

March 23, 2021

Ms. Megan Kuczka  
Environmental Program Specialist  
New York State Department of Environmental Conservation  
Department of Environmental Remediation, Region 9  
270 Michigan Avenue  
Buffalo NY 14203-2915

Re: Post-Remedial Vapor Assessment Report – March 2021  
73-79 West Huron Street Site (C915282), Buffalo, New York

Dear Ms. Kuczka:

Benchmark Environmental Engineering & Science, PLLC (Benchmark) has prepared this letter report to summarize the results of the Vapor Assessment sampling conducted on February 3, 2021 to check the efficacy of the active sub-slab depressurization (ASD) system installed in the existing building at the 73-79 West Huron Street Site, Buffalo, New York (Site; Figure 1).

#### VAPOR ASSESSMENT TESTING

In accordance with the May 2020 Periodic Review Report (revised June 2020), approved by the New York State Department of Environmental Conservation (NYSDEC) on June 30, 2020, indoor air and outdoor air samples were collected in February of 2021 to satisfy Site Management Plan (SMP) requirements for evaluating efficacy of the ASD system installed in the existing building.

Benchmark performed sampling on February 3, 2021. At that time, the basement of the building was in partial use by teaching staff; all student classes were on upper floors. The existing ASD and heating systems were active, and doors and windows were closed as typical for winter weather conditions (high temperatures were at or below 33 degrees F on the day of sampling). It is important to note that at the time sampling was performed, multiple containers of cleaning supplies and disinfectant related to COVID-19 mitigation were present within the basement.

Benchmark collected indoor air and outdoor air samples from the following locations (see Figure 2):

- **Basement** - Collected two (2) indoor air samples.

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2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218  
phone: (716) 856-0599 | fax: (716) 856-0583

- **Outdoor (outside on roof of newly constructed gymnasium)** – Collected one (1) outdoor air sample.

The air samples were collected using laboratory-provided air collection canisters equipped with pre-set timed regulator to draw vapors into the canisters over an 8-hour period. Following the 8-hour sample collection period, the canisters were delivered under chain of custody command to Alpha Analytical Laboratories, located in Mansfield, Massachusetts for analysis of volatile organic compounds per USEPA TO-15 methodology.

Prior to collection of air samples, a chemical product inventory of the basement was performed. The objective of the product inventory is to identify any potential sources which may influence the air sampling. In general, the chemicals identified were primarily comprised of partially used containers of school cleaning and disinfecting supplies, fire extinguishers, and maintenance products including paints, primers, and adhesives. Select photographs from the monitoring event are presented as Attachment 2.

## SAMPLE RESULTS

Table 1 provides a comparison of the February 3, 2021 sampling event analytical results to New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York - Appendix C2. EPA 2001: Building Assessment and Survey Evaluation (BASE) database, SUMMA Canister Method - 90th Percentile Values for Indoor and Outdoor Air, which are included in Attachment 4 for reference.

As indicated on Table 1, one indoor air sample was detected above its NYSDOH indoor air 90<sup>th</sup> percentile value for ethanol of 210 ug/m<sup>3</sup> at IA-2 (771 ug/m<sup>3</sup>). The indoor air ethanol exceedance is likely related to the abundance of partially used disinfectant containers (i.e. hand sanitizer) located throughout the basement. The outdoor air sample was detected above its NYSDOH outdoor air 90<sup>th</sup> percentile value for ethyl acetate of 1.5 ug/m<sup>3</sup> at OA-1 (5.8 ug/m<sup>3</sup>).

During the vapor assessment performed on February 3, 2021, Benchmark personnel collected magnehelic gauge readings from the two gauges installed on the manifold risers in the basement. Benchmark personnel verified that the ASD system fans were operating properly as indicated by the pressure readings on the magnehelic gauges. Figure 2 illustrates magnehelic gauge locations and pressures readings measured in inches of water.

## CONCLUSIONS

Based upon the results of the sampling as summarized herein, the data does not indicate vapor intrusion concerns and the ASD system is operating effectively.

Please contact us if you have any questions or require additional information.

Sincerely,  
Benchmark Environmental Engineering & Science, PLLC



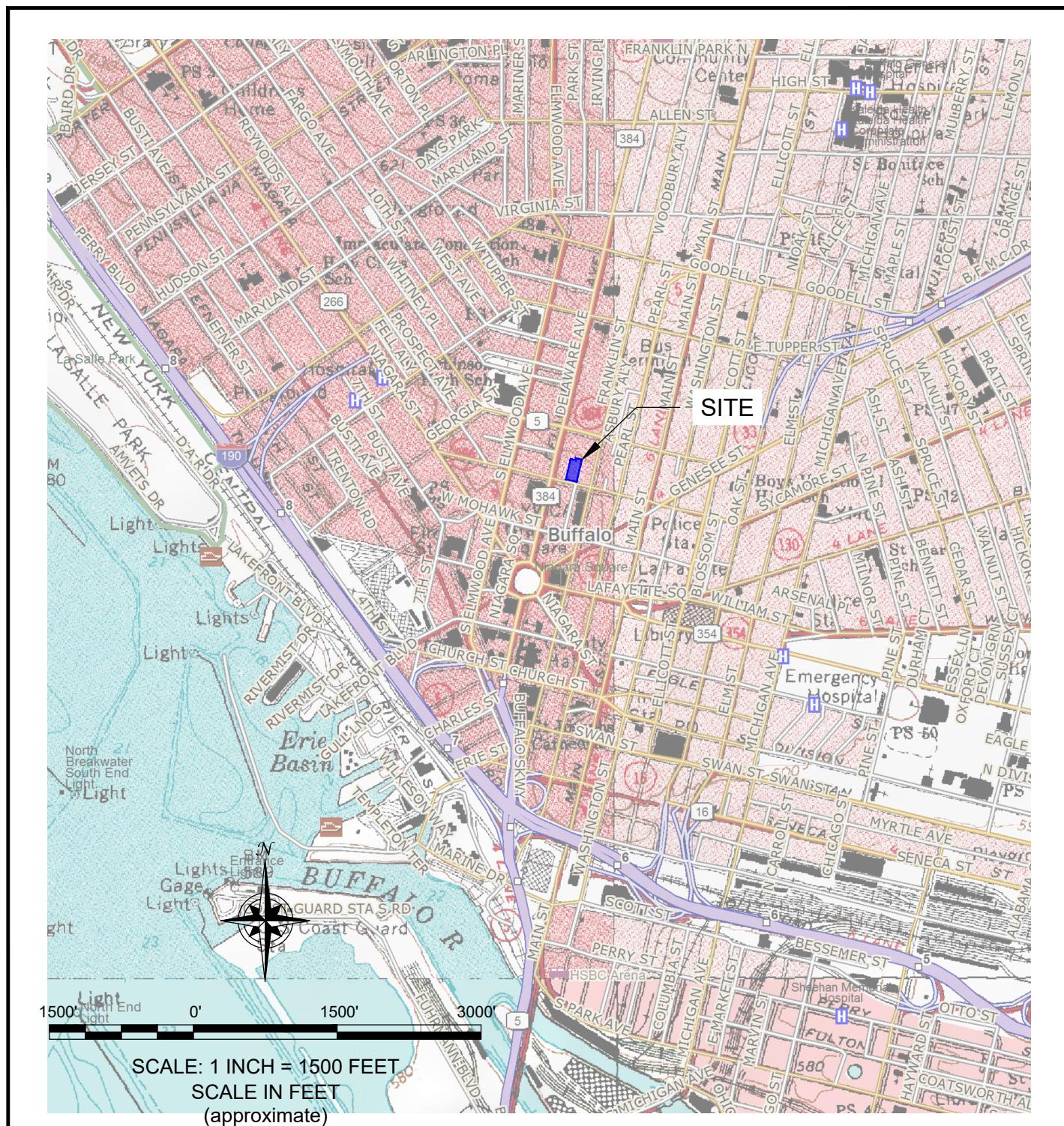
Thomas H. Forbes, P.E.  
Principal Engineer



Caroline Bukowski, EIT  
Engineer

C: James Mahoney (McGuire)  
David Von Derau (McGuire)

## **FIGURES**

**FIGURE 1**

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

PROJECT NO.: 0441-020-001

DATE: MARCH 2021

DRAFTED BY: CCB

## SITE LOCATION & VICINITY MAP VAPOR ASSESSMENT REPORT

73-79 WEST HURON STREET SITE  
BCP SITE NO. C915282  
BUFFALO, NEW YORK

PREPARED FOR  
EMERSON HURON, LLC

**DISCLAIMER:**

PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. 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.

LEGEND:

- BCP / PROPERTY BOUNDARY
- EXISTING BUILDING
- BASEMENT FLOOR PLAN
- APPROXIMATE LOCATION OF NEWLY CONSTRUCTED GYMNASIUM WITH PARKING BELOW
- PARCEL BOUNDARY
- NAME
- ROAD
- INDOOR AIR SAMPLE LOCATION
- OUT DOOR AIR SAMPLE LOCATION
- MAGNEHELIC PRESSURE GAUGE LOCATION  
(PRESSURE READING IN INCHES OF WATER)
- 4-INCH PERFORATED ASD PIPING

NOTE:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC  
COLLECTED NEGATIVE PRESSURE READINGS FROM BOTH  
MAGNEHELIC GAUGES (MAG-1 & MAG-2) ON FEBRUARY 3, 2021.



30' 0' 30' 60'

SCALE: 1 INCH = 30 FEET  
SCALE IN FEET  
(approximate)

**FIGURE 2**

**BENCHMARK**  
ENVIRONMENTAL  
ENGINEERING &  
SCIENCE, PLLC

2558 HAMBURG TURNPIKE  
SUITE 300  
BUFFALO, NY 14218  
(716) 856-0589

JOB NO.: 0441-020-001

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**INDOOR & OUTDOOR AIR SAMPLE LOCATIONS**  
VAPOR ASSESSMENT REPORT  
73-79 WEST HURON STREET SITE  
BCP SITE NO. C915282  
BUFFALO, NEW YORK  
PREPARED FOR  
EMERSON HURON, LLC

# TABLE



TABLE 1

## SUMMARY OF INDOOR AIR AND OUTDOOR AIR SAMPLING ANALYTICAL RESULTS

## VAPOR ASSESSMENT REPORT

73-79 WEST HURON STREET SITE  
BCP SITE NO. C915282  
BUFFALO, NEW YORK

| Parameter <sup>1</sup>                          | 90th Percentile Values<br>for Indoor Air <sup>2</sup> | 90th Percentile Values<br>for Outdoor Air <sup>2</sup> | Sample Location & Sample Date |            |            |
|-------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-------------------------------|------------|------------|
|                                                 |                                                       |                                                        | IA-1                          | IA-2       | OA-1       |
|                                                 |                                                       |                                                        | 2/3/2021                      |            |            |
| <b>Volatile Organic Compounds (VOCs, ug/m3)</b> |                                                       |                                                        |                               |            |            |
| Acetone                                         | <b>98.9</b>                                           | <b>43.7</b>                                            | ND< 2.4                       | 7.25       | 4.25       |
| Benzene                                         | <b>9.4</b>                                            | <b>6.6</b>                                             | ND< 0.64                      | ND< 0.64   | 0.639      |
| Carbon Tetrachloride                            | < 1.3                                                 | <b>0.7</b>                                             | 0.352                         | 0.371      | 0.352      |
| Chloromethane                                   | <b>3.7</b>                                            | <b>3.7</b>                                             | 1.06                          | 1.18       | 1.02       |
| Cyclohexane                                     | --                                                    | --                                                     | ND< 0.69                      | 0.861      | 3.02       |
| Dichlorodifluoromethane                         | <b>16.5</b>                                           | <b>8.1</b>                                             | 1.82                          | 1.85       | 1.8        |
| Ethanol                                         | <b>210</b>                                            | <b>57</b>                                              | 33.2                          | <b>771</b> | 23         |
| Ethyl acetate                                   | <b>5.4</b>                                            | <b>1.5</b>                                             | ND< 1.8                       | ND< 1.8    | <b>5.8</b> |
| Isopropanol                                     | --                                                    | --                                                     | ND< 1.2                       | 2.9        | 1.28       |
| Styrene                                         | <b>1.9</b>                                            | <b>1.3</b>                                             | ND< 0.85                      | 1.37       | ND< 0.85   |
| Tetrachloroethene                               | <b>15.9</b>                                           | <b>6.5</b>                                             | 0.271                         | 0.136      | 0.183      |
| Tetrahydrofuran                                 | --                                                    | --                                                     | ND< 1.5                       | 1.68       | ND< 1.5    |
| Toluene                                         | <b>43</b>                                             | <b>33.7</b>                                            | ND< 0.75                      | 1.39       | 2.02       |

## Notes:

1. Only those parameters detected above the method detection limit, at a minimum of one location, are presented in this table.
2. Values per NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York - Appendix C2. EPA 2001: Building Assessment and Survey Evaluation (BASE) database, SUMMA Canister Method - 90th Percentile Values for Indoor and Outdoor Air

## Definitions:

ND = Parameter not detected above laboratory detection limit.

