



**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**SAMPLE RESULTS**

Lab ID: L2012213-03

Date Collected: 03/18/20 07:54

Client ID: SSV-20-BD

Date Received: 03/18/20

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
p/m-Xylene	11.0	0.400	--	47.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.828	0.200	--	3.60	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.228	0.200	--	1.12	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	124		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-04 D  
 Client ID: AMBIENT20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:50  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/23/20 18:09  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.553	0.275	--	2.73	1.36	--		1.375
Chloromethane	0.606	0.275	--	1.25	0.568	--		1.375
Freon-114	ND	0.275	--	ND	1.92	--		1.375
1,3-Butadiene	ND	0.275	--	ND	0.608	--		1.375
Bromomethane	ND	0.275	--	ND	1.07	--		1.375
Chloroethane	ND	0.275	--	ND	0.726	--		1.375
Ethanol	11.4	6.88	--	21.5	13.0	--		1.375
Vinyl bromide	ND	0.275	--	ND	1.20	--		1.375
Acetone	16.5	1.38	--	39.2	3.28	--		1.375
Trichlorofluoromethane	0.290	0.275	--	1.63	1.55	--		1.375
Isopropanol	1.56	0.688	--	3.83	1.69	--		1.375
Tertiary butyl Alcohol	ND	0.688	--	ND	2.09	--		1.375
Methylene chloride	ND	0.688	--	ND	2.39	--		1.375
3-Chloropropene	ND	0.275	--	ND	0.861	--		1.375
Carbon disulfide	ND	0.275	--	ND	0.856	--		1.375
Freon-113	ND	0.275	--	ND	2.11	--		1.375
trans-1,2-Dichloroethene	ND	0.275	--	ND	1.09	--		1.375
1,1-Dichloroethane	ND	0.275	--	ND	1.11	--		1.375
Methyl tert butyl ether	ND	0.275	--	ND	0.991	--		1.375
2-Butanone	0.766	0.688	--	2.26	2.03	--		1.375
Ethyl Acetate	ND	0.688	--	ND	2.48	--		1.375
Chloroform	ND	0.275	--	ND	1.34	--		1.375
Tetrahydrofuran	1.29	0.688	--	3.80	2.03	--		1.375



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-04 D  
 Client ID: AMBIENT20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:50  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2-Dichloroethane	ND	0.275	--	ND	1.11	--		1.375
n-Hexane	0.396	0.275	--	1.40	0.969	--		1.375
Benzene	ND	0.275	--	ND	0.879	--		1.375
Cyclohexane	ND	0.275	--	ND	0.947	--		1.375
1,2-Dichloropropane	ND	0.275	--	ND	1.27	--		1.375
Bromodichloromethane	ND	0.275	--	ND	1.84	--		1.375
1,4-Dioxane	ND	0.275	--	ND	0.991	--		1.375
2,2,4-Trimethylpentane	ND	0.275	--	ND	1.28	--		1.375
Heptane	ND	0.275	--	ND	1.13	--		1.375
cis-1,3-Dichloropropene	ND	0.275	--	ND	1.25	--		1.375
4-Methyl-2-pentanone	ND	0.688	--	ND	2.82	--		1.375
trans-1,3-Dichloropropene	ND	0.275	--	ND	1.25	--		1.375
1,1,2-Trichloroethane	ND	0.275	--	ND	1.50	--		1.375
Toluene	ND	0.275	--	ND	1.04	--		1.375
2-Hexanone	ND	0.275	--	ND	1.13	--		1.375
Dibromochloromethane	ND	0.275	--	ND	2.34	--		1.375
1,2-Dibromoethane	ND	0.275	--	ND	2.11	--		1.375
Chlorobenzene	ND	0.275	--	ND	1.27	--		1.375
Ethylbenzene	0.367	0.275	--	1.59	1.19	--		1.375
p/m-Xylene	1.65	0.550	--	7.17	2.39	--		1.375
Bromoform	ND	0.275	--	ND	2.84	--		1.375
Styrene	ND	0.275	--	ND	1.17	--		1.375
1,1,2,2-Tetrachloroethane	ND	0.275	--	ND	1.89	--		1.375
o-Xylene	0.506	0.275	--	2.20	1.19	--		1.375
4-Ethyltoluene	ND	0.275	--	ND	1.35	--		1.375
1,3,5-Trimethylbenzene	ND	0.275	--	ND	1.35	--		1.375



