

August 17, 2020

Megan Kuczka, DER Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203

Re: **Periodic Review Report – April 2020 Revised; DEC Site #C915320**
166 Chandler Street Site, 166 Chandler Street, Buffalo, New York

Dear Ms. Kuczka:

In accordance with the Site Management Plan (NYSDEC Site Number: C915320), Section 5.2 Periodic Review Report, and NYSDEC's March 6, 2020 letter to Mr. Rocco Termini regarding the preparation and submittal of a Site Management Periodic Review Report and IC/EC Certification, please find attached a Periodic Review Report that includes the appropriate certifications and the 2019-2020 Routine Progress Report.

If you have comments or questions regarding the contents of these documents, please contact me directly.

Very truly yours,
HAZARD EVALUATIONS, INC.



C. Mark Hanna, CHMM
President

Attachments

cc: R. Termini

e1916\CY2019-2020\166 Chandler St. Site – BCP #C915320 – PRR 2019-20 – 081720 Final RV

Periodic Review Report

166 Chandler Street Site
166 Chandler Street
Buffalo, New York 14203

NYSDEC Site Number: C915320

Prepared by:
Hazard Evaluations, Inc.
3636 North Buffalo Road
Orchard Park, New York 14127
(716) 667-3130

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1.0 SITE OVERVIEW

1.1 Site Summary

The 166 Chandler Street Site (“subject site”) is an approximate 0.48 acre property located at 166 Chandler Street in the City of Buffalo, Erie County, New York. Site location and boundaries are provided in Figure 1, located in Appendix A. The Site consists of an approximate 58,000-square foot four-story building which covers the entirety of the parcel. The Site is zoned D-C Flex Commercial, which permits Residential, Retail & Service, and Light Industrial uses. The neighborhood surrounding the Site primarily includes light industrial, commercial and residential properties.

1.2 Site Remedial History

The Site building was originally constructed in 1907 as a dairy machine manufacturer with additions to the building in 1909, 1919, 1927, and 1931. Former uses at the subject site also included a grocery, Linde Air Products, Sponge Air Seat Co., and Barcalo Manufacturing, a furniture manufacturer. Several fires occurred during the 1980s and 1990s which resulted in demolition of the western portion of the building. The building was vacant for over 20 years.

Brownfield Cleanup Agreement (BCA Index No. C915320-07-17) was executed on November 8, 2017 for the Site, identified as New York State Department of Environmental Conservation (NYSDEC) Site # C915320, under the Brownfield Cleanup Program (BCP). Hazard Evaluations Inc. (HEI), in association with Wittman GeoSciences, PLLC (WGS) and Schenne & Associates (S&A), completed remedial investigation (RI) activities, as well as interim remedial measures (IRM) activities, in accordance with the NYSDEC approved RI/IRM Work Plan, dated January 2018. A series of IRM work tasks were performed at the Site in order to remediate the on-site concerns, described as follows:

- The entire western portion of the Site was excavated to the property limits. The area was occupied by a former building and foundation. Former foundation walls were exposed and located along the northern, western, and southern property limits, as well as various interior foundation walls. The bottom of the excavation extended to a solid concrete floor or continued to the native underlying silty clay soil, generally ranging in depth from five to eight feet below grade. The eastern excavation limit was defined by the western wall of the original portion of the current Site building. A total of 2,157 cubic yards (cy) or 3,235 tons of soil was removed from the western portion of the Site and disposed off-site at the Town of Tonawanda landfill.

The excavations were completed to and beyond property limits to the north, south, and west. The eastern limit extended to the western wall of the original portion of the current Site building, exposing the building foundation along the entire length of the excavation. Therefore, no on-site sidewall confirmatory soil samples were necessary. Nine bottom confirmatory samples were collected from beneath the concrete floor, or from the underlying native silty clay. No VOCs, SVOCs, metals, PCBs, herbicides or pesticides were detected in the confirmation samples at concentrations above RRUSCO.

- An old, damaged underground storage tank (UST) was uncovered in the southwestern corner of the vacant lot. The UST was severely corroded, and was estimated to be approximately 300 gallons in size. The tank contained a limited amount of water, estimated at approximately 20 gallons. Also, a limited amount of standing water existed around the exterior of the tank. These minor liquids were pumped and generated approximately one 55-gallon drum, which was disposed off-site by ESG. The cleaned tank remnants were taken off-site by ESG for recycling.

No visual or olfactory evidence of impact was observed in the soil profile in the vicinity of the UST. However, due to the presence of the historical fill, additional excavation extended beyond the limits of the UST. Confirmatory soil samples were collected and the eastern and western walls were defined by former building foundations that were fully exposed. No contaminant parameters were detected at concentrations exceeding their respective UUSCO.

- Several SVOCs were detected in the soil sample from MW102 (0-4') at concentrations exceeding RRUSCO, including benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene. In order to address the presence of SVOCs impacts, the concrete floor was removed and an approximate 11-foot by 11-foot excavation was completed in the area of MW102; however, the western and southern limits of the excavation were limited due to concrete foundations. Approximately 18 tons of soil was removed from the area of MW102, and disposed off-site at the Town of Tonawanda landfill. Four sidewall and bottom samples were collected from the excavation area. The analytical testing results did not identify SVOCs at concentrations exceeding UUSCO in the confirmatory samples.

A Certificate of Completion was issued on December 20, 2018.

1.3 Institutional Controls

Since remaining contamination exists at the Site, Institutional Controls (ICs) are required to protect human health and the environment. ICs at the Site include the following:

- The property may be used for restricted residential, commercial, and/or industrial uses;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- A provision for evaluation of the potential for soil vapor intrusion in the existing building and for any new buildings developed on the Site, including provisions for implementing actions recommended to address exposures related to soil vapor intrusion;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP;

- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and
- Vegetable gardens and farming on the Site are prohibited.

1.4 Monitoring and Sampling Requirements

The SMP describes the measures for evaluating the overall performance and effectiveness of the remedy. The Monitoring Plan includes the following:

- Site-wide inspections will be performed at a minimum of once per year, as noted in SMP.
- Indoor air sampling will be collected from the Site’s indoor air for at least two consecutive heating seasons to evaluate the potential for soil vapor intrusion.

2.0 SITE INSPECTION AND MONITORING RESULTS

2.1 Site Inspections

HEI completed the initial annual Site-wide inspection on April 16, 2019. Construction activities were active during the site inspection including welding, pipe cutting, and pipe fitting. A copy of the Site-wide inspection is included in Appendix B. Additionally, a completed Institutional Controls Certification Form is included in Appendix C. The following observations were noted during the inspection:

- o The building was developed into various tenant spaces, including a brewery occupied by Thin Man Brewery, a restaurant occupied by Tappo Pizza, and a fitness gym occupied by F45 Training located on the second floor.
- o The Site building was under interior development, which included activities such as welding within the vicinity of the IA-1 sample location and pipe cutting, pipe fitting, and pipe installation of new plumbing utilities within the vicinity of the IA-2 sample location.
- o PVC and steel cutting odors, as well as chemical storage and use were noted throughout the western “new” portion of the building during the inspection.
- o Elevated organic vapor monitoring (OVM) readings of the ambient air within the building ranged from 0.0 parts per million (ppm) to 10 ppm, with the highest reading in the vicinity of the IA-1 sample location.

HEI completed the second Site-wide inspection on April 20, 2020. The following observations were noted during the inspection:

- o OVM readings of the ambient air within the building and outside remained at 0.0 ppm.

- The western portion of the building had active brewing operations; however, the eastern portion of the building was unoccupied at the time of the inspection.

2.2 Indoor Air Sampling Results

Indoor air sampling was required to be completed for two consecutive heating seasons to evaluate the potential for soil vapor intrusion. Four indoor air samples and one outdoor air sample were collected over an 8-hour period on April 16, 2019 and on April 20, 2020. Sampling locations from the April 2019 and April 2020 sampling events are depicted in Figure 2.

Analytical results are summarized on Tables 1, 2, and 3 located in Appendix D and the laboratory reports are included in Appendix E. As shown on Table 1, up to 25 VOCs were detected within the four indoor air samples and one outdoor air sample collected on April 16, 2019. Most compounds were detected at concentrations below their respective commercial indoor air background levels as noted in New York State Department of Health (NYSDOH) guidance¹. However, the following results were noted:

- Acetone and methyl ethyl ketone were detected in each of the four indoor air samples collected at concentrations above the identified commercial background level. The concentrations ranged from 278 ug/m³ to 565 ug/m³ and 46.3 ug/m³ to 118 ug/m³, respectively. Currently, there are no NYSDOH Air Guidance Values for acetone or methyl ethyl ketone.
- In addition to acetone and methyl ethyl ketone, indoor air sample IA-3 was noted to also include ethyl acetate, ethylbenzene, m&p-xylene, and o-xylene at concentrations above the identified commercial background level. Currently, there are no NYSDOH Air Guidance Values for these compounds.
- In addition to acetone and methyl ethyl ketone, indoor air sample IA-4 was noted to also include ethylbenzene and m&p-xylene at concentrations above the identified commercial background level. Currently, there are no NYSDOH Air Guidance Values for these compounds.
- Trichloroethene (TCE) was detected in each of the four indoor air samples collected. However, the concentrations ranged from 0.570 ug/m³ to 1.27 ug/m³, which is below the NYSDOH guideline of 2 ug/m³. Additionally, tetrachloroethene was also detected at each of the four indoor air samples, ranging in concentration from 0.149 ug/m³ to 0.17 ug/m³, which is below NYSDOH guideline of 30 ug/m³.
- TCE was also detected in the outdoor air sample collected. However, the concentration of 0.134 ug/m³ is below the NYSDOH ambient air guidance of 1.3 ug/m³.

¹ Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, prepared by New York State Department of Health

As shown on Table 2, up to 16 VOCs were detected within the four indoor air samples and one outdoor air sample collected on April 20, 2020. Most compounds were detected at concentrations below their respective commercial indoor air background levels as noted in New York State Department of Health (NYSDOH) guidance². However, the following results were noted:

- Ethanol, ethyl acetate, and methyl ethyl ketone were detected in each of the four indoor air samples collected at concentrations above the identified commercial background level. The concentrations ranged from 923 ug/m³ to 6,200 ug/m³ for ethanol, from 13.9 ug/m³ to 32.8 ug/m³ for ethyl acetate, and from 12.7 ug/m³ to 37.2 ug/m³ for methyl ethyl ketone. Currently, there are no NYSDOH Air Guidance Values for these analytes.
- TCE was detected in each of the four indoor air samples collected. However, the concentrations ranged from 0.204 ug/m³ to 0.451 ug/m³, which is below the NYSDOH guideline of 2 ug/m³. TCE was not detected in the outdoor air sample collected.