**Bold** = Values exceeds Indoor Air 90th Percentile Values**Bold** = Values exceeds Outdoor Air 90th Percentile Values

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## **ATTACHMENT 1**

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### **Chemical Inventory**



## AIR CANISTER FIELD RECORD

### PROJECT INFORMATION:

Project: 73-79 W. Huron Street  
Job No: B0441-020-001 (004)  
Location: 73-79 W. Huron Street, Buffalo NY  
Field Staff: CCB  
Client: Emerson Huron, LLC

### SAMPLE I.D.:

IA-1

### WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 22 F  
Ambient Air Temp. - P.M.: 30 F  
Wind Direction: NW  
Wind Speed: 10-15 mph  
Precipitation: None

Size of Canister: 2.7 L  
Canister Serial No.: 147B  
Flow Controller No.: 01719  
Sample Date(s): 2/3/2021  
Shipping Date: 2/3/2021  
Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
Soil Gas Probe Depth: NA

### FIELD SAMPLING INFORMATION:

| READING                           | TIME  | VACUUM (inches Hg) or PRESSURE (psig) | DATE     | INITIALS |
|-----------------------------------|-------|---------------------------------------|----------|----------|
| Lab Vacuum (on tag)               | --    | -29.5 " Hg                            | --       | LAB      |
| Field Vacuum Check <sup>1</sup>   | --    | --                                    | --       | --       |
| Initial Field Vacuum <sup>2</sup> | 7:30  | -30.34 " Hg                           | 2/3/2021 | CCB      |
| Final Field Vacuum <sup>3</sup>   | 14:17 | -9.25 " Hg                            | 2/3/2021 | CCB      |
| Duration of Sample Collection     | 8 HR  |                                       |          |          |

### LABORATORY CANISTER PRESSURIZATION:

|                                     |             |  |
|-------------------------------------|-------------|--|
| Initial Vacuum (inches Hg and psia) | -30.34 " Hg |  |
| Final Pressure (psia)               | -9.25 " Hg  |  |
| Pressurization Gas                  |             |  |

### SUBSLAB SHROUD:

Shroud Helium Concentration: NA  
Calculated tubing volume: x 3 =  
Purged Tubing Volume Concentration:  
Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

| COMPOSITE TIME (hours) | FLOW RATE RANGE (ml/min) |
|------------------------|--------------------------|
| 15 Min.                | 316 - 333                |
| 0.5 Hours              | 158 - 166.7              |
| 1                      | 79.2 - 83.3              |
| 2                      | 39.6 - 41.7              |
| 4                      | 19.8 - 20.8              |
| 6                      | 13.2 - 13.9              |
| 8                      | 9.9 - 10.4               |
| 10                     | 7.92 - 8.3               |
| 12                     | 6.6 - 6.9                |
| 24                     | 3.5 - 4.0                |

### NOTES:

- 1 Vacuum measured using portable vacuum gauge (provided by Lab)
- 2 Vacuum measured by canister gauge upon opening valve
- 3 Vacuum measured by canister gauge prior to closing valve

Signed: CAROLINE BUKOWSKI



## AIR CANISTER FIELD RECORD

### PROJECT INFORMATION:

Project: 73-79 W. Huron Street  
Job No: B0441-020-001 (004)  
Location: 73-79 W. Huron Street, Buffalo NY  
Field Staff: CCB  
Client: Emerson Huron, LLC

### SAMPLE I.D.:

IA-2

### WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 22 F  
Ambient Air Temp. - P.M.: 30 F  
Wind Direction: NW  
Wind Speed: 10-15 mph  
Precipitation: None

Size of Canister: 2.7 L  
Canister Serial No.: 2310  
Flow Controller No.: 0478  
Sample Date(s): 2/3/2021  
Shipping Date: 2/3/2021  
Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
Soil Gas Probe Depth: NA

### FIELD SAMPLING INFORMATION:

| READING                           | TIME  | VACUUM (inches Hg) or PRESSURE (psig) | DATE     | INITIALS |
|-----------------------------------|-------|---------------------------------------|----------|----------|
| Lab Vacuum (on tag)               | --    | -29.3 " Hg                            | --       | LAB      |
| Field Vacuum Check <sup>1</sup>   | --    | --                                    | --       | --       |
| Initial Field Vacuum <sup>2</sup> | 7:20  | -29.81 " Hg                           | 2/3/2021 | CCB      |
| Final Field Vacuum <sup>3</sup>   | 14:10 | -9.91 " Hg                            | 2/3/2021 | CCB      |
| Duration of Sample Collection     | 8 HR  |                                       |          |          |

### LABORATORY CANISTER PRESSURIZATION:

|                                     |             |  |
|-------------------------------------|-------------|--|
| Initial Vacuum (inches Hg and psia) | -29.81 " Hg |  |
| Final Pressure (psia)               | -9.91 " Hg  |  |
| Pressurization Gas                  |             |  |

### SUBSLAB SHROUD:

| Shroud Helium Concentration:                                            | NA    | COMPOSITE TIME (hours) | FLOW RATE RANGE (ml/min) |
|-------------------------------------------------------------------------|-------|------------------------|--------------------------|
| Calculated tubing volume:                                               | x 3 = | 15 Min.                | 316 - 333                |
| Purged Tubing Volume Concentration:                                     |       | 0.5 Hours              | 158 - 166.7              |
| Is the purged volume concentration less than or equal to 10% in shroud? |       | 1                      | 79.2 - 83.3              |
| <input type="checkbox"/> YES, continue sampling                         |       | 2                      | 39.6 - 41.7              |
| <input type="checkbox"/> NO, improve surface seal and retest            |       | 4                      | 19.8 - 20.8              |
|                                                                         |       | 6                      | 13.2 - 13.9              |
|                                                                         |       | 8                      | 9.9 - 10.4               |
|                                                                         |       | 10                     | 7.92 - 8.3               |
|                                                                         |       | 12                     | 6.6 - 6.9                |
|                                                                         |       | 24                     | 3.5 - 4.0                |

### NOTES:

- 1 Vacuum measured using portable vacuum gauge (provided by Lab)
- 2 Vacuum measured by canister gauge upon opening valve
- 3 Vacuum measured by canister gauge prior to closing valve

Signed: CAROLINE BUKOWSKI



## AIR CANISTER FIELD RECORD

### PROJECT INFORMATION:

Project: 73-79 W. Huron Street  
Job No: B0441-020-001 (004)  
Location: 73-79 W. Huron Street, Buffalo NY  
Field Staff: CCB  
Client: Emerson Huron, LLC

### SAMPLE I.D.:

OA-1

### WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 22 F  
Ambient Air Temp. - P.M.: 30 F  
Wind Direction: NW  
Wind Speed: 10-15 mph  
Precipitation: None

Size of Canister: 2.7 L  
Canister Serial No.: 2227  
Flow Controller No.: 01640  
Sample Date(s): 2/3/2021  
Shipping Date: 2/3/2021  
Sample Type:  Indoor Air  Outdoor Air  
 Subslab, complete section below  Soil Gas  
Soil Gas Probe Depth: NA

### FIELD SAMPLING INFORMATION:

| READING                           | TIME  | VACUUM (inches Hg) or PRESSURE (psig) | DATE     | INITIALS |
|-----------------------------------|-------|---------------------------------------|----------|----------|
| Lab Vacuum (on tag)               | --    | -28.7 " Hg                            | --       | LAB      |
| Field Vacuum Check <sup>1</sup>   | --    | --                                    | --       | --       |
| Initial Field Vacuum <sup>2</sup> | 7:40  | -27.64 " Hg                           | 2/3/2021 | CCB      |
| Final Field Vacuum <sup>3</sup>   | 14:25 | -6.70 " Hg                            | 2/3/2021 | CCB      |
| Duration of Sample Collection     | 8 HR  |                                       |          |          |

### LABORATORY CANISTER PRESSURIZATION:

|                                     |             |  |
|-------------------------------------|-------------|--|
| Initial Vacuum (inches Hg and psia) | -27.64 " Hg |  |
| Final Pressure (psia)               | -6.70 " Hg  |  |
| Pressurization Gas                  |             |  |

### SUBSLAB SHROUD:

Shroud Helium Concentration: NA  
Calculated tubing volume: x 3 =  
Purged Tubing Volume Concentration:  
Is the purged volume concentration less than or equal to 10% in shroud?  
 YES, continue sampling  
 NO, improve surface seal and retest

| COMPOSITE TIME (hours) | FLOW RATE RANGE (ml/min) |
|------------------------|--------------------------|
| 15 Min.                | 316 - 333                |
| 0.5 Hours              | 158 - 166.7              |
| 1                      | 79.2 - 83.3              |
| 2                      | 39.6 - 41.7              |
| 4                      | 19.8 - 20.8              |
| 6                      | 13.2 - 13.9              |
| 8                      | 9.9 - 10.4               |
| 10                     | 7.92 - 8.3               |
| 12                     | 6.6 - 6.9                |
| 24                     | 3.5 - 4.0                |

### NOTES:

- 1 Vacuum measured using portable vacuum gauge (provided by Lab)
- 2 Vacuum measured by canister gauge upon opening valve
- 3 Vacuum measured by canister gauge prior to closing valve

Signed: CAROLINE BUKOWSKI

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

---

Project Name: 73-79 W. Huron Street Project No. B0441-020-001 (004)

Project Location: 73-79 W. Huron Street, Buffalo NY Client: Emerson Huron, LLC

Preparer's Name: Caroline Bukowski Date/Time: 2/3/2021 7:00

Preparer's Affiliation: Phone No: 716-856-0599

Purpose of Investigation: SVI Investigation

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### **1. OCCUPANT:**

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

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

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

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

---

### **3. BUILDING CHARACTERISTICS**

Type of Building: check appropriate response)

- |                                      |                                            |                                               |
|--------------------------------------|--------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Residential | <input checked="" type="checkbox"/> School | <input type="checkbox"/> Commercial/Multi-use |
| <input type="checkbox"/> Industrial  | <input type="checkbox"/> Church            | <input type="checkbox"/> Other:               |
- 

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

- |                                       |                                          |                                          |
|---------------------------------------|------------------------------------------|------------------------------------------|
| <input type="checkbox"/> Ranch        | <input type="checkbox"/> 2-Family        | <input type="checkbox"/> 3-Family        |
| <input type="checkbox"/> Raised Ranch | <input type="checkbox"/> Split Level     | <input type="checkbox"/> Colonial        |
| <input type="checkbox"/> Cape Cod     | <input type="checkbox"/> Contemporary    | <input type="checkbox"/> Mobile Home     |
| <input type="checkbox"/> Duplex       | <input type="checkbox"/> Apartment House | <input type="checkbox"/> Townhouse/Condo |
| <input type="checkbox"/> Modular      | <input type="checkbox"/> Log Home        | <input type="checkbox"/> Other:          |
- 

If multiple units, how many?

