MARCH 2022 SOIL VAPOR INTRUSION INVESTIGATION REPORT

Prepared for:

Pierce Arrow Business Center
155-157 Chandler Street
Buffalo, New York 14203

NYSDEC Site Number: C915312

Prepared by:

Environmental Advantage, Inc.
3636 North Buffalo Road
Orchard Park, New York 14127
(716) 667-3130

August 10, 2022

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 Project Background 1
1.2 Site Background 1
1.3 Site Remedial History 2
1.4 Summary of Previous Vapor Intrusion Monitoring 4
2.0 RECENT SOIL VAPOR INTRUSION INVESTIGATIONS 7
2.1 Introduction 7
2.2 Soil Vapor Intrusion Investigation - March 2022 7
2.2.1 Building Survey 8
2.2.2 Site Preparation 8
2.3 Vapor Sampling 8
2.3.1 Sub-Slab 9
2.3.2 Ambient Indoor Air 9
2.3.3 Ambient Outdoor Air 9
2.4 Vapor Intrusion Analyitical Results 9
2.5 Vapor Intrusion Sample Decision Matricies 11
2.6 Data Usability Summary 12
3.0 PROPOSED CORRECTIVE MEASURES 13

APPENDICIES
Appendix A Figures
Appendix B Tables
Appendix C Site Sheets and Building Survey
Appendix D Laboratory Analytical Report
Appendix E Photographs
Appendix F Data Usability Summary Report

FIGURES
Figure 1 Site Location Map
Figure 2 Site Limits & Remedial Investigation Locations
Figure 3 Sub-Slab Mitigation Design & SMP Compliance Indoor Air Sampling Locations
Figure 4 Historical Indoor Air Sampling Locations & March 2022 Soil Vapor Intrusion Investigation Sampling Locations
Figure 5 March 2022 Soil Vapor Intrusion Investigation & Post Vent Installation Sample Locations
Figure 6 Proposed Additional Soil Vapor Intrusion Investigation Sample Locations

TABLES
Table 1 Soil Vapor Intrusion Analytical Testing Results (September 2017)
Table 2 Soil Vapor Intrusion Decision Matrices – September 2017
Table 3 Historical Indoor Air Analytical Testing Results – December 2018 – December 2021
Table 4 March 2022 Soil Vapor Intrusion Investigation Analytical Testing Results
Table 5 March 2022 Soil Vapor Intrusion Investigation Decision Matrices

1.0 INTRODUCTION

1.1 Project Background

Environmental Advantage, Inc. (EA), on behalf of R&M Leasing, LLC (R&M), and in accordance with the SVI Investigation Work Plan that was submitted to the New York State Department of Environmental Conservation (NYSDEC or "Department") and approved on April 1, 2022[1], completed a Soil Vapor Intrusion (SVI) investigation at the Pierce Arrow Business Center (PABC) facility located at 155-157 Chandler Street in the City of Buffalo, New York (Site), as shown on Figure 1, located in Appendix A. The owner of the property, R&M Leasing, completed a Brownfield Cleanup Program (BCP) Track 2 Cleanup at the site with a Certificate of Completion (COC) issued on December 27, 2017[2]. The SVI investigation was completed in general accordance with NYSDEC DER-10 guidelines and New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in New York State[3]" document. This SVI investigation was focused on indoor and sub-slab conditions beneath the area of the building currently occupied by Buffalo Cider Hall, where air monitoring completed in accordance with the Department-approved Site Management Plan (SMP)[4], has indicated trichloroethene (TCE) concentrations in the indoor air in exceedance of the NYSDOH Air Guideline Values (AGV). This SVI Report provides details on the analytical results from this initial investigation in the area described above. **Please Note**: the investigation was completed on March 28, 2022 after a telephone discussion with a NYSDEC representative, just prior to the end of the NYSDOH defined heating season (March 31). The finalized SVI Work Plan was subsequently approved by the Department representative assigned to the Site in April 1, 2022. Based on the results of the investigation detailed below, further investigation is needed.

This SVI Investigation Draft Report is not a monitoring report for SMP compliance, as the areas subject to the SVI investigation are not associated with the current Engineering Controls (EC's) operating at the Site, and initial Remedial Investigation (RI) and Interim Remedial Measure (IRM) work did not identify any concerns in the area(s) subject to this investigation. This Draft Report presents an initial completed scope of work to investigate a source of SVI that either was not identified during RI/IRM work, or that has presented itself as a result of completed building development or completed development of neighboring parcels.

1.2 Site Background

The PABC Property ("Site") is an approximately 2.35 acre property located at 155-157 Chandler Street in the City of Buffalo, Erie County, New York. Site boundaries

1 "Soil Vapor Intrusion Investigation Work Plan for Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, NY" prepared by Environmental Advantage, Inc., and submitted to the Department on March 15, 2022. Approved by the Department post-investigation on April 1, 2022.
2 New York State Department of Environmental Conservation, "Certificate of Completion for the Pierce Arrow Business Center", dated December 27, 2017
3 "Guidance for Evaluating Soil Vapor Intrusion in New York State" prepared by NYSDOH, October 2006, updated May 2017.
4 "Pierce Arrow Business Center, 155-157 Chandler, Erie County, Buffalo, New York, Site Management Plan, NYSDEC Site Number: C915312", prepared by Hazard Evaluations, Inc., and Schenne & Associates, dated December 14, 2017.

are illustrated in Figure 2. The Site consists of an approximate 65,000-square foot building, 22,000-square foot courtyard within the central area of the building and an approximate 0.39 acre parking lot area directly east of the Site building. 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.