2.3 Data Usability Summary

The analytical data from the indoor air samples were submitted for independent review. Vali-Data of WNY, LLC, located in West Falls, New York, completed the data usability summary report (DUSR). The DUSR is included in Appendix F and was prepared using guidance from the USEPA Region 2 Validation Standard Operating Procedures, USEPA National Functional Guidelines for Data Review, and professional judgement. Indoor air samples were collected as described above and were evaluated as described below:

Alpha Lab Sample L1915616

The results for four indoor air samples, one blind duplicate, and one outdoor air sample were processed for VOCs via EPA Method TO-15. In general, the samples were noted to be either usable or with minor qualifications. However, the following items were noted:

- VOCs data are acceptable for use except where qualified in initial calibration;
- All results were recorded to the reporting limits; and
- All samples except OA-1 (041619) were diluted to high target analyte concentrations.

Alpha Lab Sample L2016426

The results for four indoor air samples, one blind duplicate, and one outdoor air sample were processed for VOCs via EPA Method TO-15. In general, the samples were noted to be either usable or with minor qualifications. However, the following items were noted:

- VOCs data are acceptable for use except where qualified in holding times, laboratory control samples, and continuing calibration;

² Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, prepared by New York State Department of Health

- All results were recorded to the reporting limits;
- Samples IA-1(042020), IA-2(042020), IA-3(042020), and IA-4(042020), were diluted to high target analyte concentrations in TO15-LL. IA-3(042020)DUPLICATE was not diluted due to the concentration of target analytes falling within calibration range.

2.4 Electronic Data Deliverables

As per NYSDEC directives, all aforementioned data have been submitted electronically to the NYSDEC EQulS system. Confirmation emails of successful data submission have been received, and are provided in Appendix H.

3.0 CORRECTIVE MEASURES WORK PLAN

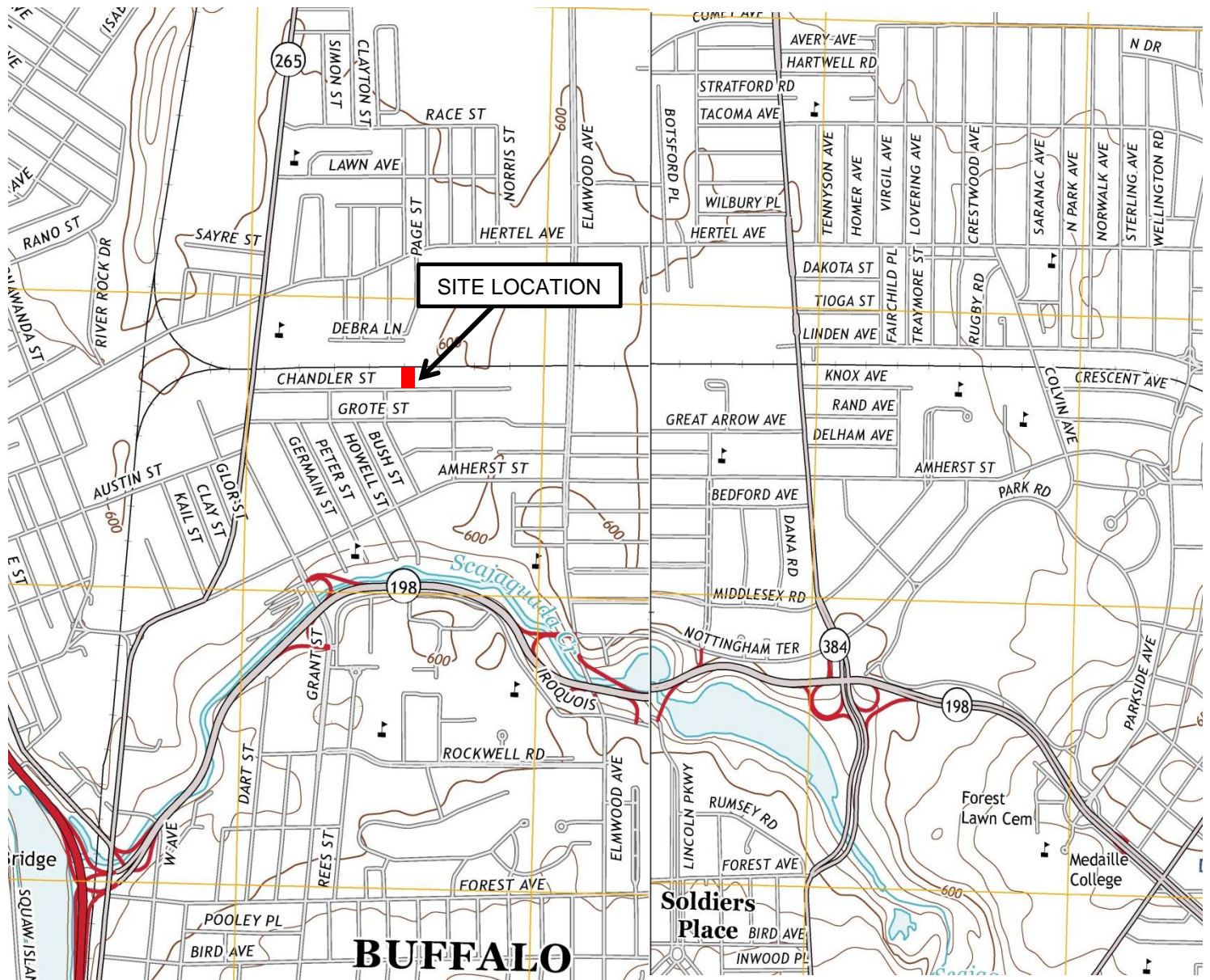
Several VOCs were detected in the four indoor air sample locations at concentrations exceeding the identified commercial background level; however, no compounds were detected at concentrations exceeding NYSDOH Air Guidance Values. No changes to the SMP are recommended at this time.

4.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

All components of the Site Management Plan have been met during the reporting period, including Institutional Controls and Monitoring and Sampling Plan. Based on activities conducted at the Site during the reporting period, the Site remedy continues to be protective of public health and the environment. The requirements for Site closure have not yet been met, and no changes to the frequency of PRR submittals are recommended at this time.

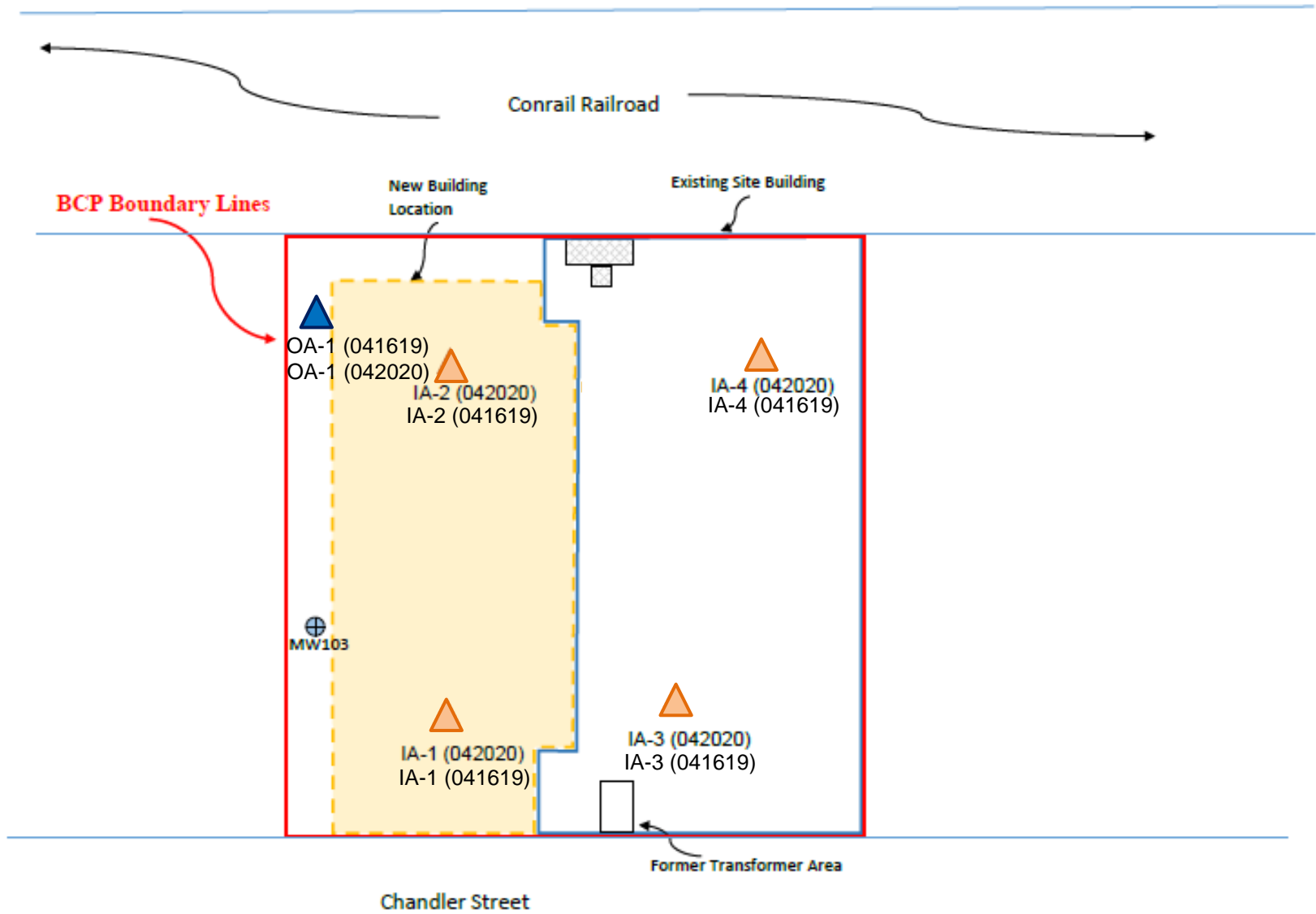
APPENDIX A

FIGURES



THIS DRAWING IS FOR ILLUSTRATIVE AND INFORMATIONAL PURPOSES ONLY
AND WAS ADAPTED FROM USGS, BUFFALO NE & NW, NEW YORK 2013 QUADRANGLE