If the property is commercial, type?

Business Type(s):

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

Other Characteristics:

Number of floors 6 Building age +100 years

Is the building insulated? yes no How air tight? tight average not tight

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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### 4. AIR FLOW

---

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

NA

Airflow between floors

---



---

Airflow near source

---



---

Outdoor air infiltration

---



---

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

Basement/Lowest level depth below grade: ~15 ft

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

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## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

### 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)

- |                                                         |                                          |                                              |
|---------------------------------------------------------|------------------------------------------|----------------------------------------------|
| <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 checked="" type="checkbox"/> Basement | <input 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.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### 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      School classrooms, school supply storage, and utilities

First Floor      School classrooms

Second Floor      School classrooms

Third Floor      School classrooms

Fourth Floor      School classrooms

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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

- a. Is there an attached garage?  yes  no
- 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? Paint & other supplies located in basement  
related to redevelopment
- 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? Typical school cleaning and disinfecting
- i. Have cosmetic products been used recently?  yes  no  
If yes, when & type? \_\_\_\_\_
- j. Has painting/staining been done in the last 6 months?  yes  no  
If yes, where & when? Paint is stored in basement
- 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? Unknown
- m. Is there a kitchen exhaust fan?  yes  no  
If yes, where vented? \_\_\_\_\_
- n. Is there a bathroom exhaust fan?  yes  no  
If yes, where vented? Dedicated Outdoor Air System from  
basement bathrooms

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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### 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

---

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?

---

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    Washer and dryer are located in the basement for education purposes

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

---

## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

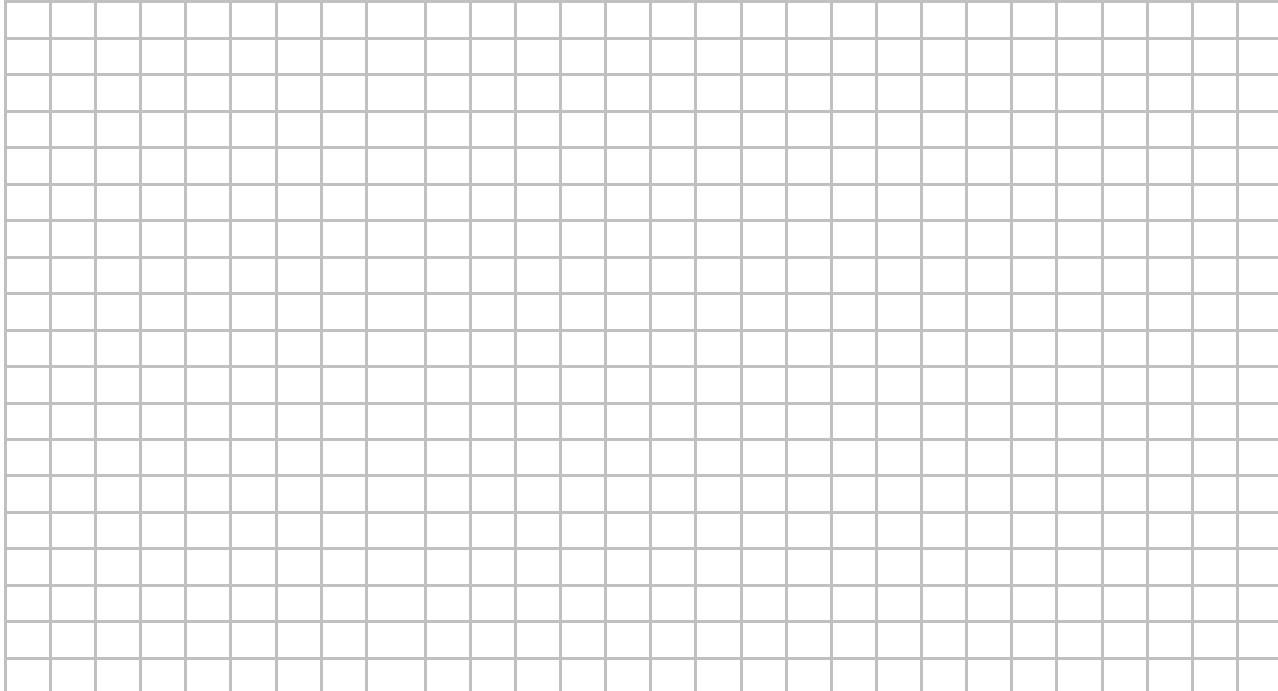
### 11. FLOOR PLANS

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.

**Basement:**



**First Floor:**



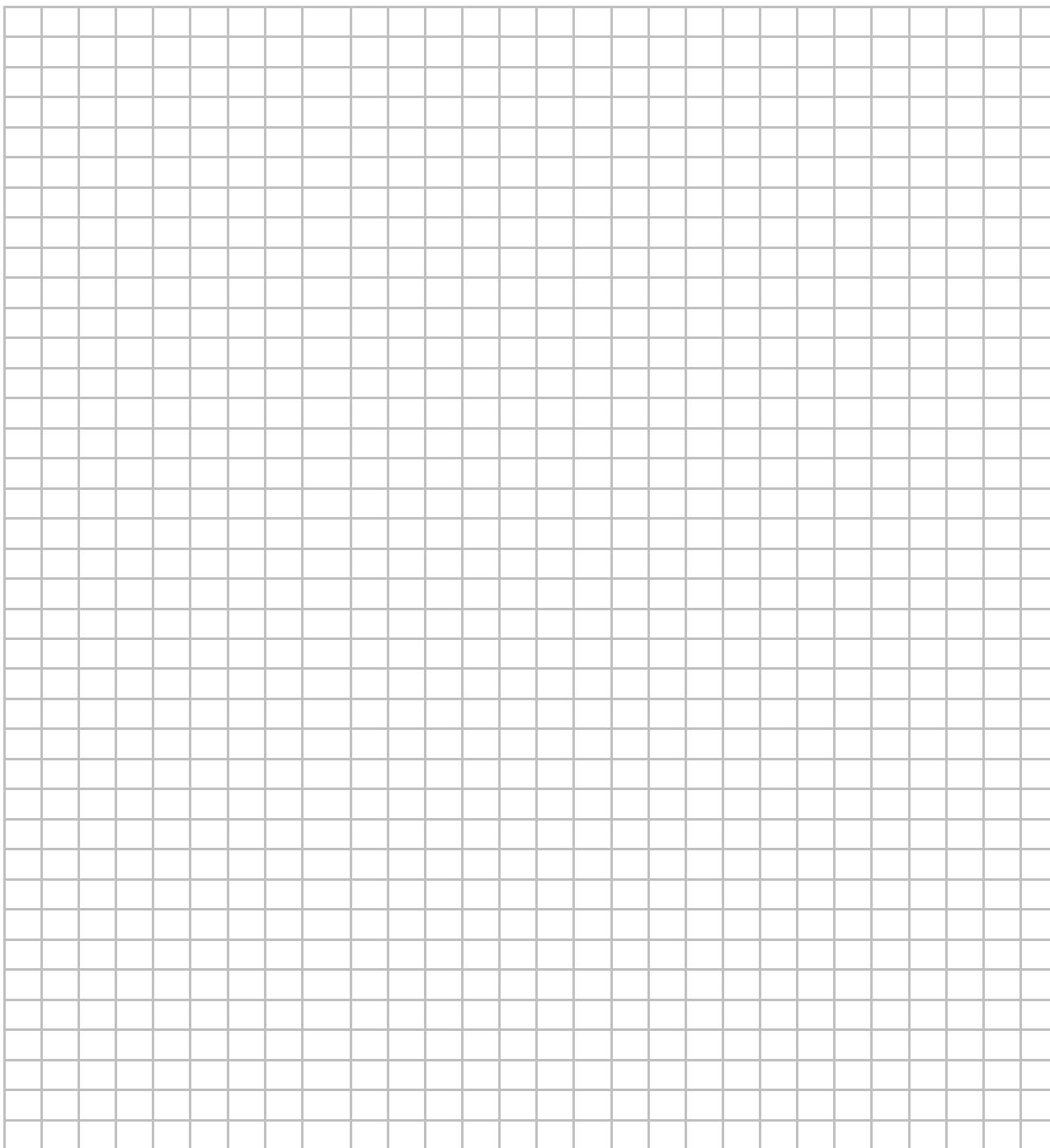
## INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



# INDOOR AIR QUALITY QUESTIONNAIRE & BUILDING INVENTORY

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## 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the structure that have the potential to affect indoor air quality.

| Location       | Product Description                    | Size (units) | Condition <sup>1</sup> | Chemical Ingredients                                                                                                                                  | Field Instrument Reading (units) | Photo (Y/N) |
|----------------|----------------------------------------|--------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|
| Basement North | Foaming Hand Sanitizer-Symmetry        | (6) 550 mL   | U                      | Ethyl Alcohol                                                                                                                                         |                                  | Y           |
| Basement North | Oxivir TB Wipes                        | (4) 1.9 lbs  | U                      | Hydrogen Peroxide                                                                                                                                     |                                  | Y           |
| Basement       | Fire Extinguisher                      |              | UO                     |                                                                                                                                                       |                                  | Y           |
| Basement South | Corr Neutra Clean Floor Cleaner        | 5 gal        | U                      | Nonylphenol Ethoxylate, Tetrasodium ethylenediamine tetraacetate, Sodium Xylene Sulfonate                                                             |                                  | Y           |
| Basement South | SSS Navigator #61 ACE 256 Disinfectant | 2 L          | U                      | Alkyl dimethylbenzyl ammonium chloride(C12-C16), Didecyl dimethyl ammonium chloride, Nonylphenol Ethoxylate, Tetrasodium ethylenediamine tetraacetate |                                  | Y           |
| Basement South | Paints, Primers, and Adhesive          | Multiple     | U                      |                                                                                                                                                       |                                  | 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.