The Site building was originally constructed in 1907 and utilized as a factory occupied by Linde Air Products until the early 1950s. Bell Aircraft Corp. occupied the Site in the early/mid 1950s, before it was purchased by Donald Rosen in 1958, who utilized the property for G & R Machinery (machine shop). The Site was purchased by Ontario Equipment Co. in 2005, and by R&M Leasing, LLC in February 2017. Development at the Site was completed in 2018. The building is currently occupied by the following tenants: Utilant, LLC, Blackbird Cidery Buffalo Cider Hall, Barrel and Brine Kombucha, ODL Orthodontic Lab, Anderson Tax Services, and four (4) luxury second floor loft apartments.

1.3 Site Remedial History

Brownfield Cleanup Agreement (BCA Index No. C915312-02-17) was executed on April 24, 2017 for the Site, identified as Site No. C915312. Hazard Evaluations Inc. (HEI) in association with Schenne & Associates (S&A) completed RI and IRM activities concurrently, in order to remediate the on-site concerns. RI and IRM work completed at the Site was detailed in the Site's Final Remedial Investigation-Interim Remedial Measures-Alternative Analysis Report (RI-IRM-AAR)[5] and Final Engineering Report (FER)[6]. Below is an abridged summary of the Site remedial history relating to SVI and chlorinated volatile organic compound (CVOC) contamination.

SVI Assessment

During the initial SVI Assessment completed in September 2017 as part of the RI, vapor intrusion air samples were analyzed from five (5) sub-slab locations and six (6) ambient indoor air locations throughout the building, as well as one (1) ambient outdoor location. TCE was detected in three of the sub-slab samples at concentrations ranging from 2.2 ug/m^3 at SS-2 to 3,500 ug/m^3 at SS-4. TCE was also detected at the indoor samples at concentrations ranging from 0.27 ug/m^3 at IA-3 to 1.7 ug/m^3 at IA-4. However, all indoor air sample results for TCE were below the NYSDOH AGV of 2 ug/m^3. The decision matrices from the updated NYSDOH SVI guidance indicated "no further action" for locations SS-1/IA-1, SS-2/IA-2, SS-5/IA-5 and SS-6/IA-6. However, based on the TCE concentration of 730 ug/m^3 and 3500 ug/m^3 in the sub-slab samples from SS-3 and SS-4, respectively, decision matrix A indicated these locations/areas would require mitigation. Other CVOCs were detected during the initial SVI Assessment at low levels; however, only TCE required mitigation. Post-COC, TCE has

5 "Final Remedial Investigation-Interim Remedial Measures-Alternative Analysis Report; Brownfield Cleanup Program For Pierce Arrow Business Center; 155-157 Chandler, Buffalo, New York, 14207; BCP # C915312", prepared by Hazard Evaluations, Inc., and Schenne & Associates, December 5, 2017.

6 "Final Engineering Report; Brownfield Cleanup Program for Pierce Arrow Business Center, 155-157 Chandler, Buffalo, New York 14207; BCP # C915312" prepared by Hazard Evaluations, Inc., and Schenne & Associates, December 2017.

been the only identified chlorinated contaminant of concern associated with recent sampling[7]. The results of the initial SVI Assessment and SVI sampling decision matrices utilized during the RI/IRM is included as Table 1 and Table 2, respectively, located in Appendix B. Sample locations are illustrated on Figure 2 and Figure 3.

As a result of the September 2017 SVI Assessment, a sub-slab depressurization (SSD) system was installed in the southwestern portion of the site in proximity to SS-3/AI-3 and SS-4/AI-4 sample locations, as shown in Figure 3. The SSD system was installed in November 2017, with a system start date of November 8, 2017, in response to the recommendations of the NYSDOH decision matrices. After installation in 2017, the SSD system remained inactive until late fall 2018 while the building was unoccupied and being developed. The full summary (including applicable laboratory analytical reports) of the original SVI Assessment and SSD system installation are included in the Site's FER and SMP.

A review of the historical remedial data associated with the areas where TCE has been detected in the indoor air in exceedance of the NYSDOH AGV (in the vicinity of IA-6, IA-7 and IA-8); reveal no pre- or post-Interim Remedial Measure (IRM) soil or groundwater concentrations of TCE or any other NYSDOH priority CVOC[8]. TCE was non-detect in all interior monitoring wells with the exception of SB128/MW-4 where TCE was detected at an estimated concentration of 0.23 ug/l. No other CVOCs were detected in any of the interior monitoring wells. TCE has not been detected in the only remaining monitoring well post-IRM activities, MW-3 located upgradient in the parking lot area. Interior soil samples collected during the RI exhibited trivial levels of TCE and other CVOCs with the exception of the SB 135 location (vicinity of SS-5/IA-5), which exhibited a TCE concentration of 1.3 mg/kg in exceedance of the Unrestricted Use SCO (UUSCO). The area around SB 135 was excavated and removed during IRM activities. Interior remedial investigation locations are illustrated on Figure 2.

Confirmatory samples collected in the courtyard area post-IRM activities exhibited very low levels of TCE and other CVOCs with the exception of CY-CS-1, which exhibited a TCE concentration of 1.1 mg/kg in exceedance of the UUSCO. However, the concentration of TCE at the CY-CS-1 location was well within the Residential Use SCO (RUSCO) of 10 mg/kg. Furthermore, courtyard confirmatory sample locations related to the Fuel Oil Tank removed directly adjacent to the building foundation outside of Buffalo Cider Hall and in the immediate vicinity of CY-CS-1, exhibited TCE concentrations of 0.036 mg/kg, 0.023mg/kg, and 0.0014 mg/kg. Courtyard confirmatory sample locations around the perimeter of the historical chimney

7 Carbon Tetrachloride was detected at concentrations of 41 ug/m3 and 0.63 ug/m3 at the SS-3/IA-3 locations and 23 ug/m3 and 0.57 ug/m3 at the SS-4/IA-4 locations. According to Matrix A the recommended action is to "monitor". Post SSD systems operation, Carbon Tetrachloride has remained <1 ug/m3 at both SS_3/IA-3 and SS-4/IA-4 locations. Methylene Chloride was detected at concentrations of 2.6 ug/m3 and 150 ug/m3 at the at the SS-4/IA-4 location. According to Matrix B the recommended action is to "Identify Source(s) and Resample or Mitigate". Post SSD systems operation, Methylene Chloride has remained non-detect at the SS-4/IA-4 location.