HAZARD EVALUATIONS, INC. <i>Phase I/II Audits – Site Investigations – Facility Inspections</i>		
SITE LOCATION MAP 166 CHANDLER STREET BUFFALO, NEW YORK		
166 CHANDLER HOLDINGS, LLC BUFFALO, NEW YORK		
DRAWN BY: MB	SCALE: NOT TO SCALE	PROJECT: e1916
CHECKED BY: CMH	DATE: 05/2020	FIGURE NO: 1



KEY	
	Monitoring well location
	Indoor air sample location
	Outdoor air sample location

HAZARD EVALUATIONS, INC.		
<i>Phase I/II Audits – Site Investigations – Facility Inspections</i>		
INDOOR AIR SAMPLING LOCATIONS		
166 CHANDLER STREET BUFFALO, NEW YORK		
166 CHANDLER HOLDINGS, LLC		
BUFFALO, NEW YORK		
DRAWN BY: MB	SCALE: NOT TO SCALE	PROJECT: e1916
CHECKED BY: CMH	DATE: 05/2020	FIGURE NO: 2

APPENDIX B
SITE-WIDE INSPECTIONS

Site-Wide Inspection Form

Site: 166 Chandler Street Buffalo, NY

Date: 4/16/2019

Inspector: Eric Betzold



Weather: 45°F Cloudy

General site conditions at the time of the inspection: Construction activities including welding, pipe cutting, and pipe fitting was observed in the western portion of the building. The eastern portion of the building was an active bar/restaurant.

Are site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection? Yes.

Do the implemented institutional controls continue to be protective of human health and the environment? Yes.

Is the site currently in compliance with requirements of the SMP and the Environmental Easement? Yes.

Are site records complete and up-to-date? Yes.

Deficiencies Observed / Corrective Actions Required: No.

Implemented Institutional Controls:

1. The property may only be used for restricted residential, commercial, and/or industrial use;
2. The use of groundwater is prohibited at the property;
3. Vegetable gardens and farming are prohibited at the property;
4. A provision for evaluation of the potential for soil vapor intrusion in the existing building and for any new buildings developed on the property, including provisions for implementing actions recommended to address exposures related to soil vapor intrusion;
5. Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
6. All activities that will disturb remaining contaminated material must be conducted in accordance with the SMP; and
7. Access to the site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

Site-Wide Inspection Form

Site: 166 Chandler Street Buffalo, NY

Date: 4/20/2020

Inspector: Eric Betzold



Weather: 45°F Mostly Sunny

General site conditions at the time of the inspection: Active brewing operations in the western portion of building. The eastern portion of the building is temporarily vacant due to the coronavirus pandemic.

Are site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection? Yes.

Do the implemented institutional controls continue to be protective of human health and the environment? Yes.

Is the site currently in compliance with requirements of the SMP and the Environmental Easement? Yes.

Are site records complete and up-to-date? Yes.

Deficiencies Observed / Corrective Actions Required: No.

Implemented Institutional Controls:

1. The property may only be used for restricted residential, commercial, and/or industrial use;
2. The use of groundwater is prohibited at the property;
3. Vegetable gardens and farming are prohibited at the property;
4. A provision for evaluation of the potential for soil vapor intrusion in the existing building and for any new buildings developed on the property, including provisions for implementing actions recommended to address exposures related to soil vapor intrusion;
5. Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
6. All activities that will disturb remaining contaminated material must be conducted in accordance with the SMP; and
7. Access to the site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

APPENDIX C

INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	C915320		
Site Name 166 Chandler Street			
Site Address: 166 Chandler Street		Zip Code: 14207	
City/Town: Buffalo			
County: Erie			
Site Acreage: 0.490			
Reporting Period: December 20, 2018 to April 20, 2020			
		YES	NO
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Box 2A

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

YES NO

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915320

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

77.84-4-5

166 Chandler Holdings, LLC

Site Management Plan
Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
IC/EC Plan

Indoor air sampling

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

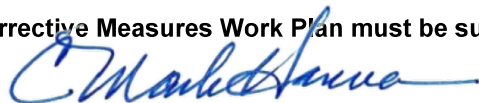
(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.



Signature of Owner, Remedial Party or Designated Representative

5/18/2020

Date

**IC CERTIFICATIONS
SITE NO. C915320**

Box 6

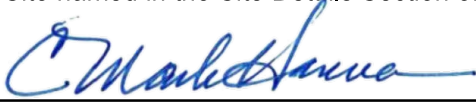
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I C. Mark Hanna at 3636 N. Buffalo Road, Orchard Park NY,
print name print business address

am certifying as designated representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



5/18/2020

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

APPENDIX D

TABLES

Table 1
Soil Vapor Intrusion Analytical Testing Results
166 Chandler Street, Buffalo, NY
April 2019

LOCATION	Guidance Values- Indoor Air								Table C2 Outdoor Air Guidance Values
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	IA-1 (041619) Indoor Air	IA-2 (041619) Indoor Air	IA-3 (041619) Indoor Air	IA-3 (041619) Duplicate Indoor Air	IA-4 (041619) Indoor Air	OA-1 (041619) Outdoor Air	
			4/16/2019	4/16/2019	4/16/2019	4/16/2019	4/16/2019	4/16/2019	
SAMPLING DATE	LAB SAMPLE ID	L1915616-01	L1915616-02	L1915616-03	L1915616-04	L1915616-05	L1915616-06		
1,1,1-Trichloroethane	20.6		ND	0.169	0.131	0.175	0.338	ND	2.6
1,2,4-Trimethylbenzene	9.5		ND	1.57	ND	ND	1.64	ND	5.8
Acetone	98.9		565	461	278	287	278	5.18	43.7
Benzene	9.4		0.898	1.40	0.847	0.815	1.11	ND	6.6
Carbon tetrachloride	<1.3		0.629	0.560	0.604	0.616	0.554	0.629	0.7
Chloromethane	3.7		1.25	1.27	1.21	1.26	1.32	1.34	3.7
cis-1,2-Dichloroethene	<1.9		ND	ND	ND	ND	0.103	ND	<1.8
Cyclohexane	NV		3.44	2.74	2.49	2.41	2.19	ND	NV
Dichlorodifluoromethane	16.5		2.38	2.31	2.37	2.42	2.38	2.34	8.1
Ethanol	210		57.1	86.3	117	117	149	ND	57
Ethyl acetate	5.4		ND	ND	7.39	7.82	2.98	ND	1.5
Ethylbenzene	5.7		3.90	4.56	8.43	8.60	7.43	ND	3.5
Heptane	NV		1.33	2.73	1.54	1.43	2.43	ND	NV
Hexane	NV		12.6	9.80	7.30	6.98	6.52	ND	6.4
Isopropanol	NV		71.8	55.1	92.2	86.5	147	3.32	NV
m&p-Xylene	22.2		15.5	17.5	32.5	33.7	28.7	ND	12.8
Methyl Ethyl Ketone	12		118	87.3	51.6	53.1	46.3	ND	11.3
o-Xylene	7.9		3.84	4.69	8.73	8.99	7.08	ND	4.6
Styrene	1.9		ND	1.35	0.903	ND	ND	ND	1.3
Tetrachloroethene	15.9	30	0.156	0.170	0.170	ND	0.149	ND	6.5
Tetrahydrofuran	NV		1,080	835	475	498	481	ND	NV
Toluene	43		14.5	12.1	10.7	9.38	8.14	1.82	33.7
trans-1,2-Dichloroethene	NV		ND	ND	ND	ND	0.975	ND	NV
Trichloroethene	4.2	2	0.570	0.677	0.672	0.580	1.27	0.134	1.3
Trichlorofluoromethane	18.1		ND	1.13	1.33	1.25	1.17	1.14	4.3

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
2. Analytical testing for VOCs via TO-15 completed by Alpha Laboratories.
3. Results present in ug/m³ or microgram per cubic meter.
4. Samples were collected during a 8-hour sample duration.
5. 90th percentile values as presented in C2 (EPA 2001: Building assessment and survey evaluation (BASE) database) Appendix C, in the NYSDOH Guidance Manual, as indicated for Indoor and Outdoor air only.
6. Air Guidance Values from "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health.
7. NYSDOH does not currently have standards, criteria or guidance values for concentrations in sub-slab vapor. The detection of VOCs in sub-slab vapor samples does not necessarily indicate soil vapor intrusion is occurring or action should be taken to address exposures.
8. Grey shaded values represent exceedance of table C2 guidance values; yellow shaded values represent exceedance of NYSDOH Air Guidance Values.
9. Qualifiers: J = result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
10. ND = Non Detect; NV = No Value

Table 2
Soil Vapor Intrusion Analytical Testing Results
166 Chandler Street, Buffalo, NY
April 2020

LOCATION	Guidance Values- Indoor Air		IA-1 (042020) Indoor Air	IA-2 (042020) Indoor Air	IA-3 (042020) Indoor Air	IA-3 (042020) Duplicate Indoor Air	IA-4 (042020) Indoor Air	OA-1 (042020) Outdoor Air	Table C2 Outdoor Air Guidance Values
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value							
SAMPLING DATE	LAB SAMPLE ID	L2016426-01	L2016426-02	L2016426-03	L2016426-04	L2016426-05	L2016426-06		
Acetone	98.9		33.7	40.4	32.3	17.4	37.3	4.3	43.7
Carbon tetrachloride	<1.3		0.635	0.522	0.679	0.616	0.654	0.629	0.7
Chloromethane	3.7		1.08	1.19	1.14	1.14	1.13	1.15	3.7
Cyclohexane	NV		1.3	0.768	0.688	ND	ND	ND	NV
Dichlorodifluoromethane	16.5		2.62	2.77	2.71	2.67	2.61	2.83	8.1
Ethanol	210		6,200	4,540	2,360	923	3,600	14.9	57
Ethyl acetate	5.4		32.8	29.7	17.1	13.9	31.2	ND	1.5
Ethylbenzene	5.7		ND	1.03	ND	0.886	1.68	ND	3.5
Isopropanol	NV		9,370	2,390	1,630	205	1,270	3.39	NV
m&p-Xylene	22.2		3.5	4.14	3.61	3.9	6.99	ND	12.8
Methyl Ethyl Ketone	12		22.4	37.2	12.7	12.7	21.5	ND	11.3
o-Xylene	7.9		0.934	1.09	1.09	1.22	1.71	ND	4.6
Tetrahydrofuran	NV		1.76	2.63	1.78	1.93	1.99	ND	NV
Toluene	43		0.95	1.11	0.904	1.22	0.788	ND	33.7
Trichloroethene	4.2	2	0.21	0.204	0.204	0.451	0.22	ND	1.3
Trichlorofluoromethane	18.1		1.57	1.57	1.66	1.7	1.61	1.68	4.3