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## **ATTACHMENT 2**

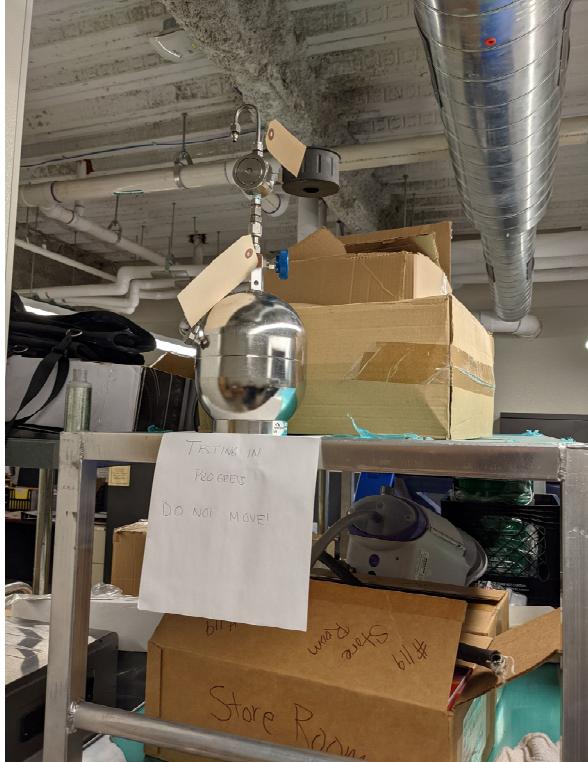
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### **Photo Log**



## PHOTOGRAPHIC LOG

|                                           |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client Name:</b><br>Emerson Huron, LLC | <b>Site Location:</b><br>73-79 W. Huron Street Site | <b>Project No.:</b><br>B0441-020-001 (004)                                                                                                                                                                                                                                                                                                                                                             |
| <b>Photo No.</b><br><b>1</b>              | <b>Date</b><br>02/03/21                             |  A photograph showing a grey electrical control panel with a 'SQUARE D' label. A stainless steel cylinder with a valve is connected to the panel. Above the panel, there are two red fire alarm boxes mounted on the wall. To the left is a vertical metal cabinet, and to the right is a large metal duct or pipe. |

|                              |                         |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Photo No.</b><br><b>2</b> | <b>Date</b><br>02/03/21 |  A photograph showing a stainless steel cylinder with a valve, connected to a piping system. The cylinder is positioned next to a stack of cardboard boxes. A white sign in front of the cylinder reads 'TESTING IN PROGRESS DO NOT MOVE'. The background shows concrete walls and various pipes and ductwork. |
|------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## PHOTOGRAPHIC LOG

|                                           |                                                     |                                            |
|-------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| <b>Client Name:</b><br>Emerson Huron, LLC | <b>Site Location:</b><br>73-79 W. Huron Street Site | <b>Project No.:</b><br>B0441-020-001 (004) |
| <b>Photo No.</b><br><b>3</b>              | <b>Date</b><br>02/03/21                             |                                            |

|                               |                         |  |
|-------------------------------|-------------------------|--|
| <b>Photo No.</b><br><b>4</b>  | <b>Date</b><br>02/03/21 |  |
| <b>Direction Photo Taken:</b> |                         |  |



## PHOTOGRAPHIC LOG

|                                                      |                      |                                                                                     |                                            |
|------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Client Name:</b><br>Emerson Huron, LLC            |                      | <b>Site Location:</b><br>73-79 W. Huron Street Site                                 | <b>Project No.:</b><br>B0441-020-001 (004) |
| Photo No.<br><br>5                                   | Date<br><br>02/03/21 |  |                                            |
| <b>Direction Photo Taken:</b>                        |                      |                                                                                     |                                            |
| <b>Description:</b><br>Chemical Inventory - Basement |                      |                                                                                     |                                            |

|                                                      |                      |                                                                                      |  |
|------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------|--|
| Photo No.<br><br>6                                   | Date<br><br>02/03/21 |  |  |
| <b>Direction Photo Taken:</b>                        |                      |                                                                                      |  |
| <b>Description:</b><br>Chemical Inventory - Basement |                      |                                                                                      |  |



## PHOTOGRAPHIC LOG

|                                           |                                                     |                                            |
|-------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| <b>Client Name:</b><br>Emerson Huron, LLC | <b>Site Location:</b><br>73-79 W. Huron Street Site | <b>Project No.:</b><br>B0441-020-001 (004) |
| <b>Photo No.</b><br>7                     | <b>Date</b><br>02/03/21                             |                                            |
| <b>Direction Photo Taken:</b>             |                                                     |                                            |

|                               |                         |  |
|-------------------------------|-------------------------|--|
| <b>Photo No.</b><br>8         | <b>Date</b><br>02/03/21 |  |
| <b>Direction Photo Taken:</b> |                         |  |

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## **ATTACHMENT 3**

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### **Analytical Laboratory Report**



## ANALYTICAL REPORT

|                 |                                                                     |
|-----------------|---------------------------------------------------------------------|
| Lab Number:     | L2105298                                                            |
| Client:         | Benchmark & Turnkey Companies<br>2558 Hamburg Turnpike<br>Suite 300 |
|                 | Buffalo, NY 14218                                                   |
| ATTN:           | Caroline Bukowski                                                   |
| Phone:          | (716) 856-0599                                                      |
| Project Name:   | 73 - 79 WEST HURON                                                  |
| Project Number: | B0441-020-001(004)                                                  |
| Report Date:    | 02/10/21                                                            |

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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Alpha<br>Sample ID | Client ID | Matrix | Sample<br>Location | Collection<br>Date/Time | Receive Date |
|--------------------|-----------|--------|--------------------|-------------------------|--------------|
| L2105298-01        | IA-1      | AIR    | BUFFALO, NY        | 02/03/21 14:17          | 02/03/21     |
| L2105298-02        | IA-2      | AIR    | BUFFALO, NY        | 02/03/21 14:10          | 02/03/21     |
| L2105298-03        | OA-1      | AIR    | BUFFALO, NY        | 02/03/21 14:25          | 02/03/21     |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### 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.

---

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on January 29, 2021. The canister certification results are provided as an addendum.

The WG1462433-3 LCS recovery for 1,2,4-trichlorobenzene (150%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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* Christopher J. Anderson

Title: Technical Director/Representative

Date: 02/10/21

**AIR**



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-01 | Date Collected: | 02/03/21 14:17 |
| Client ID:       | IA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
 Anaytical Method: 48,TO-15  
 Analytical Date: 02/06/21 18:46  
 Analyst: RY

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| <b>Volatile Organics in Air - Mansfield Lab</b> |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                         | 0.369   | 0.200 | --  | 1.82    | 0.989 | --  |           | 1               |
| Chloromethane                                   | 0.513   | 0.200 | --  | 1.06    | 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                                         | 17.6    | 5.00  | --  | 33.2    | 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               |
| 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-01 | Date Collected: | 02/03/21 14:17 |
| Client ID:       | IA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| Parameter                                       | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                 |         | RL    | MDL | RL    | MDL   |           |                 |
| <b>Volatile Organics in Air - Mansfield Lab</b> |         |       |     |       |       |           |                 |
| 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-01 | Date Collected: | 02/03/21 14:17 |
| Client ID:       | IA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| Parameter                                       | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                 |         | RL    | MDL | 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 | 92         |           | 60-140              |
| Bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 91         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-01 | Date Collected: | 02/03/21 14:17 |
| Client ID:       | IA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 02/06/21 18:46  
Analyst: RY

| Parameter                                              | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|--------------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                        |         | RL    | MDL | 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                                   | 0.056   | 0.020 | --  | 0.352 | 0.126 | --        | 1               |
| Trichloroethene                                        | ND      | 0.020 | --  | ND    | 0.107 | --        | 1               |
| Tetrachloroethene                                      | 0.040   | 0.020 | --  | 0.271 | 0.136 | --        | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-difluorobenzene | 91         |           | 60-140              |
| bromochloromethane  | 94         |           | 60-140              |
| chlorobenzene-d5    | 92         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-02 | Date Collected: | 02/03/21 14:10 |
| Client ID:       | IA-2        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
Anaytical Method: 48,TO-15  
Analytical Date: 02/06/21 19:30  
Analyst: RY

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| <b>Volatile Organics in Air - Mansfield Lab</b> |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                         | 0.375   | 0.200 | --  | 1.85    | 0.989 | --  |           | 1               |
| Chloromethane                                   | 0.569   | 0.200 | --  | 1.18    | 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                                         | 409     | 5.00  | --  | 771     | 9.42  | --  |           | 1               |
| Vinyl bromide                                   | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                         | 3.05    | 1.00  | --  | 7.25    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                          | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                     | 1.18    | 0.500 | --  | 2.90    | 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                                 | 0.571   | 0.500 | --  | 1.68    | 1.47  | --  |           | 1               |



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### **SAMPLE RESULTS**

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-02 | Date Collected: | 02/03/21 14:10 |
| Client ID:       | IA-2        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| <b>Parameter</b>                                | <b>Results</b> | <b>ppbV</b> |            | <b>ug/m3</b> |            | <b>Qualifier</b> | <b>Dilution Factor</b> |
|-------------------------------------------------|----------------|-------------|------------|--------------|------------|------------------|------------------------|
|                                                 |                | <b>RL</b>   | <b>MDL</b> | <b>RL</b>    | <b>MDL</b> |                  |                        |
| <b>Volatile Organics in Air - Mansfield Lab</b> |                |             |            |              |            |                  |                        |
| 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                                     | 0.250          | 0.200       | --         | 0.861        | 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                                         | 0.368          | 0.200       | --         | 1.39         | 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                                         | 0.322          | 0.200       | --         | 1.37         | 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-02 | Date Collected: | 02/03/21 14:10 |
| Client ID:       | IA-2        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| Parameter                                       | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                 |         | RL    | MDL | 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 | 91         |           | 60-140              |
| Bromochloromethane  | 94         |           | 60-140              |
| chlorobenzene-d5    | 88         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-02 | Date Collected: | 02/03/21 14:10 |
| Client ID:       | IA-2        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 02/06/21 19:30  
Analyst: RY

| Parameter                                              | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|--------------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                        |         | RL    | MDL | 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                                   | 0.059   | 0.020 | --  | 0.371 | 0.126 | --        | 1               |
| Trichloroethene                                        | ND      | 0.020 | --  | ND    | 0.107 | --        | 1               |
| Tetrachloroethene                                      | 0.020   | 0.020 | --  | 0.136 | 0.136 | --        | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-difluorobenzene | 89         |           | 60-140              |
| bromochloromethane  | 93         |           | 60-140              |
| chlorobenzene-d5    | 87         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-03 | Date Collected: | 02/03/21 14:25 |
| Client ID:       | OA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
Anaytical Method: 48,TO-15  
Analytical Date: 02/06/21 18:02  
Analyst: RY

| Parameter                                       | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                 | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| <b>Volatile Organics in Air - Mansfield Lab</b> |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                         | 0.364   | 0.200 | --  | 1.80    | 0.989 | --  |           | 1               |
| Chloromethane                                   | 0.494   | 0.200 | --  | 1.02    | 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                                         | 12.2    | 5.00  | --  | 23.0    | 9.42  | --  |           | 1               |
| Vinyl bromide                                   | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                         | 1.79    | 1.00  | --  | 4.25    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                          | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                     | 0.520   | 0.500 | --  | 1.28    | 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                                   | 1.61    | 0.500 | --  | 5.80    | 1.80  | --  |           | 1               |
| Chloroform                                      | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |
| Tetrahydrofuran                                 | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-03 | Date Collected: | 02/03/21 14:25 |
| Client ID:       | OA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| Parameter                                       | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                 |         | RL    | MDL | RL    | MDL   |           |                 |
| <b>Volatile Organics in Air - Mansfield Lab</b> |         |       |     |       |       |           |                 |
| 1,2-Dichloroethane                              | ND      | 0.200 | --  | ND    | 0.809 | --        | 1               |
| n-Hexane                                        | ND      | 0.200 | --  | ND    | 0.705 | --        | 1               |
| Benzene                                         | 0.200   | 0.200 | --  | 0.639 | 0.639 | --        | 1               |
| Cyclohexane                                     | 0.878   | 0.200 | --  | 3.02  | 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                                         | 0.535   | 0.200 | --  | 2.02  | 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-03 | Date Collected: | 02/03/21 14:25 |
| Client ID:       | OA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

| Parameter                                       | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|-------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                 |         | RL    | MDL | 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 | 94         |           | 60-140              |
| Bromochloromethane  | 96         |           | 60-140              |
| chlorobenzene-d5    | 91         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### SAMPLE RESULTS