**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**SAMPLE RESULTS**

Lab ID: L2012213-04 D

Date Collected: 03/18/20 07:50

Client ID: AMBIENT20-1

Date Received: 03/18/20

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2,4-Trimethylbenzene	ND	0.275	--	ND	1.35	--		1.375
Benzyl chloride	ND	0.275	--	ND	1.42	--		1.375
1,3-Dichlorobenzene	ND	0.275	--	ND	1.65	--		1.375
1,4-Dichlorobenzene	ND	0.275	--	ND	1.65	--		1.375
1,2-Dichlorobenzene	ND	0.275	--	ND	1.65	--		1.375
1,2,4-Trichlorobenzene	ND	0.275	--	ND	2.04	--		1.375
Hexachlorobutadiene	ND	0.275	--	ND	2.93	--		1.375

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	87		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-04 D  
 Client ID: AMBIENT20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:50  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/23/20 18:09  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl chloride	ND	0.028	--	ND	0.070	--		1.375
1,1-Dichloroethene	ND	0.028	--	ND	0.109	--		1.375
cis-1,2-Dichloroethene	ND	0.028	--	ND	0.109	--		1.375
1,1,1-Trichloroethane	ND	0.028	--	ND	0.150	--		1.375
Carbon tetrachloride	0.073	0.028	--	0.459	0.173	--		1.375
Trichloroethene	0.034	0.028	--	0.185	0.148	--		1.375
Tetrachloroethene	ND	0.028	--	ND	0.186	--		1.375

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	88		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-05  
 Client ID: AMBIENT20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:28  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/23/20 18:47  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.527	0.200	--	2.61	0.989	--		1
Chloromethane	0.611	0.200	--	1.26	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.72	5.00	--	14.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.59	1.00	--	20.4	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	1.44	0.500	--	3.54	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.671	0.500	--	1.98	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.794	0.500	--	2.34	1.47	--		1





**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-05  
 Client ID: AMBIENT20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:28  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.386	0.200	--	1.36	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.223	0.200	--	0.840	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.237	0.200	--	1.03	0.869	--		1
p/m-Xylene	1.06	0.400	--	4.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.330	0.200	--	1.43	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**SAMPLE RESULTS**

Lab ID: L2012213-05

Date Collected: 03/18/20 07:28

Client ID: AMBIENT20-2

Date Received: 03/18/20

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-05  
 Client ID: AMBIENT20-2  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:28  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/23/20 18:47  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Trichloroethene	0.026	0.020	--	0.140	0.107	--		1
Tetrachloroethene	0.021	0.020	--	0.142	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-06  
 Client ID: AMBIENT20-3  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:21  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/23/20 20:04  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.497	0.200	--	2.46	0.989	--		1
Chloromethane	0.587	0.200	--	1.21	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.72	5.00	--	12.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.16	1.00	--	9.88	2.38	--		1
Trichlorofluoromethane	0.251	0.200	--	1.41	1.12	--		1
Isopropanol	1.25	0.500	--	3.07	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-06  
 Client ID: AMBIENT20-3  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:21  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.228	0.200	--	0.804	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**SAMPLE RESULTS**

Lab ID: L2012213-06  
 Client ID: AMBIENT20-3  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:21  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-06  
 Client ID: AMBIENT20-3  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:21  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/23/20 20:04  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-07  
 Client ID: AMBIENT20-4  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:25  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/23/20 20:48  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.496	0.200	--	2.45	0.989	--		1
Chloromethane	0.662	0.200	--	1.37	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	10.7	5.00	--	20.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.58	1.00	--	18.0	2.38	--		1
Trichlorofluoromethane	0.252	0.200	--	1.42	1.12	--		1
Isopropanol	1.47	0.500	--	3.61	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.946	0.500	--	2.79	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.28	0.500	--	3.78	1.47	--		1





**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-07  
 Client ID: AMBIENT20-4  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:25  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.250	0.200	--	0.881	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.712	0.200	--	2.68	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.27	0.200	--	9.86	0.869	--		1
p/m-Xylene	10.5	0.400	--	45.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.02	0.200	--	13.1	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**SAMPLE RESULTS**