8 Priority CVOCs include those listed on the decisions matrices, specifically: Matrix A- Trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), 1,1-dichloroethene (11-DCE), and Carbon Tetrachloride (CT); Matrix B - Tetrachloroethene (PCE), 1,1,1-trichloroethane (111-TCA), and Methylene Chloride; and Matrix C - Vinyl Chloride (VC)

stack also located directly adjacent to the building foundation outside of Buffalo Cider Hall exhibited TCE concentrations of 0.05 mg/kg and 0.00074 mg/kg.

1.4 Summary of Previous Vapor Intrusion Monitoring

Below is an abridged summary of the SVI monitoring completed at the Site since the issuance of the COC as reported in the Site's annual Periodic Review Reports (PRR's)[9] as required by the Site SMP. Full summaries (including applicable laboratory analytical reports) of the post-SSD installation sampling and annual Indoor/Outdoor Air sampling, can be found in the Department approved PRR's from 2018-2019, 2019-2020, and 2020-2021. Monitoring results for sampling locations identified as IA-1, IA-2, IA-3, and IA-4 are not discussed in this report due to continued compliant results post-SSD system installation. Monitoring results for sampling location IA-5 are briefly discussed as this location exhibited early non-compliant results due to SSD system malfunction.

During annual system monitoring and sampling events, summa air canister samples are collected at six (6) indoor locations and one (1) outdoor location as shown on Figure 3 and Figure 4. Air samples are collected over an 8-hour period and submitted to Alpha Analytical Laboratories to be analyzed for the presence of volatile organic compounds (VOCs) via USEPA method TO-15. Annual monitoring samples are collected during the 'heating season' as defined by NYSDOH (November 15th to March 31st), and have been collected on December 18, 2018, December 12, 2019, December 11, 2020, and December 2, 2021. When annual sampling exhibits a non-compliant result, follow up inspections and monitoring is completed as necessary. Follow up samples have been collected on February 13, 2019, June 21, 2019 at the IA-5 location and on February 20, 2020, February 18, 2021, March 31, 2021, and June 11, 2021 at the IA-6 location. Analytical results of all air sampling completed at the Site since SSDS installation are summarized on Table 3.

During the initial post-SSD system monitoring and sampling event in December 2018, SSDS-1, SSDS-2, and SSDS-3 were not operating. According to the property manager at the time, the three SSDS locations had been turned off during interior construction activities due to access issues. SSDS-4 was operating at the time of the inspection. Interior construction activities included a new floor, consisting of new #1 stone, vapor barrier, and six-inches of new concrete throughout the entire building. The concrete floor was finished with a sealer and was completed at the time of the inspection. Interior development was completed in some tenant spaces, but still under way in others. Exterior development work and windows were still being installed. The building was unoccupied at this time. TCE was detected at a concentration of 9.46 ug/m^3 in the indoor air sample identified as IA-5. This concentration exceeds the NYSDOH AGV of 2 ug/m^3. As noted above, the SSDSs were not all operational at time of sample collection.

9 "Periodic Review Report – April 2019; DEC Site #C911532", prepared by Hazard Evaluations, Inc., dated May 31, 2019; Periodic Review Report – April 2020; DEC Site #C911532", prepared by Hazard Evaluations, Inc., dated April 30, 2020; Periodic Review Report – April 2021 – Revised; DEC Site #C911532", prepared by Environmental Advantage, Inc., dated July 16, 2021.

During a follow up site inspection in February 2019, SSDS-1, SSDS-2, and SSDS-4 were operating as designed, SSDS-3 was operational, however the property manager indicated the fan would work intermittently. A follow up indoor air sample was collected at the original IA-5 sample location to assess if indoor air concentrations of TCE had been reduced with operation of the SSD systems. TCE was detected at a concentration of 4.54 ug/m^3 at the IA- 5 location, which exceeds the NYSDOH AGV of 2 ug/m^3. As noted above, SSDS-3 was operational; however, the property manager indicated the fan would work intermittently. An additional follow up site inspection due to the exceedance at the IA-5 location was completed in June 2019. At the time of the inspection, all four SSD systems appeared to be functioning properly, as positive pressure differential readings were recorded. A follow up indoor air sample was collected at the original IA-5 sample location assess if indoor air concentrations of TCE had been reduced with proper operation of all four SSD systems. TCE was detected at a concentration of 0.903 ug/m^3, which is below the NYSDOH AGV of 2 ug/m^3. The property manager indicated that prior to April 26, 2019, the SSDS-3 fan had been replaced due to intermittent malfunction and the SSDS-4 fan had been replaced due to occasional malfunction as reported by the site tenant.