|                  |             |                 |                |
|------------------|-------------|-----------------|----------------|
| Lab ID:          | L2105298-03 | Date Collected: | 02/03/21 14:25 |
| Client ID:       | OA-1        | Date Received:  | 02/03/21       |
| Sample Location: | BUFFALO, NY | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
Analytical Method: 48,TO-15-SIM  
Analytical Date: 02/06/21 18:02  
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                                   | 0.056   | 0.020 | --  | 0.352   | 0.126 | --  |           | 1               |
| Trichloroethene                                        | ND      | 0.020 | --  | ND      | 0.107 | --  |           | 1               |
| Tetrachloroethene                                      | 0.027   | 0.020 | --  | 0.183   | 0.136 | --  |           | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-difluorobenzene | 93         |           | 60-140              |
| bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 91         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15  
Analytical Date: 02/06/21 15:58

| Parameter                                                                               | ppbV    |       |     | ug/m3   |       |     | Dilution Factor |
|-----------------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------------|
|                                                                                         | Results | RL    | MDL | Results | RL    | MDL |                 |
| <b>Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1462433-4</b> |         |       |     |         |       |     |                 |
| 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15  
Analytical Date: 02/06/21 15:58

| <b>Parameter</b>                                                                        | <b>ppbV</b>    |           |            | <b>ug/m3</b>   |           |            | <b>Dilution Factor</b> |
|-----------------------------------------------------------------------------------------|----------------|-----------|------------|----------------|-----------|------------|------------------------|
|                                                                                         | <b>Results</b> | <b>RL</b> | <b>MDL</b> | <b>Results</b> | <b>RL</b> | <b>MDL</b> |                        |
| <b>Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1462433-4</b> |                |           |            |                |           |            |                        |
| 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15  
Analytical Date: 02/06/21 15:58

| Parameter                                                                               | ppbV    |       |     | ug/m3   |       |     | Dilution Factor |
|-----------------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------------|
|                                                                                         | Results | RL    | MDL | Results | RL    | MDL |                 |
| <b>Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1462433-4</b> |         |       |     |         |       |     |                 |
| 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:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 48,TO-15-SIM  
Analytical Date: 02/06/21 16:39

| Parameter                                                                               | ppbV    |       |     | ug/m3   |       |     | Dilution Factor |
|-----------------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------------|
|                                                                                         | Results | RL    | MDL | Results | RL    | MDL |                 |
| Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1462434-4 |         |       |     |         |       |     |                 |
| 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               |



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1462433-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 85               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 104              |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 99               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 88               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 106              |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 90               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 88               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 80               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 89               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 63               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 73               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 78               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 83               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 78               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 104              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 94               |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 93               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 88               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 86               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 90               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 91               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 97               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 91               |      | -                 |      | 70-130              | -   |      |               |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1462433-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 94               |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 72               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 100              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 83               |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 99               |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 87               |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 100              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 105              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 100              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 106              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 104              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 88               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 104              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 106              |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 113              |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 110              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 116              |      | -                 |      | 70-130              | -   |      |               |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1462433-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 112              |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 116              |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 112              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 112              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 115              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 119              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 127              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 115              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 112              |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 117              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 120              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 116              |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 128              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 123              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 124              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 150              | Q    | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 130              |      | -                 |      | 70-130              | -   |      |               |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| <b>Parameter</b>                                                                               | <i>LCS</i><br>%Recovery | <i>LCSD</i><br>%Recovery | <i>RPD</i><br><i>Qual</i> | <i>%Recovery</i><br><i>Limits</i> | <i>RPD</i><br><i>Limits</i> |
|------------------------------------------------------------------------------------------------|-------------------------|--------------------------|---------------------------|-----------------------------------|-----------------------------|
|                                                                                                | <i>Qual</i>             | <i>Qual</i>              |                           |                                   |                             |
| Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1462434-3 |                         |                          |                           |                                   |                             |
| Vinyl chloride                                                                                 | 83                      | -                        | -                         | 70-130                            | -                           |
| 1,1-Dichloroethene                                                                             | 78                      | -                        | -                         | 70-130                            | -                           |
| cis-1,2-Dichloroethene                                                                         | 87                      | -                        | -                         | 70-130                            | -                           |
| 1,1,1-Trichloroethane                                                                          | 78                      | -                        | -                         | 70-130                            | -                           |
| Carbon tetrachloride                                                                           | 83                      | -                        | -                         | 70-130                            | -                           |
| Trichloroethene                                                                                | 95                      | -                        | -                         | 70-130                            | -                           |
| Tetrachloroethene                                                                              | 110                     | -                        | -                         | 70-130                            | -                           |

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1462433-5 QC Sample: L2105298-02 Client ID: IA-2 |               |                  |       |     |      |            |
| Dichlorodifluoromethane                                                                                                              | 0.375         | 0.365            | ppbV  | 3   |      | 25         |
| Chloromethane                                                                                                                        | 0.569         | 0.557            | ppbV  | 2   |      | 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                                                                                                                              | 409           | 449              | ppbV  | 9   |      | 25         |
| Vinyl bromide                                                                                                                        | ND            | ND               | ppbV  | NC  |      | 25         |
| Acetone                                                                                                                              | 3.05          | 3.04             | ppbV  | 0   |      | 25         |
| Trichlorofluoromethane                                                                                                               | ND            | ND               | ppbV  | NC  |      | 25         |
| Isopropanol                                                                                                                          | 1.18          | 1.24             | ppbV  | 5   |      | 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                                                                                                                           | ND            | ND               | ppbV  | NC  |      | 25         |
| Ethyl Acetate                                                                                                                        | ND            | ND               | ppbV  | NC  |      | 25         |

# Lab Duplicate Analysis

## Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1462433-5 QC Sample: L2105298-02 Client ID: IA-2 |               |                  |       |     |      |            |
| Chloroform                                                                                                                           | ND            | ND               | ppbV  | NC  |      | 25         |
| Tetrahydrofuran                                                                                                                      | 0.571         | 0.566            | ppbV  | 1   |      | 25         |
| 1,2-Dichloroethane                                                                                                                   | ND            | ND               | ppbV  | NC  |      | 25         |
| n-Hexane                                                                                                                             | ND            | ND               | ppbV  | NC  |      | 25         |
| Benzene                                                                                                                              | ND            | ND               | ppbV  | NC  |      | 25         |
| Cyclohexane                                                                                                                          | 0.250         | 0.244            | ppbV  | 2   |      | 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                                                                                                                              | 0.368         | 0.360            | ppbV  | 2   |      | 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                                                                                                                         | ND            | ND               | ppbV  | NC  |      | 25         |

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

| Parameter                                                                                                                            | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1462433-5 QC Sample: L2105298-02 Client ID: IA-2 |               |                  |       |     |      |            |
| p/m-Xylene                                                                                                                           | ND            | ND               | ppbV  | NC  |      | 25         |
| Bromoform                                                                                                                            | ND            | ND               | ppbV  | NC  |      | 25         |
| Styrene                                                                                                                              | 0.322         | 0.307            | ppbV  | 5   |      | 25         |
| 1,1,2,2-Tetrachloroethane                                                                                                            | ND            | ND               | ppbV  | NC  |      | 25         |
| o-Xylene                                                                                                                             | ND            | ND               | ppbV  | NC  |      | 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         |

|                                                                                                                                             |       |       |      |    |  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|----|--|----|
| Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1462434-5 QC Sample: L2105298-02 Client ID: IA-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                                                                                                                        | 0.059 | 0.055 | ppbV | 7  |  | 25 |
| Trichloroethene                                                                                                                             | ND    | ND    | ppbV | NC |  | 25 |
| Tetrachloroethene                                                                                                                           | 0.020 | ND    | ppbV | NC |  | 25 |

**Project Name:** 73 - 79 WEST HURON

Serial\_No:02102111:27

**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298

**Report Date:** 02/10/21

### 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 |
|-------------|-----------|----------|------------|---------------|--------------|-------------------|----------------|---------------------------|------------------------------|--------------------------|-----------------|----------------|-------|
| L2105298-01 | IA-1      | 01719    | Flow 5     | 01/29/21      | 342063       |                   | -              | -                         | -                            | Pass                     | 4.5             | 3.8            | 17    |
| L2105298-01 | IA-1      | 147B     | 2.7L Can   | 01/29/21      | 342063       | L2102590-06       | Pass           | -29.5                     | -8.7                         | -                        | -               | -              | -     |
| L2105298-02 | IA-2      | 0478     | Flow 5     | 01/29/21      | 342063       |                   | -              | -                         | -                            | Pass                     | 4.5             | 4.1            | 9     |
| L2105298-02 | IA-2      | 2310     | 2.7L Can   | 01/29/21      | 342063       | L2102590-06       | Pass           | -29.3                     | -8.3                         | -                        | -               | -              | -     |
| L2105298-03 | OA-1      | 01640    | Flow 5     | 01/29/21      | 342063       |                   | -              | -                         | -                            | Pass                     | 4.5             | 4.1            | 9     |
| L2105298-03 | OA-1      | 2227     | 2.7L Can   | 01/29/21      | 342063       | L2102590-06       | Pass           | -28.7                     | -4.6                         | -                        | -               | -              | -     |

Project Name: BATCH CANISTER CERTIFICATION

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

|                  |                  |                 |                |
|------------------|------------------|-----------------|----------------|
| Lab ID:          | L2102590-06      | Date Collected: | 01/18/21 09:00 |
| Client ID:       | CAN 2021 SHELF 9 | Date Received:  | 01/18/21       |
| Sample Location: |                  | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 01/20/21 20:45  
 Analyst: TS

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



Project Name: BATCH CANISTER CERTIFICATION

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: 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> |         |       |     |         |       |     |           |                 |
| 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

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: 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> |         |       |     |         |       |     |           |                 |
| 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

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: 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> |         |       |     |         |       |     |           |                 |
| 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

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: Field Prep: Not Specified

Sample Depth:

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

|  | Results | Qualifier | Units | RDL |  |
|--|---------|-----------|-------|-----|--|
|--|---------|-----------|-------|-----|--|

Tentatively Identified Compounds

No Tentatively Identified Compounds

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 98         |           | 60-140              |
| Bromochloromethane  | 98         |           | 60-140              |
| chlorobenzene-d5    | 95         |           | 60-140              |

Project Name: BATCH CANISTER CERTIFICATION

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

|                  |                  |                 |                |
|------------------|------------------|-----------------|----------------|
| Lab ID:          | L2102590-06      | Date Collected: | 01/18/21 09:00 |
| Client ID:       | CAN 2021 SHELF 9 | Date Received:  | 01/18/21       |
| Sample Location: |                  | Field Prep:     | Not Specified  |

Sample Depth:

Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 01/20/21 20:45  
 Analyst: TS

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



Project Name: BATCH CANISTER CERTIFICATION

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: Field Prep: Not Specified

Sample Depth:

| Parameter                                              | Results | ppbV  |     | ug/m3   |       | Qualifier | Dilution Factor |
|--------------------------------------------------------|---------|-------|-----|---------|-------|-----------|-----------------|
|                                                        |         | RL    | MDL | Results | RL    |           |                 |
| <b>Volatile Organics in Air by SIM - Mansfield Lab</b> |         |       |     |         |       |           |                 |
| 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

Lab Number: L2102590

Project Number: CANISTER QC BAT

Report Date: 02/10/21

## Air Canister Certification Results

Lab ID: L2102590-06 Date Collected: 01/18/21 09:00  
 Client ID: CAN 2021 SHELF 9 Date Received: 01/18/21  
 Sample Location: Field Prep: Not Specified

Sample Depth:

| Parameter                                              | Results | ppbV  |     | ug/m3 |       | Qualifier | Dilution Factor |
|--------------------------------------------------------|---------|-------|-----|-------|-------|-----------|-----------------|
|                                                        |         | RL    | MDL | RL    | MDL   |           |                 |
| <b>Volatile Organics in Air by SIM - Mansfield Lab</b> |         |       |     |       |       |           |                 |
| 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 | 99         |           | 60-140              |
| bromochloromethane  | 100        |           | 60-140              |
| chlorobenzene-d5    | 96         |           | 60-140              |

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

Serial\_No:02102111:27  
**Lab Number:** L2105298  
**Report Date:** 02/10/21

### **Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

#### **Cooler Information**

| <b>Cooler</b> | <b>Custody Seal</b> |
|---------------|---------------------|
| N/A           | 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>       |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------------|
| L2105298-01A        | Canister - 2.7 Liter  | N/A           | NA                |                 |                   | Y           | Absent      |                         | TO15-LL(30),TO15-SIM(30) |
| L2105298-02A        | Canister - 2.7 Liter  | N/A           | NA                |                 |                   | Y           | Absent      |                         | TO15-SIM(30),TO15-LL(30) |
| L2105298-03A        | Canister - 2.7 Liter  | N/A           | NA                |                 |                   | Y           | Absent      |                         | TO15-SIM(30),TO15-LL(30) |

\*Values in parentheses indicate holding time in days

**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

## 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.                                                                                                                                                                                                                                                                                                                                                                             |
| NR       | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.                                                                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                                     |

Report Format: Data Usability Report



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

#### Footnotes

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

#### Terms

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

**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 Fluoranthrenes/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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). 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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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

**Report Format:** Data Usability Report



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

*Report Format: Data Usability Report*



**Project Name:** 73 - 79 WEST HURON  
**Project Number:** B0441-020-001(004)

**Lab Number:** L2105298  
**Report Date:** 02/10/21

## 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 its 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, Naphthalene  
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 6004-81-045**: 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, Na, Sr, Ti, V, 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, Ti, V, Zn.