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
2. Analytical testing for VOCs via TO-15 completed by Alpha Laboratories.
3. Results present in ug/m³ or microgram per cubic meter.
4. Samples were collected during a 8-hour sample duration.
5. 90th percentile values as presented in C2 (EPA 2001: Building assessment and survey evaluation (BASE) database) Appendix C, in the NYSDOH Guidance Manual, as indicated for Indoor and Outdoor air only.
6. Air Guidance Values from "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health.
7. NYSDOH does not currently have standards, criteria or guidance values for concentrations in sub-slab vapor. The detection of VOCs in sub-slab vapor samples does not necessarily indicate soil vapor intrusion is occurring or action should be taken to address exposures.
8. Grey shaded values represent exceedance of table C2 guidance values; yellow shaded values represent exceedance of NYSDOH Air Guidance Values.
9. Qualifiers: J = result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
10. ND = Non Detect; NV = No Value

Table 3
Soil Vapor Intrusion Analytical Testing Results
166 Chandler Street, Buffalo, NY
April 2019 and April 2020

LOCATION	Guidance Values- Indoor Air		IA-1		IA-2		IA-3				IA-4		OA-1		Table C2 Outdoor Air Guidance Values
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	IA-1 (041619) Indoor Air	IA-1 (042020) Indoor Air	IA-2 (041619) Indoor Air	IA-2 (042020) Indoor Air	IA-3 (041619) Indoor Air	IA-3 (041619) Duplicate Indoor Air	IA-3 (042020) Indoor Air	IA-3 (042020) Duplicate Indoor Air	IA-4 (041619) Indoor Air	IA-4 (042020) Indoor Air	OA-1 (041619) Outdoor Air	OA-1 (042020) Outdoor Air	
			4/16/2019	4/20/2020	4/16/2019	4/20/2020	4/16/2019	4/16/2019	4/20/2020	4/20/2020	4/16/2019	4/20/2020	4/16/2019	4/20/2020	
SAMPLING DATE	LAB SAMPLE ID	L1915616-01	L2016426-01	L1915616-02	L2016426-02	L1915616-03	L1915616-04	L2016426-03	L2016426-04	L1915616-05	L2016426-05	L1915616-06	L2016426-06		
1,1,1-Trichloroethane	20.6		ND	ND	0.169	ND	0.131	0.175	ND	ND	0.338	ND	ND	ND	2.6
1,2,4-Trimethylbenzene	9.5		ND	ND	1.57	ND	ND	ND	ND	ND	1.64	ND	ND	ND	5.8
Acetone	98.9		565	33.7	461	40.4	278	287	32.3	17.4	278	37.3	5.18	4.3	43.7
Benzene	9.4		0.898	ND	1.40	ND	0.847	0.815	ND	ND	1.11	ND	ND	ND	6.6
Carbon tetrachloride	<1.3		0.629	0.635	0.560	0.522	0.604	0.616	0.679	0.616	0.554	0.654	0.629	0.629	0.7
Chloromethane	3.7		1.25	1.08	1.27	1.19	1.21	1.26	1.14	1.14	1.32	1.13	1.34	1.15	3.7
cis-1,2-Dichloroethene	<1.9		ND	ND	ND	ND	ND	ND	ND	ND	0.103	ND	ND	ND	<1.8
Cyclohexane	NV		3.44	1.3	2.74	0.768	2.49	2.41	0.688	ND	2.19	ND	ND	ND	NV
Dichlorodifluoromethane	16.5		2.38	2.62	2.31	2.77	2.37	2.42	2.71	2.67	2.38	2.61	2.34	2.83	8.1
Ethanol	210		57.1	6,200	86.3	4,540	117	117	2,360	923	149	3,600	ND	14.9	57
Ethyl acetate	5.4		ND	32.8	ND	29.7	7.39	7.82	17.1	13.9	2.98	31.2	ND	ND	1.5
Ethylbenzene	5.7		3.90	ND	4.56	1.03	8.43	8.60	ND	0.886	7.43	1.68	ND	ND	3.5
Heptane	NV		1.33	ND	2.73	ND	1.54	1.43	ND	ND	2.43	ND	ND	ND	NV
Hexane	NV		12.6	ND	9.80	ND	7.30	6.98	ND	ND	6.52	ND	ND	ND	6.4
Isopropanol	NV		71.8	9,370	55.1	2,390	92.2	86.5	1,630	205	147	1,270	3.32	3.39	NV
m&p-Xylene	22.2		15.5	3.5	17.5	4.14	32.5	33.7	3.61	3.9	28.7	6.99	ND	ND	12.8
Methyl Ethyl Ketone	12		118	22.4	87.3	37.2	51.6	53.1	12.7	12.7	46.3	21.5	ND	ND	11.3
o-Xylene	7.9		3.84	0.934	4.69	1.09	8.73	8.99	1.09	1.22	7.08	1.71	ND	ND	4.6
Styrene	1.9		ND	ND	1.35	ND	0.903	ND	ND	ND	ND	ND	ND	ND	1.3
Tetrachloroethene	15.9	30	0.156	ND	0.170	ND	0.170	ND	ND	ND	0.149	ND	ND	ND	6.5
Tetrahydrofuran	NV		1,080	1.76	835	2.63	475	498	1.78	1.93	481	1.99	ND	ND	NV
Toluene	43		14.5	0.95	12.1	1.11	10.7	9.38	0.904	1.22	8.14	0.788	1.82	ND	33.7
trans-1,2-Dichloroethene	NV		ND	ND	ND	ND	ND	ND	ND	ND	0.975	ND	ND	ND	NV
Trichloroethene	4.2	2	0.570	0.21	0.677	0.204	0.672	0.580	0.204	0.451	1.27	0.22	0.134	ND	1.3
Trichlorofluoromethane	18.1		ND	1.57	1.13	1.57	1.33	1.25	1.66	1.7	1.17	1.61	1.14	1.68	4.3

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
2. Analytical testing for VOCs via TO-15 completed by Alpha Laboratories.
3. Results present in ug/m³ or microgram per cubic meter.
4. Samples were collected during a 8-hour sample duration.
5. 90th percentile values as presented in C2 (EPA 2001: Building assessment and survey evaluation (BASE) database) Appendix C, in the NYSDOH Guidance Manual, as indicated for Indoor and Outdoor air only.
6. Air Guidance Values from "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health.
7. NYSDOH does not currently have standards, criteria or guidance values for concentrations in sub-slab vapor. The detection of VOCs in sub-slab vapor samples does not necessarily indicate soil vapor intrusion is occurring or action should be taken to address exposures.
8. Grey shaded values represent exceedance of table C2 guidance values; yellow shaded values represent exceedance of NYSDOH Air Guidance Values.
9. Qualifiers: J = result is less than the reporting limit but greater or equal to the method detection limit and the concentration is an approximate value.
10. ND = Non Detect; NV = No Value

APPENDIX E

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number:	L1915616
Client:	Hazard Evaluations, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	SMP INDOOR AIR SAMPLING
Project Number:	E1608
Report Date:	04/23/19

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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).

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



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1915616-01	IA-1 (041619)	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 14:45	04/16/19
L1915616-02	IA-2 (041619)	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 14:55	04/16/19
L1915616-03	IA-3 (041619)	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 15:00	04/16/19
L1915616-04	IA-3 (041619) DUP	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 15:00	04/16/19
L1915616-05	IA-4 (041619)	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 15:15	04/16/19
L1915616-06	OA-1 (041619)	AIR	166 CHANDLER ST., BUFFALO, NY	04/16/19 15:25	04/16/19

Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

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: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

Case Narrative (continued)

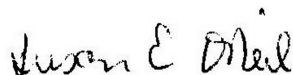
Volatile Organics in Air

Canisters were released from the laboratory on April 15, 2019. The canister certification results are provided as an addendum.

L1915616-01 through -05: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

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:



Susan O'Neil

Title: Technical Director/Representative

Date: 04/23/19

AIR

Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-01
 Client ID: IA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:45
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 19:29
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.482	0.200	--	2.38	0.989	--		1
Chloromethane	0.607	0.200	--	1.25	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	30.3	5.00	--	57.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	238	1.00	--	565	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	29.2	0.500	--	71.8	1.23	--		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	40.0	0.500	--	118	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	332	0.500	--	979	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-01
 Client ID: IA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:45
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	3.57	0.200	--	12.6	0.705	--		1
Benzene	0.281	0.200	--	0.898	0.639	--		1
Cyclohexane	1.00	0.200	--	3.44	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	0.325	0.200	--	1.33	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	3.85	0.200	--	14.5	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.899	0.200	--	3.90	0.869	--		1
p/m-Xylene	3.56	0.400	--	15.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.883	0.200	--	3.84	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