As per the monitoring and sampling requirements listed in the Site's SMP, a second annual Site-wide inspection and air sampling event was completed by HEI in December 2019. The four SSD systems appeared to be functioning properly at the time of the inspection, as positive pressure differential readings were recorded. TCE was detected at a concentration of 12.0 ug/m^3 at the IA-6 location, which exceeds the NYSDOH AGV of 2 ug/m^3. Carbon tetrachloride was also detected at the IA-6 location above its respective commercial indoor air background level[10]. As a result of this December 2019 exceedance, EA collected a follow up sample from this location in February 2020. TCE was detected at a concentration of 1.34 ug/m^3, which is below the NYSDOH AGV of 2 ug/m^3. The four SSD systems appeared to be functioning properly at the time of the February 2020 inspection.

The third annual SMP required Site-wide inspection and air sampling event was completed by EA in December 2020. The four SSD systems appeared to be functioning properly at the time of the inspection, as positive pressure differential readings were recorded. TCE was detected at a concentration of 2.96 ug/m^3 at the IA-6 location, which exceeds its respective NYSDOH AGV value of 2 ug/m^3. As a result of this December 2020 exceedance, EA collected a follow up indoor air sample from this location in February 2021. TCE was again detected at a concentration of 2.96 ug/m^3 at IA-6. The four SSD systems appeared to be functioning properly at the time of the February 2021 inspection.

Due to the NYSDOH AGV exceedances for TCE at the IA-6 location as discussed above, EA contacted the Site Owner, Mr. Rocco Termini, and recommended that the location of IA-6, which is an unoccupied pass-through hallway containing mailboxes, be better ventilated. On March 26, 2021, Mr. Termini had a ceiling exhaust

10USEPA 2001: Building Assessment and Survey Evaluation (BASE) Database as incorporated into the "Guidance for Evaluating Soil Vapor Intrusion in the State of New York".

fan installed within the hallway in an attempt to improve ventilation. Following the installation of the exhaust fan, EA collected an additional follow up indoor air sample from this location on March 31, 2021. TCE was detected at a concentration of 14 ug/m^3, which exceeds both its respective NYSDOH AGV of 2 ug/m^3.

In consideration of the March 2021 results, EA surmised that the more elevated results observed at the IA-6 location may be related to the ceiling fan creating a negative pressure within the hallway, even though there is no historical record of any underlying sub-slab TCE contamination in this area of the facility based on the pre-design sampling results collected in September 2017. For strictly test protocol purposes, EA collected an air sample at the IA-6 location on June 17, 2021, with the two man-door entrances to the pass-through hallway propped open approximately one inch each to allow the infiltration of fresh outdoor air. TCE was detected at a concentration of 1.31 ug/m^3, which is below its respective NYSDOH AGV of 2 ug/m^3. Based on these results, Mr. Termini proposed to install two approximate 10-inch by 12-inch passive vents within each of the man-door entrances to allow the infiltration of fresh outdoor air which was proposed to the Department in the July 16, 2021 Summary Letter – June 2021 Indoor Air Sampling Results[11] letter report. The Department approved the passive door vent installation remedy and requested additional air sampling post-installation as detailed in the August 4, 2021 Periodic Review Report & June 2021 Indoor Air Sampling Results Response Letter[12]. Passive vent installation was completed in the mailroom (location of IA-6) at the end of October 2021 by building maintenance.

In early December 2021, the fourth annual SMP required Site-wide inspection and air sampling event was completed by EA. At the direction of the NYSDEC[4], post passive vent installation indoor air samples were collected as well at this time from two rooms adjacent to the mail room (location of IA-6) designated as IA-7 and IA-8. Post-vent installation yielded acceptable results at the IA-6 location as had been anticipated with TCE detected at a concentration of 1.73 ug/m^3, which is below its respective NYSDOH AGV of 2 ug/m^3, however, TCE was detected at a concentration of 17.5 ug/m^3 at the IA-7 location and 18.0 ug/m^3 at the IA-8 location. IA-7 is located in the southern adjacent room (from the IA-6 location) which is currently part of Buffalo Cider Hall and is utilized for storage of kegs, dry goods, and other restaurant supplies, and IA-8 is located in the eastern adjacent room which is currently also part of Buffalo Cider Hall and is currently utilized for restaurant seating. An open doorway is located between where IA-7 and IA-8 are located. The location of the additional indoor air samples collected is illustrated in Figure 4. A summary of the historical and most recent December 2021 air sampling results is included in Table 3.

11 "Summary Letter – June 2021 Indoor Air Sampling Results" prepared by Environmental Advantage, Inc., July 2021.
12 "Site Management (SM) – Periodic Review Report (PRR) & June 2021 Indoor Air Sampling Results Response Letter" prepared by Megan Kuczka of NYSDEC, August 4, 2021.

The results of the December 2021 monitoring and sampling event were provided to the Department in a summary letter[13] in which EA presented the following:

> *According to the NYSDOH Soil Vapor/Indoor Air Matrix A, 2017 update[14], the appropriate action with a sub-slab concentration of less than 6 ug/m^3 with an accompanying indoor air concentration of 1 ug/m^3 and above for TCE is to "identify source(s) and resample or mitigate". Further investigation into the source of the TCE in this area of the building is warranted. The next step is to complete sub-slab air sampling accompanied by corresponding indoor air sampling to identify if there is an unidentified source area that was either not previously investigated, or if building development may have created a [preferential] pathway for sub-slab vapors which was not present during [the] pre-SSDS design soil vapor intrusion (SVI) assessment.*

The Department responded in a letter dated February 23, 2022, requesting the submittal of a work plan[15]. The ensuing investigation was completed on March 28, 2022, prior to the end of the NYSDOH defined heating season.