Lab ID: L2012213-07  
 Client ID: AMBIENT20-4  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:25  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2,4-Trimethylbenzene	0.492	0.200	--	2.42	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-07  
 Client ID: AMBIENT20-4  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:25  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/23/20 20:48  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.057	0.020	--	0.387	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	89		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-08  
 Client ID: OUTDOOR20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:19  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/23/20 17:30  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--		1
Chloromethane	0.622	0.200	--	1.28	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.64	1.00	--	3.90	2.38	--		1
Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-08  
 Client ID: OUTDOOR20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:19  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**SAMPLE RESULTS**

Lab ID: L2012213-08  
 Client ID: OUTDOOR20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:19  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air - Mansfield Lab</b>								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

### SAMPLE RESULTS

Lab ID: L2012213-08  
 Client ID: OUTDOOR20-1  
 Sample Location: BUFFALO, NY

Date Collected: 03/18/20 07:19  
 Date Received: 03/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/23/20 17:30  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	90		60-140



Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/23/20 14:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 04-08 Batch: WG1354211-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1





Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/23/20 14:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 04-08 Batch: WG1354211-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/23/20 14:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 04-08 Batch: WG1354211-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/23/20 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 04-08 Batch: WG1354212-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/24/20 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1354657-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/24/20 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1354657-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/24/20 15:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1354657-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Lab Number:** L2012213

**Project Number:** B0239-016-001

**Report Date:** 03/25/20

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 Batch: WG1354211-3								
Dichlorodifluoromethane	101		-		70-130	-		
Chloromethane	120		-		70-130	-		
Freon-114	116		-		70-130	-		
Vinyl chloride	113		-		70-130	-		
1,3-Butadiene	107		-		70-130	-		
Bromomethane	118		-		70-130	-		
Chloroethane	118		-		70-130	-		
Ethanol	103		-		40-160	-		
Vinyl bromide	118		-		70-130	-		
Acetone	109		-		40-160	-		
Trichlorofluoromethane	116		-		70-130	-		
Isopropanol	122		-		40-160	-		
1,1-Dichloroethene	105		-		70-130	-		
Tertiary butyl Alcohol	92		-		70-130	-		
Methylene chloride	106		-		70-130	-		
3-Chloropropene	124		-		70-130	-		
Carbon disulfide	95		-		70-130	-		
Freon-113	110		-		70-130	-		
trans-1,2-Dichloroethene	106		-		70-130	-		
1,1-Dichloroethane	114		-		70-130	-		
Methyl tert butyl ether	105		-		70-130	-		
2-Butanone	118		-		70-130	-		
cis-1,2-Dichloroethene	112		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: MAIN + E. BALCOM BCP

Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 Batch: WG1354211-3								
Ethyl Acetate	117		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	115		-		70-130	-		
1,2-Dichloroethane	109		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	112		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	107		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	121		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	111		-		70-130	-		
Trichloroethene	119		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Heptane	121		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	125		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	114		-		70-130	-		
Toluene	118		-		70-130	-		
2-Hexanone	136	Q	-		70-130	-		
Dibromochloromethane	129		-		70-130	-		
1,2-Dibromoethane	111		-		70-130	-		



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Lab Number:** L2012213

**Project Number:** B0239-016-001

**Report Date:** 03/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 Batch: WG1354211-3								
Tetrachloroethene	115		-		70-130	-		
Chlorobenzene	112		-		70-130	-		
Ethylbenzene	119		-		70-130	-		
p/m-Xylene	120		-		70-130	-		
Bromoform	119		-		70-130	-		
Styrene	112		-		70-130	-		
1,1,2,2-Tetrachloroethane	120		-		70-130	-		
o-Xylene	125		-		70-130	-		
4-Ethyltoluene	112		-		70-130	-		
1,3,5-Trimethylbenzene	117		-		70-130	-		
1,2,4-Trimethylbenzene	126		-		70-130	-		
Benzyl chloride	121		-		70-130	-		
1,3-Dichlorobenzene	116		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
1,2-Dichlorobenzene	117		-		70-130	-		
1,2,4-Trichlorobenzene	131	Q	-		70-130	-		
Hexachlorobutadiene	146	Q	-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Project Number:** B0239-016-001