**EPA 200.8**: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, Sr, Ti, V, 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

## CHAIN OF CUSTODY

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

## Client Information

Client: Benchmark Environmental Eng.  
Address: 2558 Hamburg Turnpike  
Buffalo NY 14218  
Phone: 716-856-0599  
Fax:

Email: Cbukowski@bm-tk.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

CATB

Project-Specific Target Compound List:

## All Columns Below Must Be Filled Out

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID | COLLECTION |            |          |                |              | Sample Matrix* | Sampler's Initials | Can Size | ID Can    | ID - Flow Controller | TO-15 | TO-15 SIM | APH | Subtract Non-halogenated HCs | Fixed Gases | Subducts & Mercaptans by TO-15 | Sample Comments (i.e. PID)                         |
|--------------------------------|-----------|------------|------------|----------|----------------|--------------|----------------|--------------------|----------|-----------|----------------------|-------|-----------|-----|------------------------------|-------------|--------------------------------|----------------------------------------------------|
|                                |           | End Date   | Start Time | End Time | Initial Vacuum | Final Vacuum |                |                    |          |           |                      |       |           |     |                              |             |                                |                                                    |
| 05298-01                       | 1A-1      | 2/3/21     | 730        | 1417     | -3034          | -925         | AA             | CCB                | 27L      | 147B01719 | XX                   |       |           |     |                              |             |                                |                                                    |
| 02                             | 1A-2      | 2/3/21     | 720        | 1410     | -29.81         | -9.91        | AA             | CCB                | 2.7L     | 23100478  | XX                   |       |           |     |                              |             |                                |                                                    |
| 03                             | 0A-1      | 2/3/21     | 740        | 1425     | -27.64         | -6.70        | AA             | CCB                | 2.7L     | 222701640 | XX                   |       |           |     |                              |             |                                | BLP site,<br>please use lowest<br>detection limits |

## \*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:

*Gil BLM AAC*  
*Mary Morris*  
*T. Hanch*

Date/Time

2/3/21 15:00  
2/3/21 16:30  
2/4/21 04:00  
2/4/21 05:15

Received By:

*Jm AL AAC*  
*pp mcmurtry*  
*F. Han*

Date/Time:

2/3/21 16:05  
2/4/21 00:25  
2/4/21 04:00  
2/4/21 05:15

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## **ATTACHMENT 4**

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**NYSDOH Guidance Values**

**FINAL**

**Guidance for Evaluating Soil Vapor Intrusion  
in the State of New York**

**October 2006**

**NOTE: Updates to this final guidance are available at  
[health.ny.gov/environmental/indoors/vapor\\_intrusion/update.htm](http://health.ny.gov/environmental/indoors/vapor_intrusion/update.htm)**

Prepared by:



**Department  
of Health**

**NEW YORK STATE DEPARTMENT OF HEALTH  
Center for Environmental Health  
Bureau of Environmental Exposure Investigation**

**Table C2. EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® canister method**All results are micrograms per cubic meter (mcg/m<sup>3</sup>).

| Compound               | INDOOR AIR |        |     |       |      |      |        |      |       |       |       |        |
|------------------------|------------|--------|-----|-------|------|------|--------|------|-------|-------|-------|--------|
|                        | ND         | ND(%)  | N   | Mean* | Min  | 25th | Median | 75th | 90th  | 95th  | 99th  | Max    |
| 1,1,1-TRICHLOROETHANE  | 7          | 2.3%   | 298 | 16.2  | <0.5 | 2.6  | 5.1    | 10.8 | 20.6  | 33.0  | 737.9 | 833.2  |
| 1,1,2-TRICHLOROETHANE  | 136        | 100.0% | 136 | 0.6   | <0.6 | <1.0 | <1.3   | <1.4 | <1.5  | <1.6  | <2.1  | <2.3   |
| 1,1-DICHLOROETHANE     | 136        | 100.0% | 136 | 0.2   | <0.2 | <0.4 | <0.5   | <0.5 | <0.7  | <0.8  | <0.9  | <0.9   |
| 1,1-DICHLOROETHENE     | 136        | 100.0% | 136 | 0.5   | <0.7 | <0.9 | <1.1   | <1.2 | <1.4  | <1.6  | <1.7  | <1.8   |
| 1,2,4-TRICHLOROBENZENE | 136        | 100.0% | 136 | 1.1   | <0.6 | <0.9 | <1.0   | <1.2 | <6.8  | <7.2  | <8.1  | <8.2   |
| 1,2,4-TRIMETHYLBENZENE | 52         | 17.7%  | 294 | 4.8   | <0.4 | 1.7  | 2.8    | 5.1  | 9.5   | 13.7  | 39.0  | 91.0   |
| 1,2-DIBROMOETHANE      | 258        | 99.6%  | 259 | 0.6   | <0.8 | <1.1 | <1.3   | <1.4 | <1.5  | <1.6  | <2.7  | 1.4    |
| 1,2-DICHLOROBENZENE    | 255        | 98.5%  | 259 | 0.6   | <0.6 | <0.8 | <0.9   | <1.0 | <1.2  | <1.3  | 10.5  | 11.2   |
| 1,2-DICHLOROETHANE     | 254        | 98.1%  | 259 | 0.9   | <0.4 | <0.5 | <0.6   | <0.7 | <0.9  | <1.0  | 24.8  | 84.9   |
| 1,2-DICHLOROPROPANE    | 136        | 100.0% | 136 | 0.6   | <0.5 | <1.0 | <1.4   | <1.6 | <1.6  | <1.7  | <2.3  | <2.6   |
| 1,3,5-TRIMETHYLBENZENE | 206        | 79.5%  | 259 | 1.6   | <0.8 | <1.3 | <1.5   | <4.6 | 3.7   | 4.6   | 9.0   | 16.6   |
| 1,3-BUTADIENE          | 39         | 100.0% | 39  | 1.4   | <2.1 | <2.3 | <2.5   | <2.7 | <3.0  | <7.5  | <7.9  | <7.9   |
| 1,3-DICHLOROBENZENE    | 136        | 100.0% | 136 | 0.6   | <0.5 | <0.7 | <0.8   | <1.1 | <2.4  | <2.5  | <2.8  | <2.9   |
| 1,4-DICHLOROBENZENE    | 212        | 71.1%  | 298 | 3.1   | <0.5 | <0.8 | <1.2   | 1.4  | 5.5   | 12.5  | 80.5  | 87.1   |
| 1-BUTANOL              | 118        | 95.9%  | 123 | 42.7  | <2.4 | <3.6 | <4.0   | <4.3 | <4.8  | <7.9  | 35.3  | 4957.4 |
| 2-BUTANONE (MEK)       | 13         | 5.0%   | 259 | 6.2   | <1.4 | 3.3  | 5.2    | 7.5  | 12.0  | 13.5  | 28.1  | 55.4   |
| 2-BUTOXYETHANOL        | 123        | 100.0% | 123 | 4.0   | <4.8 | <7.2 | <8.0   | <8.6 | <9.3  | <10.4 | <16.4 | <16.8  |
| 2-ETHYL-1-HEXANOL      | 160        | 98.8%  | 162 | 3.2   | <1.1 | <5.0 | <7.6   | <8.4 | <9.2  | <9.7  | 8.2   | 8.4    |
| 2-METHYL-1-PROPANOL    | 30         | 76.9%  | 39  | 1.2   | <0.9 | <1.0 | <1.1   | <3.0 | 3.1   | 5.5   | 5.8   | 5.8    |
| 2-PROPANOL             | 8          | 20.5%  | 39  | 73.1  | <1.3 | 6.6  | 30.0   | 56.0 | 250.0 | 475.0 | 580.0 | 580.0  |
| 3-METHYL PENTANE       | 125        | 48.3%  | 259 | 3.1   | <0.9 | <1.7 | 1.4    | 4.2  | 6.5   | 8.3   | 22.9  | 35.4   |
| 4-ETHYLTOLUENE         | 212        | 81.9%  | 259 | 1.7   | <0.9 | <1.5 | <1.6   | <3.1 | 3.6   | 5.9   | 9.8   | 16.4   |
| 4-METHYL-2-PENTANONE   | 153        | 59.1%  | 259 | 3.1   | <0.7 | <1.2 | <1.5   | 3.0  | 6.0   | 8.1   | 58.4  | 72.5   |
| ACETONE                | 0          | 0.0%   | 259 | 54.0  | 11.6 | 32.4 | 45.0   | 59.8 | 98.9  | 120.2 | 226.6 | 243.7  |
| a-PINENE               | 238        | 79.9%  | 298 | 4.2   | <0.5 | <1.1 | <1.2   | <2.8 | 3.6   | 6.4   | 67.8  | 399.1  |
| BENZENE                | 56         | 19.0%  | 294 | 4.5   | <0.8 | 2.1  | 3.4    | 5.1  | 9.4   | 12.5  | 25.0  | 63.0   |
| BENZYL CHLORIDE        | 136        | 100.0% | 136 | 1.2   | <0.8 | <1.2 | <1.4   | <1.7 | <6.8  | <7.2  | <8.1  | <8.2   |
| BROMOMETHANE           | 246        | 95.0%  | 259 | 0.6   | <0.6 | <0.8 | <0.9   | <1.1 | <1.7  | <2.1  | 3.6   | 4.6    |
| BUTYL ACETATE          | 232        | 77.9%  | 298 | 2.9   | <0.9 | <1.5 | <1.8   | <5.2 | 4.5   | 15.8  | 35.3  | 50.6   |
| CARBON DISULFIDE       | 134        | 51.7%  | 259 | 1.9   | <0.5 | <0.8 | <1.3   | 2.1  | 4.2   | 6.4   | 14.8  | 24.5   |
| CARBON TETRACHLORIDE   | 241        | 93.1%  | 259 | 0.5   | <0.5 | <0.8 | <0.9   | <1.1 | <1.3  | 0.7   | 0.9   | 2.1    |
| CHLOROBENZENE          | 255        | 98.5%  | 259 | 0.4   | <0.4 | <0.6 | <0.7   | <0.8 | <0.9  | <1.0  | 1.0   | 1.2    |
| CHLOROETHANE           | 254        | 98.1%  | 259 | 1.1   | <0.6 | <0.8 | <0.9   | <1.0 | <1.1  | <1.3  | 47.9  | 56.7   |
| CHLOROFORM             | 203        | 78.4%  | 259 | 0.5   | <0.3 | <0.4 | <0.5   | <1.2 | 1.1   | 1.4   | 4.8   | 12.1   |
| CHLORMETHANE           | 2          | 0.8%   | 259 | 2.9   | <0.7 | 2.1  | 2.5    | 3.1  | 3.7   | 4.4   | 12.3  | 21.8   |
| CIS-1,2-DICHLOROETHENE | 136        | 100.0% | 136 | 0.6   | <0.6 | <0.8 | <1.0   | <1.2 | <1.9  | <2.0  | <2.2  | <2.3   |