2.0 RECENT SOIL VAPOR INTRUSION INVESTIGATIONS

2.1 Introduction

In December 2021, TCE was detected at two (2) indoor sample locations at concentrations ranging from 17.5 ug/m^3 at IA-7 to 18.0 ug/m^3 at IA-8. Historical sub-slab vapor samples collected in the immediate vicinity of this area exhibited non-detected concentrations of TCE, and no further action was recommended for all NYSDOH target CVOCs during RI/IRM activities. Based on the December 2021 indoor air TCE concentrations listed above, decision matrix A of the 2017 update of the NYSDOH SVI guidance recommend to identify source(s) and resample or mitigate. The SVI investigation scope of work as detailed in the March 2022 Work Plan included investigation for potential site contaminants in the sub-slab vapor, indoor ambient air, and outdoor ambient air at the Site, in the vicinity of IA-7 and IA-8. The scope of work included three (3) sub-slab vapor, three (3) indoor ambient air sample locations, and one (1) outdoor ambient air location. Specific sub-slab locations were selected at the time of the investigation based on the Site inspection and accessibility; sampling locations are included on Figure 4 and further described below.

2.2 Soil Vapor Intrusion Investigation – March 2022

Sub-slab and indoor air samples were collected in the vicinity of the two previously identified indoor air locations, IA-7 and IA-8. Specifically, at the previous IA-7

13 "Summary Letter – Post Passive Vent Installation Indoor Air Sampling Results. Revised", prepared by Environmental Advantage, Inc., dated February 17, 2022.
14 "Guidance for Evaluating Soil Vapor Intrusion in New York State" prepared by NYSDOH, October 2006, updated May 2017.
15 "Site Management (SM) – Post Passive Vent Installation Indoor Air Sampling Results Response Letter" prepared by Megan Kuczka of NYSDEC, February 23, 2022.

location one (1) sub-slab vapor and corresponding indoor air sample location was completed, adjacent to the previous IA-8 location, in the adjacent room, one (1) sub-slab vapor and corresponding indoor air sample location was completed in an identified below grade area identified as the “basement” area on Site design plans, and a third sub-slab vapor and corresponding indoor air sample location was completed in the bar area of the Buffalo Cider Hall. Due to a large floor drain located in the immediate vicinity of the previous IA-8 location, a sub-slab vapor and corresponding indoor air sample location was not recommended in this area in accordance with Section 2.7.2. of the NYSDOH SVI Guidance document. Sampling locations are shown on Figure 4.

2.2.1 Building Survey

An inspection of the existing on-site facility and product inventory was conducted to assess the current conditions in proposed sampling areas and determine the likelihood of existing chemicals of concern that may be present that could influence the vapor test results. A pre-calibrated photoionization detector (PID) was used to monitor indoor air and scan vapors of individual containers that were present. During the building survey, the following products were identified and scanned with a PID:

- 3 gallons of wall paint near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 quart Acetone near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 quart furniture refinisher near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 quart stripper near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 quart brush cleaner near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 quart wood cleaner near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 can stain near SS-7(032922) and IA-7(032922): 0.0ppm,
- 1 gallon bleach in the kitchen area: 0.0ppm,
- 1 quart degreaser in the kitchen area: 0.0ppm,
- 18oz Carbon Off in the kitchen area: 0.0ppm,
- 1 gallon floor cleaner in the kitchen area: 0.0ppm.

Due to zero PID reading on all containers, no containers were removed prior to vapor sampling. The complete building survey is included in Appendix C.

2.2.2 Site Preparation

In accordance with NYSDOH recommendations, the HVAC system was confirmed to be activated during the investigation. In addition, EA sealed off individual rooms where air samples were taken in order to limit potential airflow from adjoining rooms. EA shut all doors and duct taped poly sheeting across entrances where there were no doors.

2.3 Vapor Sampling

Three types of air samples were collected, including sub-slab, ambient indoor air and ambient outdoor air samples, as follows:

2.3.1 Sub-Slab: EA installed three (3) temporary sub-slab sampling points at locations as shown on Figure 4. Samples were obtained through core-drilled holes into a competent portion of the concrete floor, away from cracks or drains. Clean, dedicated ¼-inch inside diameter polyethylene tubing was placed into the hole and care was taken to not extend the tubing further than 2-inches into the sub-slab material. The corehole annulus was then sealed at the floor surface with non-VOC containing modeling clay. Once it was determined that the sampling system was sealed, the sample probe and tube were purged of one to three volumes, and sampling was initiated.

EA immediately took PID readings through the corehole upon drilling through the sub-slab at each location. The results of the sub-slab PID screening are as follows:

- SS-9(032922) 0.0ppm,
- SS-10(032922) 15.0ppm,
- SS-7(032922) 1.0ppm.

Sub-slab vapor samples were collected using 2.7-liter capacity Summa canisters each fitted with a laboratory calibrated flow regulation devise to allow the collection of the soil gas sample over an 8-hour sample collection time.

2.3.2 Ambient Indoor Air: IA-9(032922) and IA-7(032922) ambient indoor air samples were collected concurrent with sub-slab sample locations SS-9(032922) and SS-7(032922), respectively, from approximately 3 to 4 feet above the slab floor as detailed in the NYSDOH SVI Guidance. The IA-10(032922) ambient indoor air sample was collected concurrent with the sub-slab sample location at the top of the "basement" stairs approximately 10 to 12 feet above the "basement" slab floor. IA-10(032922) was collected in what is known as the "event area" at Buffalo Cider Hall because this location is where human occupancy would be expected. The "basement" area is a stairwell that is walled off at the bottom and blocked off with a steel grate to prevent entrance to this area as it is not intended for human occupancy, however represents the lowest grade slab in the building. A total of 3 ambient indoor air samples were obtained. Samples were collected over an 8-hour collection period.