**Lab Number:** L2012213

**Report Date:** 03/25/20

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-08 Batch: WG1354212-3								
Vinyl chloride	107		-		70-130	-		25
1,1-Dichloroethene	104		-		70-130	-		25
cis-1,2-Dichloroethene	106		-		70-130	-		25
1,1,1-Trichloroethane	101		-		70-130	-		25
Carbon tetrachloride	93		-		70-130	-		25
Trichloroethene	110		-		70-130	-		25
Tetrachloroethene	111		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Lab Number:** L2012213

**Project Number:** B0239-016-001

**Report Date:** 03/25/20

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1354657-3								
Dichlorodifluoromethane	82		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	99		-		70-130	-		
Vinyl chloride	102		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Bromomethane	94		-		70-130	-		
Chloroethane	105		-		70-130	-		
Ethanol	72		-		40-160	-		
Vinyl bromide	91		-		70-130	-		
Acetone	86		-		40-160	-		
Trichlorofluoromethane	96		-		70-130	-		
Isopropanol	88		-		40-160	-		
1,1-Dichloroethene	105		-		70-130	-		
Tertiary butyl Alcohol	94		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	125		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
Freon-113	103		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	107		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	106		-		70-130	-		
cis-1,2-Dichloroethene	109		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Lab Number:** L2012213

**Project Number:** B0239-016-001

**Report Date:** 03/25/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1354657-3								
Ethyl Acetate	120		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	108		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	104		-		70-130	-		
1,1,1-Trichloroethane	84		-		70-130	-		
Benzene	100		-		70-130	-		
Carbon tetrachloride	92		-		70-130	-		
Cyclohexane	106		-		70-130	-		
1,2-Dichloropropane	108		-		70-130	-		
Bromodichloromethane	96		-		70-130	-		
1,4-Dioxane	107		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	107		-		70-130	-		
Heptane	103		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	106		-		70-130	-		
2-Hexanone	115		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	107		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MAIN + E. BALCOM BCP

**Lab Number:** L2012213

**Project Number:** B0239-016-001

**Report Date:** 03/25/20

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1354657-3								
Tetrachloroethene	112		-		70-130	-		
Chlorobenzene	114		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	109		-		70-130	-		
Styrene	106		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	105		-		70-130	-		
4-Ethyltoluene	105		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Benzyl chloride	108		-		70-130	-		
1,3-Dichlorobenzene	111		-		70-130	-		
1,4-Dichlorobenzene	113		-		70-130	-		
1,2-Dichlorobenzene	113		-		70-130	-		
1,2,4-Trichlorobenzene	127		-		70-130	-		
Hexachlorobutadiene	114		-		70-130	-		

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: MAIN + E. BALCOM BCP

Project Number: B0239-016-001

Lab Number: L2012213

Report Date: 03/25/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 QC Batch ID: WG1354211-5 QC Sample: L2012213-05 Client ID: AMBIENT20-2						
Dichlorodifluoromethane	0.527	0.495	ppbV	6		25
Chloromethane	0.611	0.570	ppbV	7		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	7.72	7.58	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	8.59	8.41	ppbV	2		25
Trichlorofluoromethane	0.258	0.235	ppbV	9		25
Isopropanol	1.44	1.39	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.671	0.646	ppbV	4		25
Ethyl Acetate	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: MAIN + E. BALCOM BCP

Project Number: B0239-016-001

Lab Number: L2012213

Report Date: 03/25/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 QC Batch ID: WG1354211-5 QC Sample: L2012213-05 Client ID: AMBIENT20-2						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	0.794	0.775	ppbV	2		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.386	0.379	ppbV	2		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.223	0.221	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.237	0.239	ppbV	1		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: MAIN + E. BALCOM BCP

Project Number: B0239-016-001

Lab Number: L2012213

Report Date: 03/25/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 04-08 QC Batch ID: WG1354211-5 QC Sample: L2012213-05 Client ID: AMBIENT20-2						
p/m-Xylene	1.06	1.04	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.330	0.323	ppbV	2		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25