(Continued)

**Table C2. EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® canister method -- Continued**All results are micrograms per cubic meter (mcg/m<sup>3</sup>).

| Compound                    | INDOOR AIR |        |     |       |      |      |        |       |       |       |        |        |
|-----------------------------|------------|--------|-----|-------|------|------|--------|-------|-------|-------|--------|--------|
|                             | ND         | ND(%)  | N   | Mean* | Min  | 25th | Median | 75th  | 90th  | 95th  | 99th   | Max    |
| CIS-1,3-DICHLOROPROPENE     | 136        | 100.0% | 136 | 0.9   | <1.2 | <1.7 | <1.9   | <2.0  | <2.3  | <2.5  | <2.9   | <3.2   |
| DICHLORODIFLUOROMETHANE     | 18         | 6.9%   | 259 | 13.8  | <4.8 | 4.8  | 6.7    | 10.5  | 16.5  | 32.9  | 81.3   | 942.3  |
| DICHLOROTETRAFLUOROETHANE   | 136        | 100.0% | 136 | 1.6   | <1.5 | <2.2 | <2.5   | <3.0  | <6.8  | <7.4  | <8.2   | <11.3  |
| DIMETHYL DISULFIDE          | 239        | 92.3%  | 259 | 2.0   | <1.4 | <2.1 | <2.4   | <2.7  | <3.7  | 3.6   | 32.4   | 70.4   |
| d-LIMONENE                  | 74         | 24.8%  | 298 | 10.8  | <0.7 | 2.5  | 5.3    | 11.3  | 22.5  | 43.7  | 136.7  | 148.0  |
| DODECANE                    | 107        | 35.9%  | 298 | 8.2   | <1.7 | <4.5 | 5.4    | 9.6   | 15.9  | 22.0  | 92.8   | 110.0  |
| ETHANOL                     | 3          | 7.7%   | 39  | 89.3  | <1.2 | 26.0 | 79.0   | 140.0 | 210.0 | 290.0 | 300.0  | 300.0  |
| ETHYL ACETATE               | 163        | 54.7%  | 298 | 3.0   | <0.6 | <1.0 | <2.6   | 3.2   | 5.4   | 9.5   | 59.0   | 64.2   |
| ETHYLBENZENE                | 144        | 49.0%  | 294 | 2.8   | <0.9 | <1.6 | 1.4    | 3.4   | 5.7   | 7.6   | 18.5   | 73.6   |
| HEXACHLOROBUTADIENE         | 136        | 100.0% | 136 | 1.5   | <1.3 | <1.8 | <2.1   | <2.5  | <6.8  | <7.2  | <8.1   | <8.2   |
| HEXANAL                     | 78         | 63.4%  | 123 | 6.8   | <2.5 | <3.9 | <4.6   | 7.8   | 12.0  | 14.7  | 26.2   | 235.1  |
| m & p-XYLENES               | 53         | 18.0%  | 294 | 10.8  | <1.5 | 4.1  | 6.9    | 12.2  | 22.2  | 28.5  | 67.6   | 260.8  |
| METHYL TERTIARY-BUTYL ETHER | 198        | 76.4%  | 259 | 3.3   | <1.0 | <1.5 | <1.7   | <6.4  | 11.5  | 16.1  | 30.8   | 34.0   |
| METHYLENE CHLORIDE          | 94         | 31.5%  | 298 | 21.2  | <1.1 | <1.7 | 2.9    | 5.0   | 10.0  | 16.0  | 1155.6 | 1496.9 |
| NAPHTHALENE                 | 254        | 85.8%  | 296 | 6.6   | <1.4 | <2.2 | <2.5   | <5.2  | 5.1   | 20.9  | 98.0   | 410.0  |
| n-DECANE                    | 58         | 19.5%  | 298 | 7.4   | <0.7 | 3.0  | 4.6    | 8.4   | 17.5  | 22.4  | 48.6   | 54.8   |
| n-HEPTANAL                  | 36         | 92.3%  | 39  | 1.7   | <1.2 | <1.3 | <1.5   | <1.6  | <3.6  | 3.1   | 34.9   | 34.9   |
| n-HEXANE                    | 26         | 16.0%  | 162 | 6.3   | <.9  | 1.6  | 3.1    | 6.4   | 10.2  | 15.2  | 120.0  | 130.0  |
| NONANAL                     | 146        | 90.1%  | 162 | 6.8   | <1.6 | <5.1 | <7.8   | <8.6  | <16.8 | 30.2  | 88.9   | 106.3  |
| NONANE                      | 101        | 39.0%  | 259 | 3.7   | <0.5 | <1.0 | 1.7    | 3.6   | 7.8   | 12.4  | 45.2   | 53.8   |
| n-UNDECANE                  | 25         | 9.7%   | 259 | 12.6  | <1.1 | 5.1  | 8.9    | 16.4  | 22.6  | 27.4  | 68.7   | 169.6  |
| OCTANE                      | 155        | 52.0%  | 298 | 5.5   | <0.4 | <0.8 | <2.5   | 2.0   | 4.5   | 8.6   | 47.9   | 921.7  |
| o-XYLENE                    | 81         | 27.6%  | 294 | 3.8   | <0.7 | <2.4 | 2.4    | 4.4   | 7.9   | 11.2  | 20.1   | 90.5   |
| PENTANAL                    | 111        | 90.2%  | 123 | 3.0   | <2.4 | <3.7 | <4.1   | <4.6  | <7.3  | 7.0   | 20.0   | 57.3   |
| STYRENE                     | 251        | 85.4%  | 294 | 1.5   | <0.6 | <1.6 | <1.8   | <2.3  | 1.9   | 4.3   | 15.0   | 40.0   |
| TETRACHLOROETHENE           | 103        | 34.6%  | 298 | 6.0   | <0.9 | <1.9 | 3.0    | 5.9   | 15.9  | 25.4  | 55.6   | 65.7   |
| TOLUENE                     | 0          | 0.0%   | 294 | 25.1  | 3.5  | 10.7 | 15.7   | 25.9  | 43.0  | 70.8  | 348.9  | 390.3  |
| TRANS-1,3-DICHLOROPROPENE   | 136        | 100.0% | 136 | 0.5   | <0.5 | <0.8 | <1.1   | <1.2  | <1.3  | <1.3  | <1.8   | <2.0   |
| TRICHLOROETHENE             | 216        | 72.5%  | 298 | 2.6   | <0.6 | <1.2 | <1.4   | 1.2   | 4.2   | 6.5   | 57.0   | 88.5   |
| TRICHLOROFLUOROMETHANE      | 107        | 35.9%  | 298 | 19.4  | <1.7 | <3.7 | 3.9    | 6.7   | 18.1  | 54.0  | 860.6  | 1015.3 |
| TRICHLOROTRIFLUOROETHANE    | 217        | 83.8%  | 259 | 2.0   | <1.1 | <1.7 | <1.9   | <3.0  | 3.5   | 9.4   | 19.7   | 30.9   |
| VINYL CHLORIDE              | 257        | 99.2%  | 259 | 0.5   | <0.6 | <0.8 | <0.9   | <1.0  | <1.9  | <2.2  | <2.6   | 7.5    |

(Continued)

**Table C2. EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® canister method -- Continued**All results are micrograms per cubic meter (mcg/m<sup>3</sup>).