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-01
 Client ID: IA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:45
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-01
 Client ID: IA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:45
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 19:29
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.100	0.020	--	0.629	0.126	--		1
Trichloroethene	0.106	0.020	--	0.570	0.107	--		1
Tetrachloroethene	0.023	0.020	--	0.156	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-01 D
 Client ID: IA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:45
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/19 09:05
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	366	2.50	--	1080	7.37	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-02
 Client ID: IA-2 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:55
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 20:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.467	0.200	--	2.31	0.989	--		1
Chloromethane	0.614	0.200	--	1.27	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	45.8	5.00	--	86.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	194	1.00	--	461	2.38	--		1
Trichlorofluoromethane	0.201	0.200	--	1.13	1.12	--		1
Isopropanol	22.4	0.500	--	55.1	1.23	--		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	29.6	0.500	--	87.3	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	261	0.500	--	770	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-02
 Client ID: IA-2 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:55
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.78	0.200	--	9.80	0.705	--		1
Benzene	0.437	0.200	--	1.40	0.639	--		1
Cyclohexane	0.797	0.200	--	2.74	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	0.666	0.200	--	2.73	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	3.20	0.200	--	12.1	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	1.05	0.200	--	4.56	0.869	--		1
p/m-Xylene	4.02	0.400	--	17.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.317	0.200	--	1.35	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.08	0.200	--	4.69	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.320	0.200	--	1.57	0.983	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-02
 Client ID: IA-2 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:55
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-02
 Client ID: IA-2 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:55
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 20:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.031	0.020	--	0.169	0.109	--		1
Carbon tetrachloride	0.089	0.020	--	0.560	0.126	--		1
Trichloroethene	0.126	0.020	--	0.677	0.107	--		1
Tetrachloroethene	0.025	0.020	--	0.170	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-02 D
 Client ID: IA-2 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 14:55
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/19 09:41
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	283	2.50	--	835	7.37	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-03
 Client ID: IA-3 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 21:29
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.585	0.200	--	1.21	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	61.9	5.00	--	117	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	117	1.00	--	278	2.38	--		1
Trichlorofluoromethane	0.236	0.200	--	1.33	1.12	--		1
Isopropanol	37.5	0.500	--	92.2	1.23	--		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	17.5	0.500	--	51.6	1.47	--		1
Ethyl Acetate	2.05	0.500	--	7.39	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	157	0.500	--	463	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-03
 Client ID: IA-3 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	2.07	0.200	--	7.30	0.705	--		1
Benzene	0.265	0.200	--	0.847	0.639	--		1
Cyclohexane	0.722	0.200	--	2.49	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	0.376	0.200	--	1.54	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	2.83	0.200	--	10.7	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	1.94	0.200	--	8.43	0.869	--		1
p/m-Xylene	7.49	0.400	--	32.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.212	0.200	--	0.903	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.01	0.200	--	8.73	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



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-03
 Client ID: IA-3 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	94		60-140
chlorobenzene-d5	94		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-03
 Client ID: IA-3 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 21:29
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.024	0.020	--	0.131	0.109	--		1
Carbon tetrachloride	0.096	0.020	--	0.604	0.126	--		1
Trichloroethene	0.125	0.020	--	0.672	0.107	--		1
Tetrachloroethene	0.025	0.020	--	0.170	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-03 D
 Client ID: IA-3 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/19 10:55
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	161	1.67	--	475	4.93	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-04
 Client ID: IA-3 (041619) DUP
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 22:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.489	0.200	--	2.42	0.989	--		1
Chloromethane	0.611	0.200	--	1.26	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	61.9	5.00	--	117	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	121	1.00	--	287	2.38	--		1
Trichlorofluoromethane	0.222	0.200	--	1.25	1.12	--		1
Isopropanol	35.2	0.500	--	86.5	1.23	--		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	18.0	0.500	--	53.1	1.47	--		1
Ethyl Acetate	2.17	0.500	--	7.82	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	165	0.500	--	487	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-04
 Client ID: IA-3 (041619) DUP
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1.98	0.200	--	6.98	0.705	--		1
Benzene	0.255	0.200	--	0.815	0.639	--		1
Cyclohexane	0.700	0.200	--	2.41	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	0.348	0.200	--	1.43	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	2.49	0.200	--	9.38	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	1.98	0.200	--	8.60	0.869	--		1
p/m-Xylene	7.75	0.400	--	33.7	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	2.07	0.200	--	8.99	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



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-04
 Client ID: IA-3 (041619) DUP
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-04
 Client ID: IA-3 (041619) DUP
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 22:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.032	0.020	--	0.175	0.109	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	0.108	0.020	--	0.580	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-04 D
 Client ID: IA-3 (041619) DUP
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:00
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/19 11:32
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	169	1.67	--	498	4.93	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-05
 Client ID: IA-4 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:15
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 22:48
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.482	0.200	--	2.38	0.989	--		1
Chloromethane	0.637	0.200	--	1.32	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	79.0	5.00	--	149	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	117	1.00	--	278	2.38	--		1
Trichlorofluoromethane	0.209	0.200	--	1.17	1.12	--		1
Isopropanol	59.8	0.500	--	147	1.23	--		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	0.246	0.200	--	0.975	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	15.7	0.500	--	46.3	1.47	--		1
Ethyl Acetate	0.827	0.500	--	2.98	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	156	0.500	--	460	1.47	--	E	1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-05
 Client ID: IA-4 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:15
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
n-Hexane	1.85	0.200	--	6.52	0.705	--		1
Benzene	0.347	0.200	--	1.11	0.639	--		1
Cyclohexane	0.636	0.200	--	2.19	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	0.593	0.200	--	2.43	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	2.16	0.200	--	8.14	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	1.71	0.200	--	7.43	0.869	--		1
p/m-Xylene	6.60	0.400	--	28.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.63	0.200	--	7.08	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.333	0.200	--	1.64	0.983	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-05
 Client ID: IA-4 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:15
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	95		60-140
chlorobenzene-d5	94		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-05
 Client ID: IA-4 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:15
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 22:48
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.026	0.020	--	0.103	0.079	--		1
1,1,1-Trichloroethane	0.062	0.020	--	0.338	0.109	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Trichloroethene	0.236	0.020	--	1.27	0.107	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1

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



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-05 D
 Client ID: IA-4 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:15
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/21/19 12:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	163	1.67	--	481	4.93	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-06
 Client ID: OA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:25
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/20/19 18:49
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.474	0.200	--	2.34	0.989	--		1
Chloromethane	0.649	0.200	--	1.34	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.18	1.00	--	5.18	2.38	--		1
Trichlorofluoromethane	0.202	0.200	--	1.14	1.12	--		1
Isopropanol	1.35	0.500	--	3.32	1.23	--		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
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-06
 Client ID: OA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:25
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	0.483	0.200	--	1.82	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
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**SAMPLE RESULTS**

Lab ID: L1915616-06
 Client ID: OA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:25
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

SAMPLE RESULTS

Lab ID: L1915616-06
 Client ID: OA-1 (041619)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/16/19 15:25
 Date Received: 04/16/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/20/19 18:49
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.100	0.020	--	0.629	0.126	--		1
Trichloroethene	0.025	0.020	--	0.134	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140



Project Name: SMP INDOOR AIR SAMPLING

Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/19 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1228602-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SMP INDOOR AIR SAMPLING

Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/19 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1228602-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	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



Project Name: SMP INDOOR AIR SAMPLING

Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/20/19 15:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1228602-4								
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
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: SMP INDOOR AIR SAMPLING

Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/20/19 16:11

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1228604-4								
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: SMP INDOOR AIR SAMPLING

Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1228602-3								
Propylene	106		-		70-130	-		
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	96		-		70-130	-		
Freon-114	90		-		70-130	-		
Vinyl chloride	76		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	73		-		70-130	-		
Chloroethane	73		-		70-130	-		
Ethanol	80		-		40-160	-		
Vinyl bromide	78		-		70-130	-		
Acetone	76		-		40-160	-		
Trichlorofluoromethane	88		-		70-130	-		
Isopropanol	79		-		40-160	-		
1,1-Dichloroethene	80		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	91		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
Freon-113	98		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
Vinyl acetate	120		-		70-130	-		
2-Butanone	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1228602-3								
cis-1,2-Dichloroethene	90		-		70-130	-		
Ethyl Acetate	87		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	100		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	89		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	126		-		70-130	-		
Cyclohexane	89		-		70-130	-		
1,2-Dichloropropane	100		-		70-130	-		
Bromodichloromethane	107		-		70-130	-		
1,4-Dioxane	80		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	91		-		70-130	-		
Heptane	114		-		70-130	-		
cis-1,3-Dichloropropene	116		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	105		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	84		-		70-130	-		
Dibromochloromethane	115		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1228602-3								
1,2-Dibromoethane	104		-		70-130	-		
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	117		-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	96		-		70-130	-		
o-Xylene	98		-		70-130	-		
4-Ethyltoluene	100		-		70-130	-		
1,3,5-Trimethylbenzene	99		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Benzyl chloride	128		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	100		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
1,2,4-Trichlorobenzene	101		-		70-130	-		
Hexachlorobutadiene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1228604-3								
Vinyl chloride	74		-		70-130	-		25
1,1-Dichloroethene	78		-		70-130	-		25
cis-1,2-Dichloroethene	87		-		70-130	-		25
1,1,1-Trichloroethane	113		-		70-130	-		25
Carbon tetrachloride	129		-		70-130	-		25
Trichloroethene	93		-		70-130	-		25
Tetrachloroethene	86		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1228602-5 QC Sample: L1915616-02 Client ID: IA-2 (041619)						
Dichlorodifluoromethane	0.467	0.482	ppbV	3		25
Chloromethane	0.614	0.613	ppbV	0		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	45.8	46.8	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	194	198	ppbV	2		25
Trichlorofluoromethane	0.201	0.205	ppbV	2		25
Isopropanol	22.4	22.9	ppbV	2		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	29.6	30.3	ppbV	2		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1228602-5 QC Sample: L1915616-02 Client ID: IA-2 (041619)						
Tetrahydrofuran	261E	268E	ppbV	5		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	2.78	2.86	ppbV	3		25
Benzene	0.437	0.447	ppbV	2		25
Cyclohexane	0.797	0.819	ppbV	3		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	0.666	0.699	ppbV	5		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	3.20	3.22	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	1.05	1.05	ppbV	0		25
p/m-Xylene	4.02	4.01	ppbV	0		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1228602-5 QC Sample: L1915616-02 Client ID: IA-2 (041619)						
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.317	0.322	ppbV	2		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.08	1.09	ppbV	1		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.320	0.310	ppbV	3		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 - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1228602-5 QC Sample: L1915616-02 Client ID: IA-2 (041619)						
Tetrahydrofuran	283	278	ppbV	2		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SMP INDOOR AIR SAMPLING

Project Number: E1608

Lab Number: L1915616

Report Date: 04/23/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1228604-5 QC Sample: L1915616-02 Client ID: IA-2 (041619)						
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	0.031	0.028	ppbV	10		25
Carbon tetrachloride	0.089	0.094	ppbV	5		25
Trichloroethene	0.126	0.147	ppbV	15		25
Tetrachloroethene	0.025	0.025	ppbV	0		25