## Lab Duplicate Analysis

Batch Quality Control

Project Name: MAIN + E. BALCOM BCP

Project Number: B0239-016-001

Lab Number: L2012213

Report Date: 03/25/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-08 QC Batch ID: WG1354212-5 QC Sample: L2012213-05 Client ID: AMBIENT20-2						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.063	0.065	ppbV	3		25
Trichloroethene	0.026	0.033	ppbV	24		25
Tetrachloroethene	0.021	0.021	ppbV	0		25

Project Name: MAIN + E. BALCOM BCP

Serial\_No:03252015:27  
Lab Number: L2012213

Project Number: B0239-016-001

Report Date: 03/25/20

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2012213-01	SSV20-1	0873	Flow 5	03/10/20	316215		-	-	-	Pass	3.0	3.3	10
L2012213-01	SSV20-1	3311	6.0L Can	03/10/20	316215	L2009137-06	Pass	-29.3	-14.7	-	-	-	-
L2012213-02	SSV20-2	0029	Flow 5	03/10/20	316215		-	-	-	Pass	3.0	4.2	33
L2012213-02	SSV20-2	2713	6.0L Can	03/10/20	316215	L2009137-08	Pass	-29.6	-8.6	-	-	-	-
L2012213-03	SSV-20-BD	0044	Flow 5	03/10/20	316215		-	-	-	Pass	3.0	3.2	6
L2012213-03	SSV-20-BD	619	6.0L Can	03/10/20	316215	L2009137-08	Pass	-29.6	-13.2	-	-	-	-
L2012213-04	AMBIENT20-1	01301	Flow 5	03/10/20	316215		-	-	-	Pass	3.0	3.2	6
L2012213-04	AMBIENT20-1	1540	6.0L Can	03/10/20	316215	L2008050-04	Pass	-29.3	-15.5	-	-	-	-
L2012213-05	AMBIENT20-2	01605	Flow 5	03/10/20	316215		-	-	-	Pass	3.0	3.2	6
L2012213-05	AMBIENT20-2	2382	2.7L Can	03/10/20	316236	L2009139-06	Pass	-28.2	0.0	-	-	-	-
L2012213-06	AMBIENT20-3	01576	Flow 4	03/10/20	316236		-	-	-	Pass	9.0	9.2	2
L2012213-06	AMBIENT20-3	1884	6.0L Can	03/10/20	316215	L2008050-05	Pass	-29.3	0.0	-	-	-	-
L2012213-07	AMBIENT20-4	01411	Flow 5	03/13/20	316781		-	-	-	Pass	3.0	3.5	15
L2012213-07	AMBIENT20-4	3272	6.0L Can	03/10/20	316215	L2008050-04	Pass	-29.3	-14.3	-	-	-	-
L2012213-08	OUTDOOR20-1	0003	Flow 2	03/10/20	316215		-	-	-	Pass	3.0	3.7	21

**Project Name:** MAIN + E. BALCOM BCP

**Project Number:** B0239-016-001

Serial\_No:03252015:27  
**Lab Number:** L2012213

**Report Date:** 03/25/20

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2012213-08	OUTDOOR20-1	3294	6.0L Can	03/10/20	316215	L2008050-05	Pass	-29.3	-12.7	-	-	-	-

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/28/20 18:41  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	87		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 02/28/20 18:41  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-04  
 Client ID: CAN 3299 SHELF 42  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 02/28/20 19:19  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	87		60-140





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 02/28/20 19:19  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2008050  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2008050-05  
 Client ID: CAN 2050 SHELF 47  
 Sample Location:

Date Collected: 02/27/20 16:00  
 Date Received: 02/28/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	87		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/04/20 20:01  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/04/20 20:01  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-06  
 Client ID: CAN 1830 SHELF 56  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/04/20 21:17  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	84		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/04/20 21:17  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009137  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009137-08  
 Client ID: CAN 3393 SHELF 58  
 Sample Location:

Date Collected: 03/04/20 09:00  
 Date Received: 03/04/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	84		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 03/07/20 20:10  
 Analyst: GP

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		60-140
Bromochloromethane	115		60-140
chlorobenzene-d5	121		60-140





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 03/07/20 20:10  
 Analyst: GP

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2009139  
**Report Date:** 03/25/20

### Air Canister Certification Results

Lab ID: L2009139-06  
 Client ID: CAN 1720 SHELF 8  
 Sample Location:

Date Collected: 03/06/20 09:00  
 Date Received: 03/06/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	110		60-140
bromochloromethane	113		60-140
chlorobenzene-d5	120		60-140

**Project Name:** MAIN + E. BALCOM BCP**Lab Number:** L2012213**Project Number:** B0239-016-001**Report Date:** 03/25/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
NA	Absent

**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>
L2012213-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2012213-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2012213-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2012213-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2012213-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2012213-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2012213-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2012213-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

## 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:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

- 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.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**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

Report Format: Data Usability Report



**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

**Data Qualifiers**

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.