2.3.3 Ambient Outdoor Air: One ambient outdoor sample was collected at an upwind location from approximately 4 to 5 feet above the ground surface. The sample was located in the courtyard area, immediately outside of the Buffalo Cider Hall. The sample was collected over an 8-hour collection period.

All sampling and purging flow rates did not exceed 0.2 liters per minute. Photographs taken during the investigation are included in Appendix E.

2.4 Vapor Intrusion Analytical Results

Vapor intrusion air samples from three sub-slab locations, three ambient indoor air locations and one ambient outdoor location were submitted to Alpha Analytical Laboratories and analyzed for the presence of VOCs via EPA Method TO-15. Vapor

intrusion sample results are summarized on Table 4. The full analytical report is provided in Appendix D.

The NYSDOH SVI Guidance document lists specific air guideline values (AGV) for limited compounds as presented on Table 3.1 of the NYSDOH document. Table 3.1 applies to both indoor and outdoor ambient air; however NYSDOH does not have specific air guidelines for sub-slab vapor concentrations. The NYSDOH Guidance document also provides "background levels" of a more expanded list of compounds for outdoor air and indoor air within Appendix C of the guidance, Table C2, EPA 2001: Building Assessment and Survey Evaluation (BASE) Database. The 2001 EPA BASE survey consisted of a study of measured concentrations of VOCs from 100 randomly selected public and commercial buildings, however only represents office settings. The NYSDOH guidance indicates that the 90th percentile values from the USEPA BASE data for indoor air for office and commercial buildings can be considered for initial benchmark values, however where NYSDOH has published an air guideline value for a specific chemical, the air guideline value supersedes the values listed in the USEPA BASE data.

Based on reviews of toxicity data, risk assessments, and soil vapor intrusion data collected in New York State, the NYSDOH SVI Guidance document has received numerous updates. In September 2013, the air guideline value for tetrachloroethene in ambient air was lowered from 100 ug/m3 to 30 ug/m3 and the recommended immediate action level was lowered from 1,000 ug/m3 to 300 ug/m3. In August 2015, the air guideline value for trichloroethene in ambient air was lowered from 5 ug/m3 to 2 ug/m3 and a recommended immediate action level of 20 ug/m3 was developed. Additionally, in May 2017, NYSDOH updated the original 2006 Soil Vapor/Indoor Air Matrix 1 and Soil Vapor/Indoor Air Matrix 2 to three matrices, including Matrix A (trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), 1,1-dichloroethene (11-DCE), and carbon tetrachloride); Matrix B (tetrachloroethene (PCE), 1,1,1-trichloroethane (111-TCA), and methylene chloride); and Matrix C (vinyl chloride)[16].

A summary of the detected VOC concentrations applied to the updated decision matrices are included in Table 5. New York State currently does not have standards, criteria or guidance values for concentrations of VOCs in sub-slab vapor samples. The purpose of collecting sub-slab samples is to identify potential exposure scenarios associated with vapor intrusion. A summary of these results for sample location pairs is as follows:

- **SS-9(032922) (sub-slab)** – Twenty-five (25) compounds were detected above method detection limits. TCE was detected at a concentration of 7.09 ug/m^3.
  IA-9(032922) (indoor) – Sixteen (16) compounds were detected above method detection limits. Three (3) compounds were detected at levels which exceed the 90th percentile for indoor air including carbon tetrachloride, chloroform, and TCE.

[16] "Soil Vapor Intrusion Updates", New York State Department of Health website. https://health.ny.gov/environmental/indoors/vapor_intrusion/update.htm

TCE was detected at a concentration of 25.5 ug/m^3, which exceeds the NYSDOHAGV of 2 ug/m^3.

- **SS-10(032922) (sub-slab)** – Twenty-two (22) compounds were detected above method detection limits. TCE was detected at a concentration of 23.4 ug/m^3.
  IA-10(032922) (indoor) – Fourteen (14) compounds were detected above method detection limits. Four (4) compounds were detected at levels which exceed the 90th percentile for indoor air including carbon tetrachloride, chloroform, isopropanol, and TCE. TCE was detected at a concentration of 39.2 ug/m^3, which exceeds the NYSDOH AGV of 2 ug/m^3.

- **SS-7(032922) (sub-slab)** – Nineteen (19) compounds were detected above method detection limits. TCE was detected at a concentration of 8.92 ug/m^3.
  IA-7(032922) (indoor) – Thirteen (13) compounds were detected above method detection limits. Five (5) compounds were detected at levels which exceed the 90th percentile for indoor air including carbon tetrachloride, chloroform, isopropanol, ethanol, and TCE. TCE was detected at a concentration of 24.1 ug/m^3, which exceeds the NYSDOH AGV of 2 ug/m^3.
  .
- **OA-1(032922) (outdoor)** – Six (6) compounds were detected above method detection limits. No compounds were detected at a concentration above the 90th percentile for outdoor air.

2.5 Vapor Intrusion Sample Decision Matrix

NYSDOH developed decision matrices to provide guidance on a case-by-case basis about actions that should be taken to address current or potential exposures related to soil vapor intrusion. Actions recommended in the matrix are based on relationship between sub-slab vapor concentrations and corresponding indoor air concentrations, with considerations for outdoor air results. The compounds are currently assigned to three matrices, including:

Matrix A	Trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE),1,1-dichloroethene (11-DCE), and Carbon Tetrachloride (CT)
Matrix B	Tetrachloroethene (PCE), 1,1,1-trichloroethane (111-TCA), and Methylene Chloride
Matrix C	Vinyl Chloride (VC)

Analytical testing results for these compounds are presented in Table 5. EA reviewed the decision matrices for each compound. 1,1-DCE, 1,1,1-TCA, and VC were not detected and therefore no further action is needed with regard to these compounds.