Project Name: SMP INDOOR AIR SAMPLING

Serial_No:04231913:42
 Lab Number: L1915616

Project Number: E1608

Report Date: 04/23/19

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
L1915616-01	IA-1 (041619)	0150	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	4.7	4
L1915616-01	IA-1 (041619)	447	2.7L Can	04/15/19	289676	L1913721-01	Pass	-29.6	-4.6	-	-	-	-
L1915616-02	IA-2 (041619)	0870	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	4.9	9
L1915616-02	IA-2 (041619)	468	2.7L Can	04/15/19	289676	L1913721-01	Pass	-29.6	-4.6	-	-	-	-
L1915616-03	IA-3 (041619)	0919	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	4.0	12
L1915616-03	IA-3 (041619)	2346	2.7L Can	04/15/19	289676	L1913721-01	Pass	-29.6	-8.8	-	-	-	-
L1915616-04	IA-3 (041619) DUP	0486	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	5.1	13
L1915616-04	IA-3 (041619) DUP	348	2.7L Can	04/15/19	289676	L1913721-01	Pass	-29.8	-4.0	-	-	-	-
L1915616-05	IA-4 (041619)	01206	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	4.8	6
L1915616-05	IA-4 (041619)	215	2.7L Can	04/15/19	289676	L1913721-01	Pass	-29.6	-4.8	-	-	-	-
L1915616-06	OA-1 (041619)	0555	Flow 5	04/15/19	289676		-	-	-	Pass	4.5	5.4	18
L1915616-06	OA-1 (041619)	385	2.7L Can	04/15/19	289676	L1913721-01	Pass	-30.0	-3.7	-	-	-	-



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
Client ID: CAN 329 SHELF 2
Sample Location:

Date Collected: 04/04/19 16:00
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 04/06/19 19:18
Analyst: TS

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/06/19 19:18
 Analyst: TS

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1913721
Report Date: 04/23/19

Air Canister Certification Results

Lab ID: L1913721-01
 Client ID: CAN 329 SHELF 2
 Sample Location:

Date Collected: 04/04/19 16:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140



Project Name: SMP INDOOR AIR SAMPLING**Lab Number:** L1915616**Project Number:** E1608**Report Date:** 04/23/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1915616-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1915616-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1915616-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1915616-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1915616-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1915616-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

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

Project Name: SMP INDOOR AIR SAMPLING
Project Number: E1608

Lab Number: L1915616
Report Date: 04/23/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

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

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

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



AIR ANALYSIS

CHAIN OF CUSTODY

PAGE 1 OF 1

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

Client Information

Client: Hazard Evaluations Inc.
Address: 3636 N. Buffalo Rd.
Orchard Park NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: mhanna@hazardevaluations.com

Project Information

Project Name: SMP Indoor Air Sampling
Project Location: 166 Chandler St. Buffalo, NY
Project #: e1608
Project Manager: Mark Hanna / Michele Wittman
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab: 4/17/19

Report Information - Data Deliverables

FAX
 ADEX
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables: ASP-B
Report to: (if different than Project Manager)

ALPHA Job #: L1915616

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS					Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum						TO-15	TO-15 SIM	APH (Adjusted Non-petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	
1526.01	IA-1(041619)	4/16/19	6:45am	2:45pm	29.29	4.40	AA	EB	2.7	447	0150	X					
.02	IA-2(041619)	4/16/19	6:55am	2:55pm	30.18	4.79	AA	EB	2.7	468	0870	X					
.03	IA-3(041619)	4/16/19	7:00am	3:00pm	29.23	8.75	AA	EB	2.7	2346	0919	X					
.04	IA-3(041619) DUP.	4/16/19	7:00am	3:00pm	29.63	3.70	AA	EB	2.7	348	0486	X					
.05	IA-4(041619)	4/16/19	7:15am	3:15pm	29.40	4.61	AA	EB	2.7	2150	1206	X					
.06	OA-1(041619)	4/16/19	7:25am	3:25pm	29.80	4.92	AA	EB	2.7	385	0555						

***SAMPLE MATRIX CODES**

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

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
<i>[Signature]</i>	4/16/19 15:35	<i>[Signature]</i>	4/16/19 15:35
<i>[Signature]</i>	4/16/19 16:00	<i>[Signature]</i>	4/16/19 16:00
<i>[Signature]</i>	04/17/19 05:25	<i>[Signature]</i>	4/17/19 05:25



ANALYTICAL REPORT

Lab Number:	L2016426
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	CY2020 INDOOR AIR ASSESSMENT
Project Number:	E1916
Report Date:	04/27/20

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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).

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



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2016426-01	IA-1(042020)	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 15:55	04/20/20
L2016426-02	IA-2(042020)	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 16:05	04/20/20
L2016426-03	IA-4(042020)	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 16:15	04/20/20
L2016426-04	IA-3(042020)	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 16:25	04/20/20
L2016426-05	IA-3(042020)DUPLICATE	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 16:25	04/20/20
L2016426-06	OA-1(042020)	AIR	166 CHANDLER ST., BUFFALO, NY	04/20/20 16:30	04/20/20

Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 16, 2020. The canister certification results are provided as an addendum.

L2016426-01 through -04: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2016426-03: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

TO15-SIM WG1363567-5: The relative percent difference for carbon tetrachloride (28%) is above the RPD limit of 25%. This compound represented less than 10% of the compounds detected; therefore no further action was taken.

TO15-LL The WG1363973-3 LCS recoveries for n-hexane (137%), benzyl chloride (152%) and 1,3-dichlorobenzene (154%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/27/20

AIR

Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-01
 Client ID: IA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 15:55
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 18:04
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.530	0.200	--	2.62	0.989	--		1
Chloromethane	0.523	0.200	--	1.08	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	1060	5.00	--	2000	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.2	1.00	--	33.7	2.38	--		1
Trichlorofluoromethane	0.279	0.200	--	1.57	1.12	--		1
Isopropanol	1010	0.500	--	2480	1.23	--	E	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	7.58	0.500	--	22.4	1.47	--		1
Ethyl Acetate	9.10	0.500	--	32.8	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.597	0.500	--	1.76	1.47	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-01
 Client ID: IA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 15:55
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	0.378	0.200	--	1.30	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	0.252	0.200	--	0.950	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	0.805	0.400	--	3.50	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.215	0.200	--	0.934	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-01

Date Collected: 04/20/20 15:55

Client ID: IA-1(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-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	91		60-140
chlorobenzene-d5	100		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-01
 Client ID: IA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 15:55
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 18:04
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.101	0.020	--	0.635	0.126	--		1
Trichloroethene	0.039	0.020	--	0.210	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	101		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-01 D
 Client ID: IA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 15:55
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/24/20 08:28
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	3290	83.4	--	6200	157	--		16.67
Isopropanol	3810	8.34	--	9370	20.5	--		16.67

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	64		60-140
chlorobenzene-d5	80		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-02
 Client ID: IA-2(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:05
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 19:25
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.561	0.200	--	2.77	0.989	--		1
Chloromethane	0.574	0.200	--	1.19	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	1160	5.00	--	2190	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.0	1.00	--	40.4	2.38	--		1
Trichlorofluoromethane	0.280	0.200	--	1.57	1.12	--		1
Isopropanol	548	0.500	--	1350	1.23	--	E	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	12.6	0.500	--	37.2	1.47	--		1
Ethyl Acetate	8.24	0.500	--	29.7	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.893	0.500	--	2.63	1.47	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-02

Date Collected: 04/20/20 16:05

Client ID: IA-2(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	0.223	0.200	--	0.768	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	0.295	0.200	--	1.11	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.238	0.200	--	1.03	0.869	--		1
p/m-Xylene	0.953	0.400	--	4.14	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.251	0.200	--	1.09	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-02

Date Collected: 04/20/20 16:05

Client ID: IA-2(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	99		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-02
 Client ID: IA-2(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:05
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 19:25
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	100		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-02 D
 Client ID: IA-2(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:05
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/23/20 23:07
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	2410	25.0	--	4540	47.1	--		5
Isopropanol	973	2.50	--	2390	6.15	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	76		60-140
chlorobenzene-d5	70		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-03
 Client ID: IA-4(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:15
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 20:05
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.528	0.200	--	2.61	0.989	--		1
Chloromethane	0.548	0.200	--	1.13	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	1100	5.00	--	2070	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	15.7	1.00	--	37.3	2.38	--		1
Trichlorofluoromethane	0.286	0.200	--	1.61	1.12	--		1
Isopropanol	465	0.500	--	1140	1.23	--	E	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	7.29	0.500	--	21.5	1.47	--		1
Ethyl Acetate	8.65	0.500	--	31.2	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.675	0.500	--	1.99	1.47	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-03

Date Collected: 04/20/20 16:15

Client ID: IA-4(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.209	0.200	--	0.788	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.387	0.200	--	1.68	0.869	--		1
p/m-Xylene	1.61	0.400	--	6.99	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.393	0.200	--	1.71	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-03

Date Collected: 04/20/20 16:15

Client ID: IA-4(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-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	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	103		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-03
 Client ID: IA-4(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:15
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 20:05
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.104	0.020	--	0.654	0.126	--		1
Trichloroethene	0.041	0.020	--	0.220	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	105		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-03 D2

Date Collected: 04/20/20 16:15

Client ID: IA-4(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 04/25/20 08:39

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	1910	31.2	--	3600	58.8	--		6.25
Isopropanol	516	3.12	--	1270	7.67	--		6.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-04
 Client ID: IA-3(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 20:44
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.549	0.200	--	2.71	0.989	--		1
Chloromethane	0.554	0.200	--	1.14	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	720	5.00	--	1360	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	13.6	1.00	--	32.3	2.38	--		1
Trichlorofluoromethane	0.295	0.200	--	1.66	1.12	--		1
Isopropanol	408	0.500	--	1000	1.23	--	E	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	4.29	0.500	--	12.7	1.47	--		1
Ethyl Acetate	4.75	0.500	--	17.1	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.603	0.500	--	1.78	1.47	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-04

Date Collected: 04/20/20 16:25

Client ID: IA-3(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	0.200	0.200	--	0.688	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	0.240	0.200	--	0.904	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	0.831	0.400	--	3.61	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.251	0.200	--	1.09	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-04