**Project Name:** MAIN + E. BALCOM BCP  
**Project Number:** B0239-016-001

**Lab Number:** L2012213  
**Report Date:** 03/25/20

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

## 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

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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.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

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

### Westborough Facility:

#### Drinking Water

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

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

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



# AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

### Project Information

Project Name: *Maint E. Balcom BCP*  
 Project Location: *Buffalo NY*  
 Project #: *80239-016-001*  
 Project Manager:  
 ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab: *3/19/20*

### Report Information - Data Deliverables

FAX  
 ADEx  
 Criteria Checker: \_\_\_\_\_  
(Default based on Regulatory Criteria Indicated)  
 Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
 Report to: (if different than Project Manager)

ALPHA Job #: *L2012213*

### Billing Information

Same as Client info PO #:

### Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

### Client Information

Client: *Turnkey Environmental*  
 Address: *2558 Hamburg Turnpike*  
*Buffalo NY 14218*  
 Phone: *716-856-0599*  
 Fax:  
 Email: *Nmunley@bm-nc.com*

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

### All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH <small>Subtract Non-petroleum HCs</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<i>12213-01</i>	<i>SSV20-1</i>	<i>3/18/20</i>	<i>1430</i>	<i>752</i>	<i>-27.99</i>	<i>-14.51</i>	<i>AW</i>	<i>NASC085L</i>	<i>3311</i>	<i>0873</i>	<i>X</i>	<i>X</i>					
<i>-02</i>	<i>SSV20-2</i>		<i>1435</i>	<i>730</i>	<i>-27.77</i>	<i>-8.60</i>			<i>5L</i>	<i>2713</i>	<i>0029</i>	<i>X</i>	<i>X</i>				<i>BCP site</i>
<i>-03</i>	<i>SSV-20-BD</i>		<i>1440</i>	<i>754</i>	<i>-29.43</i>	<i>-12.83</i>			<i>5L</i>	<i>617</i>	<i>0044</i>	<i>X</i>	<i>X</i>				<i>please use</i>
<i>-04</i>	<i>Ambient 20-1</i>		<i>1430</i>	<i>750</i>	<i>-29.56</i>	<i>-15.53</i>			<i>5L</i>	<i>1540</i>	<i>01301</i>	<i>X</i>	<i>X</i>				<i>lowest detection</i>
<i>-05</i>	<i>Ambient 20-2</i>		<i>1435</i>	<i>728</i>	<i>-28.24</i>	<i>0.31</i>			<i>2.7L</i>	<i>232</i>	<i>01605</i>	<i>X</i>	<i>X</i>				
<i>-06</i>	<i>Ambient 20-3</i>		<i>1445</i>	<i>721</i>	<i>-29.73</i>	<i>0.43</i>			<i>5L</i>	<i>1874</i>	<i>01576</i>	<i>X</i>	<i>X</i>				
<i>-07</i>	<i>Ambient 20-4</i>		<i>1440</i>	<i>725</i>	<i>-29.71</i>	<i>-14.33</i>			<i>5L</i>	<i>3272</i>	<i>01411</i>	<i>X</i>	<i>X</i>				
<i>-08</i>	<i>Outdoor 20-1</i>		<i>1445</i>	<i>719</i>	<i>-30.17</i>	<i>-13.75</i>			<i>5L</i>	<i>3294</i>	<i>0003</i>	<i>X</i>	<i>X</i>				

### \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Container Type

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 Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

*Carl Bell*  
*Jim Ayl*  
*T. Hush*

*3/18/20 8:15*  
*3/18/20 14:00*  
*3/19/20 04:00*

*Jim Ayl AAC*  
*[Signature]*  
*[Signature]*

*3/18/20 13:30*  
*3/19/20 00:35*  
*3/19/20 04:00*