TCE – TCE was detected in all three of the sub-slab samples at concentrations ranging from 7.09 ug/m^3 at SS-9(032922) to 23.4 ug/m^3 at SS-10(032922). TCE was also detected at all three indoor ambient air samples at concentrations ranging from 24.1 ug/m^3 at IA-7(032922) to 39.2 ug/m^3 at IA-10(032922). All

three indoor air sample results for TCE above the NYSDOH AGV of 2 ug/m^3. Decision matrix indicates these three locations/areas would require mitigation.

cis-DCE – cis-DCE was detected all three of the indoor air samples at concentrations ranging from 0.369 ug/m^3 at IA-7(032922) to 0.48 ug/m^3 at IA-10(032922); however, cis-DCE was not detected in the sub-slab air samples. The decision matrix from the NYSDOH guidance indicates that no further action is needed in this scenario.

Carbon Tetrachloride - Carbon tetrachloride was detected at all three sub-slab locations at concentrations ranging from 3.12 ug/m^3 at SS-7(032922) to 8.87 ug/m^3 at SS-9(032922) and all three indoor air samples at concentrations ranging from 3.96 ug/m^3 at IA-7(032922) to 8.05 ug/m^3 at IA-9(032922). Decision matrix indicates that SS-9/IA-9 locations/areas would require mitigation and SS-10/IA-10 and SS-7/IA-7 locations/areas would require to Identify Source(s) and Resample or Mitigate.

Methylene Chloride – Methylene Chloride (MC) was detected in one sub-slab air sample SS-9(032922) at a concentration of 1.99 ug/m^3. Methylene Chloride was not detected in any of the indoor air samples. The decision matrix from the NYSDOH guidance indicates that no further action is needed in this scenario.

PCE – PCE was detected in one sub-slab sample SS-9(032922) at a concentration of 1.45 ug/m^3. PCE was detected in all three indoor air samples at concentrations ranging from 0.305 ug/m^3 at IA-10(032922) to 0.610 ug/m^3 at IA-9(032922), all of which are below the NYSDOH AGV of 30 ug/m^3. The decision matrix from the NYSDOH guidance indicates that no further action is needed in these scenarios.

2.6 Data Usability Summary

The analytical data from the vapor/air samples collected in March 2022 were submitted for independent review, as requested by NYSDEC. Vali-Data of WNY, LLC, located in Fulton, New York, completed the data usability summary report (DUSR). The DUSR is provided 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. Ambient air and sub-slab vapor samples were collected as described above and were evaluated as described below:

Soil Vapor Intrusion Air Samples March 2022 – Alpha Lab Sample L2055692:

The results for three indoor air samples, three sub-slab air samples, and one outdoor air samples were processed for VOCs. In general, the samples were noted to be either usable or with minor qualifications. However, the following items were noted:

- The data are acceptable for use except where qualified below in Initial Calibration;
- Sample: DUSR ID#4 was diluted due to pressurization of the can;

- All results were recorded to the reporting limits; and
- All criteria were met except a target analyte (Acetone) was outside QC limits in the initial calibration verification off instrument, Airlab16. This target analyte should be qualified as estimated in the associated blanks, spikes and samples.

3.0 PROPOSED CORRECTIVE MEASURES

Upon receipt of the results from this SVI Investigation, the site owner and Engineer on record were immediately notified. Photographs taken during an initial Site visit in 2016 and remedial activities in 2018 were reviewed and a larger below-grade "basement" area was identified. Site architectural drawings were also reviewed, identifying two storage closet areas immediately adjacent to the Buffalo Cider Hall event area and mezzanine area. EA requested access to inspect the two "closet" areas identified on the architectural drawings and completed an inspection on April 26, 2022. During the inspection EA identified a storage area leased by ODL Orthodontic Lab that is located below grade, directly adjacent to where sub-slab sample SS-10(032922) was located. When selecting the original SVI Investigation sample locations, building management was questioned about the stairway located in the Buffalo Cider Hall event area at the time, and building management did not have any knowledge of where the stairwell formally terminated or why the area had been closed off. Photographs taken during the April 26, 2022 Site inspection are included in Appendix E.

In consideration of the March 27, 2022 analytical results, and with the new knowledge of the below-grade ODL storage area, EA recommended additional SVI sampling in effort to identify the source of the chlorinated hydrocarbons. A total of four sub-slab and corresponding indoor ambient air samples, one additional ambient indoor air sample, and two ambient outdoor air samples were recommended for the additional investigative effort at the following locations:

- One sub-slab and corresponding indoor ambient air sample in the below-grade ODL storage area adjacent to where previous SS-10(032922) was collected;
- One sub-slab and corresponding indoor ambient air sample in the Buffalo Cider Hall additional seating area and location of previous indoor air sample IA-8(120221);
- One sub-slab and corresponding indoor ambient air sample in the area known as the "event area" of the cidery, in the vicinity of where previous IA-10(032922) was collected, where the floor has visible cracks and filled-in historic drains; and
  One sub-slab and a corresponding indoor ambient air sample in the ODL tenant space, in the general vicinity of previous samples IA-5/SS-5.

During the initial SVI investigation completed in 2017, sample SS-5 was accidently destroyed by heavy equipment during building development activities. During the initial startup of the four currently operating SSD systems, there were initial exceedances of

the NYSDOH AGV for TCE in December 2018 and December 2019 at the IA-5 location at which time not all Site SSD systems were operating effectively[17].