| Compound               | OUTDOOR AIR |        |     |       |      |      |        |      |      |       |       |       |
|------------------------|-------------|--------|-----|-------|------|------|--------|------|------|-------|-------|-------|
|                        | ND          | ND(%)  | N   | Mean* | Min  | 25th | Median | 75th | 90th | 95th  | 99th  | Max   |
| 1,1,1-TRICHLOROETHANE  | 40          | 40.0%  | 100 | 1.3   | <0.4 | <0.6 | 0.8    | 1.7  | 2.6  | 3.8   | 8.4   | 8.7   |
| 1,1,2-TRICHLOROETHANE  | 46          | 100.0% | 46  | 0.6   | <0.6 | <1.0 | <1.2   | <1.4 | <1.6 | <1.6  | <1.8  | <1.8  |
| 1,1-DICHLOROETHANE     | 46          | 100.0% | 46  | 0.2   | <0.4 | <0.4 | <0.4   | <0.6 | <0.6 | <0.8  | <0.8  | <0.8  |
| 1,1-DICHLOROETHENE     | 46          | 100.0% | 46  | 0.5   | <0.8 | <1.0 | <1.0   | <1.2 | <1.4 | <1.4  | <1.6  | <1.6  |
| 1,2,4-TRICHLOROBENZENE | 46          | 100.0% | 46  | 1.1   | <0.6 | <0.8 | <1.0   | <1.2 | <6.4 | <6.6  | <7.8  | <7.8  |
| 1,2,4-TRIMETHYLBENZENE | 30          | 30.0%  | 100 | 2.6   | <0.4 | <1.6 | 1.8    | 3.1  | 5.8  | 7.1   | 19.1  | 24.2  |
| 1,2-DIBROMOETHANE      | 87          | 100.0% | 87  | 0.6   | <0.8 | <1.2 | <1.2   | <1.4 | <1.6 | <1.6  | <2.0  | <2.0  |
| 1,2-DICHLOROBENZENE    | 86          | 98.9%  | 87  | 0.4   | <0.6 | <0.8 | <1.0   | <1.0 | <1.2 | <1.2  | 1.1   | 1.1   |
| 1,2-DICHLOROETHANE     | 86          | 98.9%  | 87  | 0.3   | <0.4 | <0.6 | <0.6   | <0.6 | <0.8 | <1.0  | 0.8   | 0.8   |
| 1,2-DICHLOROPROPANE    | 46          | 100.0% | 46  | 0.6   | <0.6 | <1.2 | <1.4   | <1.6 | <1.6 | <1.8  | <1.8  | <1.8  |
| 1,3,5-TRIMETHYLBENZENE | 69          | 79.3%  | 87  | 1.2   | <0.8 | <1.2 | <1.4   | <2.4 | 2.7  | 3.3   | 8.9   | 8.9   |
| 1,3-BUTADIENE          | 13          | 100.0% | 13  | 1.5   | <2.2 | <2.4 | <2.6   | <2.8 | <3.4 | <7.6  | <7.6  | <7.6  |
| 1,3-DICHLOROBENZENE    | 46          | 100.0% | 46  | 0.5   | <0.6 | <0.8 | <0.8   | <1.0 | <2.2 | <2.4  | <2.8  | <2.8  |
| 1,4-DICHLOROBENZENE    | 88          | 88.0%  | 100 | 0.7   | <0.6 | <0.8 | <0.8   | <1.4 | 1.2  | 1.7   | 5.4   | 6.1   |
| 1-BUTANOL              | 41          | 100.0% | 41  | 2.0   | <2.4 | <3.4 | <4.0   | <4.4 | <4.8 | <5.2  | <6.0  | <6.0  |
| 2-BUTANONE (MEK)       | 5           | 5.7%   | 87  | 5.2   | <1.2 | 2.2  | 3.7    | 5.7  | 11.3 | 14.8  | 43.1  | 43.1  |
| 2-BUTOXYETHANOL        | 41          | 100.0% | 41  | 3.9   | <4.6 | <7.0 | <8.0   | <8.6 | <9.6 | <10.4 | <11.8 | <11.8 |
| 2-ETHYL-1-HEXANOL      | 53          | 98.1%  | 54  | 3.2   | <1.2 | <4.6 | <7.2   | <8.4 | <9.6 | <10.8 | 5.9   | 5.9   |
| 2-METHYL-1-PROPANOL    | 13          | 100.0% | 13  | 0.6   | <0.8 | <1.0 | <1.0   | <1.2 | <1.4 | <3.0  | <3.0  | <3.0  |
| 2-PROPANOL             | 4           | 30.8%  | 13  | 6.4   | <3.0 | <4.2 | 4.7    | 6.6  | 16.5 | 23.5  | 23.5  | 23.5  |
| 3-METHYL PENTANE       | 55          | 63.2%  | 87  | 1.8   | <1.0 | <1.4 | <1.6   | 2.0  | 4.4  | 6.6   | 10.5  | 10.5  |
| 4-ETHYLTOLUENE         | 75          | 86.2%  | 87  | 1.2   | <1.0 | <1.4 | <1.6   | <2.0 | 3.0  | 3.3   | 8.0   | 8.0   |
| 4-METHYL-2-PENTANONE   | 61          | 70.1%  | 87  | 1.3   | <0.8 | <1.0 | <1.2   | 0.9  | 1.9  | 4.3   | 21.0  | 21.0  |
| ACETONE                | 1           | 1.1%   | 87  | 26.5  | <1.8 | 15.4 | 22.5   | 31.7 | 43.7 | 56.0  | 104.2 | 104.2 |
| a-PINENE               | 92          | 92.0%  | 100 | 1.0   | <0.6 | <1.0 | <1.2   | <1.4 | <6.2 | 3.7   | 6.8   | 8.1   |
| BENZENE                | 22          | 22.0%  | 100 | 3.2   | <1.2 | 1.2  | 2.7    | 3.7  | 6.6  | 9.6   | 12.6  | 13.0  |
| BENZYL CHLORIDE        | 46          | 100.0% | 46  | 1.2   | <1.0 | <1.2 | <1.4   | <1.6 | <6.4 | <6.6  | <7.8  | <7.8  |
| BROMOMETHANE           | 82          | 94.3%  | 87  | 0.6   | <0.6 | <0.8 | <1.0   | <1.0 | <1.6 | 1.0   | 4.5   | 4.5   |
| BUTYL ACETATE          | 94          | 94.0%  | 100 | 1.4   | <0.8 | <1.4 | <1.6   | <1.8 | <5.8 | 3.3   | 18.6  | 32.7  |
| CARBON DISULFIDE       | 39          | 44.8%  | 87  | 2.1   | <0.6 | <0.8 | 0.9    | 2.2  | 3.7  | 8.3   | 22.0  | 22.0  |
| CARBON TETRACHLORIDE   | 69          | 79.3%  | 87  | 0.5   | <0.6 | <0.8 | <1.0   | <1.0 | 0.7  | 0.7   | 1.5   | 1.5   |
| CHLOROBENZENE          | 85          | 97.7%  | 87  | 0.4   | <0.4 | <0.6 | <0.8   | <0.8 | <0.8 | <1.0  | 1.1   | 1.1   |
| CHLOROETHANE           | 84          | 96.6%  | 87  | 0.5   | <0.6 | <0.8 | <0.9   | <1.0 | <1.2 | <1.2  | 3.5   | 3.5   |
| CHLOROFORM             | 77          | 88.5%  | 87  | 0.5   | <0.2 | <0.4 | <0.4   | <0.6 | 0.6  | 0.7   | 13.8  | 13.8  |
| CHLORMETHANE           | 0           | 0.0%   | 87  | 2.6   | 0.9  | 2.0  | 2.3    | 3.0  | 3.7  | 4.0   | 10.6  | 10.6  |
| CIS-1,2-DICHLOROETHENE | 45          | 97.8%  | 46  | 0.5   | <0.6 | <0.8 | <1.0   | <1.2 | <1.8 | <1.8  | 1.1   | 1.1   |

(Continued)

**Table C2. EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMA® canister method -- Continued**All results are micrograms per cubic meter (mcg/m<sup>3</sup>).

| Compound                    | OUTDOOR AIR |        |     |       |      |      |        |       |      |      |       |       |
|-----------------------------|-------------|--------|-----|-------|------|------|--------|-------|------|------|-------|-------|
|                             | ND          | ND(%)  | N   | Mean* | Min  | 25th | Median | 75th  | 90th | 95th | 99th  | Max   |
| CIS-1,3-DICHLOROPROPENE     | 46          | 100.0% | 46  | 0.9   | <1.4 | <1.6 | <1.8   | <2.0  | <2.2 | <2.4 | <2.6  | <2.6  |
| DICHLORODIFLUOROMETHANE     | 7           | 8.0%   | 87  | 7.3   | <4.4 | 3.8  | 4.4    | 5.8   | 8.1  | 12.2 | 183.7 | 183.7 |
| DICHLOROTETRAFLUOROETHANE   | 46          | 100.0% | 46  | 1.6   | <1.6 | <2.2 | <2.4   | <3.0  | <6.4 | <6.6 | <7.8  | <7.8  |
| DIMETHYL DISULFIDE          | 74          | 85.1%  | 87  | 1.7   | <1.4 | <2.0 | <2.4   | <2.8  | 2.4  | 4.5  | 16.4  | 16.4  |
| d-LIMONENE                  | 73          | 73.0%  | 100 | 1.5   | <0.8 | <1.0 | <1.4   | 2.0   | 3.6  | 4.1  | 9.8   | 12.5  |
| DODECANE                    | 51          | 51.0%  | 100 | 4.6   | <2.0 | <2.6 | <4.0   | 4.2   | 10.4 | 14.1 | 51.0  | 52.3  |
| ETHANOL                     | 0           | 0.0%   | 13  | 32.0  | 3.8  | 13.0 | 24.5   | 47.0  | 57.0 | 82.5 | 82.5  | 82.5  |
| ETHYL ACETATE               | 89          | 89.0%  | 100 | 0.7   | <0.6 | <0.8 | <1.0   | <1.2  | 1.5  | 1.9  | 3.7   | 3.9   |
| ETHYLBENZENE                | 59          | 59.0%  | 100 | 1.4   | <0.8 | <1.4 | <1.8   | 1.6   | 3.5  | 4.3  | 7.6   | 7.8   |
| HEXACHLOROBUTADIENE         | 46          | 100.0% | 46  | 1.4   | <1.4 | <1.8 | <2.0   | <2.6  | <6.4 | <6.6 | <7.8  | <7.8  |
| HEXANAL                     | 30          | 73.2%  | 41  | 3.1   | <2.4 | <3.8 | <4.2   | 2.7   | 3.3  | 3.8  | 36.0  | 36.0  |
| m & p-XYLENES               | 26          | 26.0%  | 100 | 5.6   | <1.4 | <3.6 | 4.4    | 7.3   | 12.8 | 16.1 | 24.8  | 26.8  |
| METHYL TERTIARY-BUTYL ETHER | 67          | 77.0%  | 87  | 2.7   | <1.0 | <1.4 | <1.8   | <5.4  | 6.2  | 13.3 | 36.0  | 36.0  |
| METHYLENE CHLORIDE          | 43          | 43.0%  | 100 | 3.7   | <1.0 | <1.8 | 1.3    | 3.0   | 6.1  | 10.3 | 63.0  | 78.5  |
| NAPHTHALENE                 | 86          | 86.0%  | 100 | 10.6  | <1.4 | <2.0 | <2.4   | <4.8  | 4.9  | 15.1 | 379.8 | 670.0 |
| n-DECANE                    | 35          | 35.0%  | 100 | 3.7   | <0.6 | <2.0 | 2.4    | 4.2   | 7.6  | 11.4 | 32.4  | 37.3  |
| n-HEPTANAL                  | 10          | 76.9%  | 13  | 3.0   | <1.2 | <1.5 | <1.8   | <2.2  | 2.2  | 26.8 | 26.8  | 26.8  |
| n-HEXANE                    | 16          | 29.6%  | 54  | 2.5   | <.8  | <1.2 | 1.4    | 2.7   | 6.4  | 11.4 | 15.3  | 15.3  |
| NONANAL                     | 41          | 75.9%  | 54  | 8.6   | <1.6 | <6.0 | <7.8   | <10.8 | 22.7 | 37.6 | 57.0  | 57.0  |
| NONANE                      | 49          | 56.3%  | 87  | 1.3   | <0.4 | <0.8 | <1.0   | 1.7   | 2.8  | 4.0  | 15.3  | 15.3  |
| n-UNDECANE                  | 13          | 14.9%  | 87  | 7.0   | <1.0 | 2.6  | 3.9    | 7.8   | 14.8 | 19.7 | 94.8  | 94.8  |
| OCTANE                      | 73          | 73.0%  | 100 | 0.9   | <0.4 | <0.6 | <0.8   | 1.0   | 1.6  | 1.9  | 11.9  | 17.5  |
| o-XYLENE                    | 36          | 36.0%  | 100 | 2.0   | <0.6 | <1.4 | 1.4    | 2.6   | 4.6  | 6.0  | 9.6   | 11.1  |
| PENTANAL                    | 37          | 90.2%  | 41  | 3.5   | <2.4 | <3.4 | <4.0   | <4.4  | <6.0 | 7.0  | 52.7  | 52.7  |
| STYRENE                     | 83          | 83.0%  | 100 | 1.7   | <0.6 | <1.4 | <1.6   | <2.0  | 1.3  | 3.6  | 34.1  | 58.0  |
| TETRACHLOROETHENE           | 51          | 51.0%  | 100 | 2.7   | <0.8 | <1.4 | <2.0   | 3.0   | 6.5  | 10.4 | 24.8  | 27.6  |
| TOLUENE                     | 0           | 0.0%   | 100 | 15.4  | 2.1  | 5.9  | 9.6    | 16.3  | 33.7 | 49.2 | 86.5  | 93.1  |
| TRANS-1,3-DICHLOROPROPENE   | 46          | 100.0% | 46  | 0.5   | <0.6 | <0.8 | <1.0   | <1.2  | <1.4 | <1.4 | <1.4  | <1.4  |
| TRICHLOROETHENE             | 81          | 81.0%  | 100 | 1.0   | <0.6 | <1.0 | <1.5   | <1.6  | 1.3  | 2.6  | 11.2  | 13.5  |
| TRICHLOROFLUOROMETHANE      | 41          | 41.0%  | 100 | 3.6   | <2.0 | <2.8 | 1.7    | 2.8   | 4.3  | 5.6  | 71.1  | 132.5 |
| TRICHLOROTRIFLUOROETHANE    | 75          | 86.2%  | 87  | 1.0   | <1.2 | <1.6 | <1.8   | <2.0  | 1.6  | 1.8  | 5.4   | 5.4   |
| VINYL CHLORIDE              | 87          | 100.0% | 87  | 0.5   | <0.6 | <0.8 | <1.0   | <1.0  | <1.8 | <2.0 | <2.6  | <2.6  |

ND = Number of non-detects

ND (%) = Percentage of total number in sample that are non-detect

N = Total number of samples

\* Non-detects were estimated at 1/2 the appropriate detection limit or quantification limit to calculate the mean

Min; Max = minimum and maximum value detected