Date Collected: 04/20/20 16:25

Client ID: IA-3(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-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	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	106		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-04
 Client ID: IA-3(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 20:44
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.108	0.020	--	0.679	0.126	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	106		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-04 D
 Client ID: IA-3(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/24/20 00:56
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	1250	20.8	--	2360	39.2	--		4.167
Isopropanol	663	2.08	--	1630	5.11	--		4.167

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	72		60-140
Bromochloromethane	79		60-140
chlorobenzene-d5	73		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-05
 Client ID: IA-3(042020)DUPLICATE
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 21:24
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.540	0.200	--	2.67	0.989	--		1
Chloromethane	0.552	0.200	--	1.14	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	490	5.00	--	923	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.31	1.00	--	17.4	2.38	--		1
Trichlorofluoromethane	0.303	0.200	--	1.70	1.12	--		1
Isopropanol	83.4	0.500	--	205	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	2.77	0.500	--	8.17	1.47	--		1
Ethyl Acetate	3.85	0.500	--	13.9	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.655	0.500	--	1.93	1.47	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-05
 Client ID: IA-3(042020)DUPLICATE
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.325	0.200	--	1.22	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.204	0.200	--	0.886	0.869	--		1
p/m-Xylene	0.897	0.400	--	3.90	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.282	0.200	--	1.22	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-05

Date Collected: 04/20/20 16:25

Client ID: IA-3(042020)DUPLICATE

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-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	95		60-140
chlorobenzene-d5	101		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-05
 Client ID: IA-3(042020)DUPLICATE
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:25
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 21:24
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.098	0.020	--	0.616	0.126	--		1
Trichloroethene	0.084	0.020	--	0.451	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	103		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

SAMPLE RESULTS

Lab ID: L2016426-06
 Client ID: OA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:30
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 04/22/20 17:24
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.573	0.200	--	2.83	0.989	--		1
Chloromethane	0.558	0.200	--	1.15	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	7.89	5.00	--	14.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.81	1.00	--	4.30	2.38	--		1
Trichlorofluoromethane	0.299	0.200	--	1.68	1.12	--		1
Isopropanol	1.38	0.500	--	3.39	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: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-06
 Client ID: OA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:30
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:

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



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-06

Date Collected: 04/20/20 16:30

Client ID: OA-1(042020)

Date Received: 04/20/20

Sample Location: 166 CHANDLER ST., BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-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	85		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	94		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**SAMPLE RESULTS**

Lab ID: L2016426-06
 Client ID: OA-1(042020)
 Sample Location: 166 CHANDLER ST., BUFFALO, NY

Date Collected: 04/20/20 16:30
 Date Received: 04/20/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/22/20 17:24
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.100	0.020	--	0.629	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	96		60-140



Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/22/20 14:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1363566-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/22/20 14:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1363566-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/22/20 14:29

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-06 Batch: WG1363566-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/22/20 15:08

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG1363567-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/23/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,04 Batch: WG1363973-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/23/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,04 Batch: WG1363973-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/23/20 14:50

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02,04 Batch: WG1363973-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/20 15:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03 Batch: WG1364368-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/20 15:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03 Batch: WG1364368-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/24/20 15:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 03 Batch: WG1364368-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1363566-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	95		-		70-130	-		
Freon-114	104		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	108		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethanol	76		-		40-160	-		
Vinyl bromide	103		-		70-130	-		
Acetone	86		-		40-160	-		
Trichlorofluoromethane	129		-		70-130	-		
Isopropanol	76		-		40-160	-		
1,1-Dichloroethene	110		-		70-130	-		
Tertiary butyl Alcohol	90		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	101		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	108		-		70-130	-		
Methyl tert butyl ether	102		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1363566-3								
Ethyl Acetate	112		-		70-130	-		
Chloroform	112		-		70-130	-		
Tetrahydrofuran	101		-		70-130	-		
1,2-Dichloroethane	128		-		70-130	-		
n-Hexane	100		-		70-130	-		
1,1,1-Trichloroethane	119		-		70-130	-		
Benzene	93		-		70-130	-		
Carbon tetrachloride	130		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Heptane	106		-		70-130	-		
cis-1,3-Dichloropropene	106		-		70-130	-		
4-Methyl-2-pentanone	111		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	99		-		70-130	-		
2-Hexanone	103		-		70-130	-		
Dibromochloromethane	109		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 Batch: WG1363566-3								
Tetrachloroethene	100		-		70-130	-		
Chlorobenzene	102		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	106		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	106		-		70-130	-		
o-Xylene	106		-		70-130	-		
4-Ethyltoluene	96		-		70-130	-		
1,3,5-Trimethylbenzene	101		-		70-130	-		
1,2,4-Trimethylbenzene	101		-		70-130	-		
Benzyl chloride	109		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
1,2-Dichlorobenzene	101		-		70-130	-		
1,2,4-Trichlorobenzene	107		-		70-130	-		
Hexachlorobutadiene	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG1363567-3								
Vinyl chloride	99		-		70-130	-		25
1,1-Dichloroethene	107		-		70-130	-		25
cis-1,2-Dichloroethene	103		-		70-130	-		25
1,1,1-Trichloroethane	115		-		70-130	-		25
Carbon tetrachloride	118		-		70-130	-		25
Trichloroethene	89		-		70-130	-		25
Tetrachloroethene	94		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,04 Batch: WG1363973-3								
Dichlorodifluoromethane	106		-		70-130	-		
Chloromethane	104		-		70-130	-		
Freon-114	112		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	114		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethanol	105		-		40-160	-		
Vinyl bromide	98		-		70-130	-		
Acetone	74		-		40-160	-		
Trichlorofluoromethane	100		-		70-130	-		
Isopropanol	76		-		40-160	-		
1,1-Dichloroethene	97		-		70-130	-		
Tertiary butyl Alcohol	93		-		70-130	-		
Methylene chloride	104		-		70-130	-		
3-Chloropropene	101		-		70-130	-		
Carbon disulfide	104		-		70-130	-		
Freon-113	104		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	89		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
2-Butanone	88		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,04 Batch: WG1363973-3								
Ethyl Acetate	76		-		70-130	-		
Chloroform	82		-		70-130	-		
Tetrahydrofuran	71		-		70-130	-		
1,2-Dichloroethane	78		-		70-130	-		
n-Hexane	137	Q	-		70-130	-		
1,1,1-Trichloroethane	104		-		70-130	-		
Benzene	110		-		70-130	-		
Carbon tetrachloride	119		-		70-130	-		
Cyclohexane	106		-		70-130	-		
1,2-Dichloropropane	109		-		70-130	-		
Bromodichloromethane	115		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	108		-		70-130	-		
2,2,4-Trimethylpentane	110		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	120		-		70-130	-		
4-Methyl-2-pentanone	117		-		70-130	-		
trans-1,3-Dichloropropene	107		-		70-130	-		
1,1,2-Trichloroethane	111		-		70-130	-		
Toluene	98		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	110		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,04 Batch: WG1363973-3								
Tetrachloroethene	95		-		70-130	-		
Chlorobenzene	93		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	116		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	111		-		70-130	-		
o-Xylene	110		-		70-130	-		
4-Ethyltoluene	98		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Benzyl chloride	152	Q	-		70-130	-		
1,3-Dichlorobenzene	154	Q	-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
1,2-Dichlorobenzene	100		-		70-130	-		
1,2,4-Trichlorobenzene	104		-		70-130	-		
Hexachlorobutadiene	111		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03 Batch: WG1364368-3								
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	81		-		70-130	-		
Freon-114	94		-		70-130	-		
Vinyl chloride	88		-		70-130	-		
1,3-Butadiene	90		-		70-130	-		
Bromomethane	89		-		70-130	-		
Chloroethane	82		-		70-130	-		
Ethanol	83		-		40-160	-		
Vinyl bromide	84		-		70-130	-		
Acetone	67		-		40-160	-		
Trichlorofluoromethane	93		-		70-130	-		
Isopropanol	65		-		40-160	-		
1,1-Dichloroethene	96		-		70-130	-		
Tertiary butyl Alcohol	92		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
Freon-113	101		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03 Batch: WG1364368-3								
Ethyl Acetate	100		-		70-130	-		
Chloroform	106		-		70-130	-		
Tetrahydrofuran	91		-		70-130	-		
1,2-Dichloroethane	99		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
Benzene	101		-		70-130	-		
Carbon tetrachloride	110		-		70-130	-		
Cyclohexane	100		-		70-130	-		
1,2-Dichloropropane	94		-		70-130	-		
Bromodichloromethane	105		-		70-130	-		
1,4-Dioxane	99		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	102		-		70-130	-		
Heptane	94		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	95		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	99		-		70-130	-		
2-Hexanone	99		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 03 Batch: WG1364368-3								
Tetrachloroethene	102		-		70-130	-		
Chlorobenzene	106		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	109		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	114		-		70-130	-		
Benzyl chloride	114		-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
1,2-Dichlorobenzene	120		-		70-130	-		
1,2,4-Trichlorobenzene	123		-		70-130	-		
Hexachlorobutadiene	122		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1363566-5 QC Sample: L2016426-01 Client ID: IA-1(042020)						
Dichlorodifluoromethane	0.530	0.554	ppbV	4		25
Chloromethane	0.523	0.554	ppbV	6		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	1060E	1080E	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	14.2	14.0	ppbV	1		25
Trichlorofluoromethane	0.279	0.290	ppbV	4		25
Isopropanol	1010E	1020E	ppbV	1		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	7.58	7.54	ppbV	1		25
Ethyl Acetate	9.10	9.09	ppbV	0		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1363566-5 QC Sample: L2016426-01 Client ID: IA-1(042020)						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	0.597	0.609	ppbV	2		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	0.378	0.387	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	0.252	0.254	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1363566-5 QC Sample: L2016426-01 Client ID: IA-1(042020)						
p/m-Xylene	0.805	0.817	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.215	0.222	ppbV	3		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: CY2020 INDOOR AIR ASSESSMENT

Project Number: E1916

Lab Number: L2016426

Report Date: 04/27/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1363567-5 QC Sample: L2016426-01 Client ID: IA-1(042020)						
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	0.101	0.076	ppbV	28	Q	25
Trichloroethene	0.039	0.034	ppbV	14		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02,04 QC Batch ID: WG1363973-5 QC Sample: L2016426-02 Client ID: IA-2(042020)						
Ethanol	2410	2450	ppbV	2		25
Isopropanol	973	983	ppbV	1		25

Project Name: CY2020 INDOOR AIR ASSESSMENT

Serial_No:04272014:43
 Lab Number: L2016426

Project Number: E1916

Report Date: 04/27/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2016426-01	IA-1(042020)	0779	Flow 4	04/16/20	319139		-	-	-	Pass	4.5	4.7	4
L2016426-01	IA-1(042020)	2017	2.7L Can	04/16/20	319139	L2012909-01	Pass	-28.2	-1.4	-	-	-	-
L2016426-02	IA-2(042020)	0635	Flow 5	04/16/20	319139		-	-	-	Pass	4.5	4.2	7
L2016426-02	IA-2(042020)	2304	2.7L Can	04/16/20	319139	L2012909-01	Pass	-28.3	-4.2	-	-	-	-
L2016426-03	IA-4(042020)	0088	Flow 4	04/16/20	319139		-	-	-	Pass	4.5	4.3	5
L2016426-03	IA-4(042020)	2855	2.7L Can	04/16/20	319139	L2012909-01	Pass	-28.5	0.0	-	-	-	-
L2016426-04	IA-3(042020)	0492	Flow 5	04/16/20	319139		-	-	-	Pass	4.5	4.2	7
L2016426-04	IA-3(042020)	3021	2.7L Can	04/16/20	319139	L2013757-02	Pass	-29.4	-4.0	-	-	-	-
L2016426-05	IA-3(042020)DUPLICATE	0904	Flow 4	04/16/20	319139		-	-	-	Pass	4.5	4.0	12
L2016426-05	IA-3(042020)DUPLICATE	2229	2.7L Can	04/16/20	319139	L2012909-01	Pass	-29.2	0.0	-	-	-	-
L2016426-06	OA-1(042020)	01656	Flow 4	04/16/20	319139		-	-	-	Pass	4.5	4.1	9
L2016426-06	OA-1(042020)	2233	2.7L Can	04/16/20	319139	L2012909-01	Pass	-29.3	-3.1	-	-	-	-

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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/23/20 20:56
 Analyst: TS

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



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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	84		60-140

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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/23/20 20:56
 Analyst: TS

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



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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2012909
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2012909-01
 Client ID: CAN 477 SHELF 10
 Sample Location:

Date Collected: 03/21/20 16:00
 Date Received: 03/23/20
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	81		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	84		60-140



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/20 17:32
 Analyst: RY

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



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/30/20 17:32
 Analyst: RY

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



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2013757
Report Date: 04/27/20

Air Canister Certification Results

Lab ID: L2013757-02
 Client ID: CAN 491 SHELF 14
 Sample Location:

Date Collected: 03/28/20 16:00
 Date Received: 03/30/20
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	87		60-140

Project Name: CY2020 INDOOR AIR ASSESSMENT**Lab Number:** L2016426**Project Number:** E1916**Report Date:** 04/27/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2016426-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2016426-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2016426-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2016426-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2016426-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2016426-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

Data Qualifiers

than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: CY2020 INDOOR AIR ASSESSMENT
Project Number: E1916

Lab Number: L2016426
Report Date: 04/27/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

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

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

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 4/21/20

ALPHA Job #: LA2016436

Client Information

Client: Environmental Advantage Inc.
 Address: 3636 N. Buffalo Rd
 Orchard Park NY 14127
 Phone: 716-667-3130
 Fax: 716-667-3156
 Email: mhanna@envadvantage.com

Project Information

Project Name: CY2020 Indoor Air Assessment
 Project Location: 166 Chandler St. Buffalo, NY
 Project #: e1916
 Project Manager: Mark Hanna + Eric Betzold

Report Information - Data Deliverables

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

Billing Information

Same as Client info PO #: e1916

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments: Additionally email results to ebetzold@envadvantage.com

Project-Specific Target Compound List:

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15 TO-15 SIM	APH <small>Relevant Non-hydrocarbon HCs</small>	Fixed Gases <small>Sulfides & Mercaptans by TO-15</small>	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum									
14426-01	IA-1(042020)	4/20/2020	7:55am	3:55pm	26.96"	-1.94"	AA	EB	2.7L	2017	0779	X			0.0ppm
-02	IA-2(042020)	4/20/2020	8:05am	4:05pm	27.73"	-4.50"	AA	EB	2.7L	2304	0635	X			0.0ppm
-03	IA-4(042020)	4/20/2020	8:15am	4:15pm	28.62"	-1.27"	AA	EB	2.7L	2855	0088	X			0.0ppm
-04	IA-3(042020)	4/20/20	8:25am	4:25pm	29.75"	-4.38"	AA	EB	2.7L	3021	0492	X			0.0ppm
-05	IA3(042020) Duplicate	4/20/2020	8:25am	4:25pm	28.48"	-0.00"	AA	EB	2.7L	2229	0904	X			0.0ppm
-06	OA-1(042020)	4/20/2020	8:30am	4:30pm	26.84"	-2.75"	OA	EB	2.7L	2233	01656	X			0.0ppm

*SAMPLE MATRIX CODES

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

Container Type CS

Relinquished By:

Date/Time

Received By:

Date/Time:

[Signature]
 P. H. White

4/20/2020 1630m
 4/20/20 1640
 4/21/20 0400

[Signature]
 Eric Betzold

4/20/20 1650
 4/20/20 23:50
 4/21/20 0400

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.

APPENDIX F

DATA USABILITY SUMMARY REPORTS

Data Usability Summary Report

Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

166 Chandler St.
SDG#L1915616
March 20, 2020
Sampling date: 4/16/2019

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

166 Chandler St.
SDG# L1915616

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Hazard Evaluations, Inc., project located at 166 Chandler St., Alpha Analytical, #L1915616 submitted to Vali-Data of WNY, LLC on March 20, 2020. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines (SOP NO. HW-31, revision 6). The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Initial Calibration.

All results were recorded to the reporting limits.

All samples except OA-1 (041619) were diluted due to high target analyte concentrations.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met except the concentration of the second internal standard was recorded incorrectly on the raw data. The correct concentration was recorded and used throughout the rest of the report, so no further action is required.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met except Styrene was detected in IA-3 (041619) but was not detected in IA-3 (041619)DUP. Tetrachloroethene was detected in IA-3 (041619) but was not detected in IA-3 (041619)DUP in the TO-15SIM analysis.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD/DUPLICATE

All criteria were met for the duplicates.

No MS/MSD was acquired.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except the %RSD of Benzyl chloride was outside QC limits in the initial calibration performed on instrument AIRLAB15 on 3/27/19. This target analyte should be qualified as estimated in the associated blanks, spikes and samples.

CONTINUING CALIBRATION

All criteria were met.

GC/MS PERFORMANCE CHECK

All criteria were met.

CANISTER CERTIFICATION BLANKS

All criteria were met.

Data Usability Summary Report

Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

166 Chandler St.
SDG#L2016426
April 29, 2020
Sampling date: 4/20/2020

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

166 Chandler St.
SDG# L2016426

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Hazard Evaluations, Inc., project located at 166 Chandler St., Alpha Analytical, #L2016426 submitted to Vali-Data of WNY, LLC on April 28, 2020. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines (SOP NO. HW-31, revision 6). The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Holding Times, Laboratory Control Samples and Continuing Calibration.

All results were recorded to the reporting limits.

Samples: IA-1(042020), IA-2(042020), IA-4(042020) and IA-3(042020), were diluted due to high target analyte concentrations in TO15-LL. IA-3(042020)DUPLICATE was not diluted due to the concentration of target analytes falling within calibration range.

166 Chandler St.

SDG# L2016426

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met except the final pressure of IA-3(042020)DUPLICATE and IA-4(042020) was 0 upon receipt. Target analytes in these samples should be qualified as estimated.

INTERNAL STANDARD (IS)

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met except Cyclohexane was detected in IA-3(042020) but was not detected in IA-3(042020)DUPLICATE. Ethyl benzene was detected in IA-3(042020)DUPLICATE but was not detected in IA-3(042020).

LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Hexane, Benzyl chloride and 1,3-Dichlorobenene was outside QC limits, high in WG1363973-3. These target analytes were not monitored for in the associated samples so no further action is required.

MS/MSD/DUPLICATE

All criteria were met.

No MS/MSD was acquired.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met.

CONTINUING CALIBRATION

All criteria were met except the %D of Benzyl chloride and 1,3-Dichlorobenzene was outside QC limits in WG1363973-2. The %D of Hexachlorobutadiene was outside QC limits in WG1364368-2. These target analytes should be qualified as estimated in the associated samples, blanks and

166 Chandler St.

SDG# L2016426

spikes.

GC/MS PERFORMANCE CHECK

All criteria were met.

CANISTER CERTIFICATION BLANKS

All criteria were met.

APPENDIX G

EQUIS DATA SUBMITTAL CONFIRMATIONS

Mallory Behlmaier

From: Mallory Behlmaier <mbehlmaier@hazardevaluations.com>
Sent: Wednesday, April 8, 2020 3:38 PM
To: NYENVDATA@dec.ny.gov
Subject: Electronic Data Deliverable Submission - C915320
Attachments: 20200408 1530.C915320.NYSDEC_MERGE.zip

Please find attached one zip file containing one data set for BCP Site C915320 – 166 Chandler Street Site.

Thank you,
Mallory

Mallory Behlmaier, Environmental Scientist
Hazard Evaluations, Inc.
3636 N. Buffalo Road
Orchard Park, NY 14127
Phone (716) 667-3130 ext. 116
Fax (716) 667-3156

mbehlmaier@hazardevaluations.com
www.hazardevaluations.com

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Mallory Behlmaier <mbehlmaier@envadvantage.com>

4/30/2020 3:08 PM

Electronic Data Deliverable - C915320 SDG #L2016426

To nyenvdata@dec.ny.gov Copy megan.kuczka@dec.ny.gov • C. Mark Hanna <mhanna@envadvantage.com>

Aaron,

Please find attached one zip file containing the following data set for BCP Site C915320 – 166 Chandler Street Site L2016426

Thank you,
Mallory

Mallory Behlmaier, Environmental Scientist
Environmental Advantage, Inc.
3636 N. Buffalo Road
Orchard Park, NY 14127
Phone (716) 667-3130 ext. 116
Fax (716) 667-3156
mbehlmaier@envadvantage.com
www.envadvantage.com

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- 20200430 1452.C915320.NYSDEC_MERGE.zip (20 KB)