Two additional outdoor ambient air samples were also proposed at the following locations:

- One on the Chandler Street side of the building directly adjacent to the entrance of the cidery and an additional sample collected from the roof top adjacent to the HVAC units that service the cidery area; and
- One additional indoor air ambient sample from the elevator shaft located directly outside of the cidery "event area". Building management was able to lock the elevator doors in an open position during sample collection with the sample tubing inserted into the void between the elevator car and hallway, so that any below grade vapors from the elevator shaft could be collected.

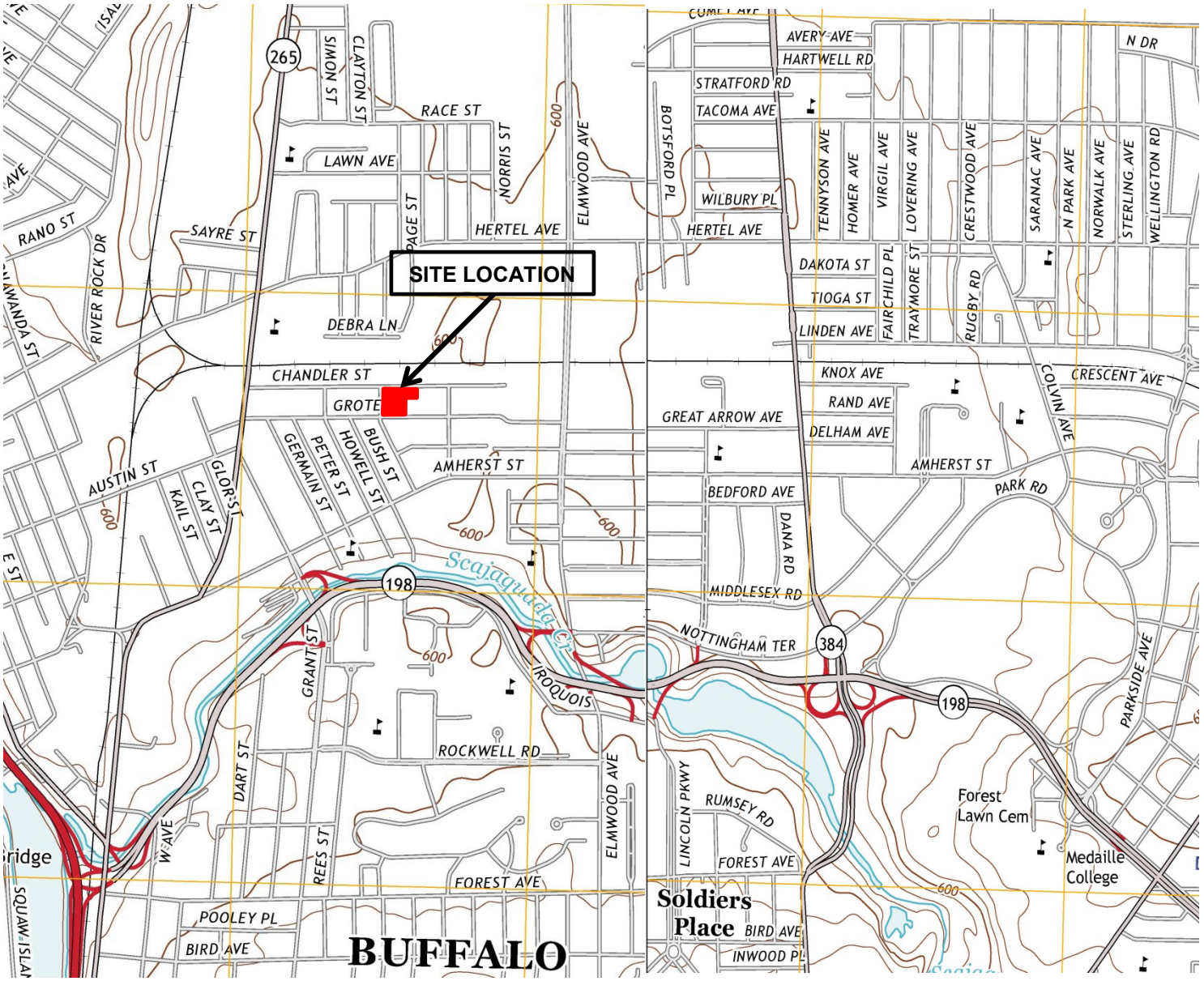
The procedures outlined in the March 2022 SVI Investigation Work Plan were followed for the additional sample collection, with the addition at the request of NYSDEC, that tracer gas be utilized in testing the sub-slab sample locations to ensure that a proper seal is in place around the tubing inserted into the sub-slab. The procedures outlined in Section 2.7.5 of the NYSDOH SVI Guidance document were followed. A diagram illustrating the proposed additional sample locations is included as Figure 6.

Results of the March 2022 SVI Investigation and the June 2022 additional sample collection will be reviewed by EA and the engineer on record to develop an appropriate plan of action to mitigate the vapor intrusion in this area. In the event that the proposed follow-up sampling identifies a potential source, corrective actions will be reassessed. A report of the findings of the additional sampling will be included in a Corrective Measures Work Plan for the Department's review and approval.

[17] As detailed in Section 1.4 above, during the initial post-SSD system monitoring and sampling event in December 2018, SSDS-1, SSDS-2, and SSDS-3 were not operating. During a follow up inspection in February 2019, the property manager indicated the fan at SSDS-3 would only work intermittently. Indoor air samples collected at the IA-5 location in both December 2018 and February 2019, detected TCE at a concentration exceeding the NYSDOH AGV of 2ug/m3. An additional follow up site inspection was completed in June 2019 when all four SSD systems were functioning properly. A follow up indoor air sample was collected in June 2019 exhibited TCE at concentrations within the NYSDOH AGV. There have been no further exceedances at the IA-5 location since.

APPENDIX A

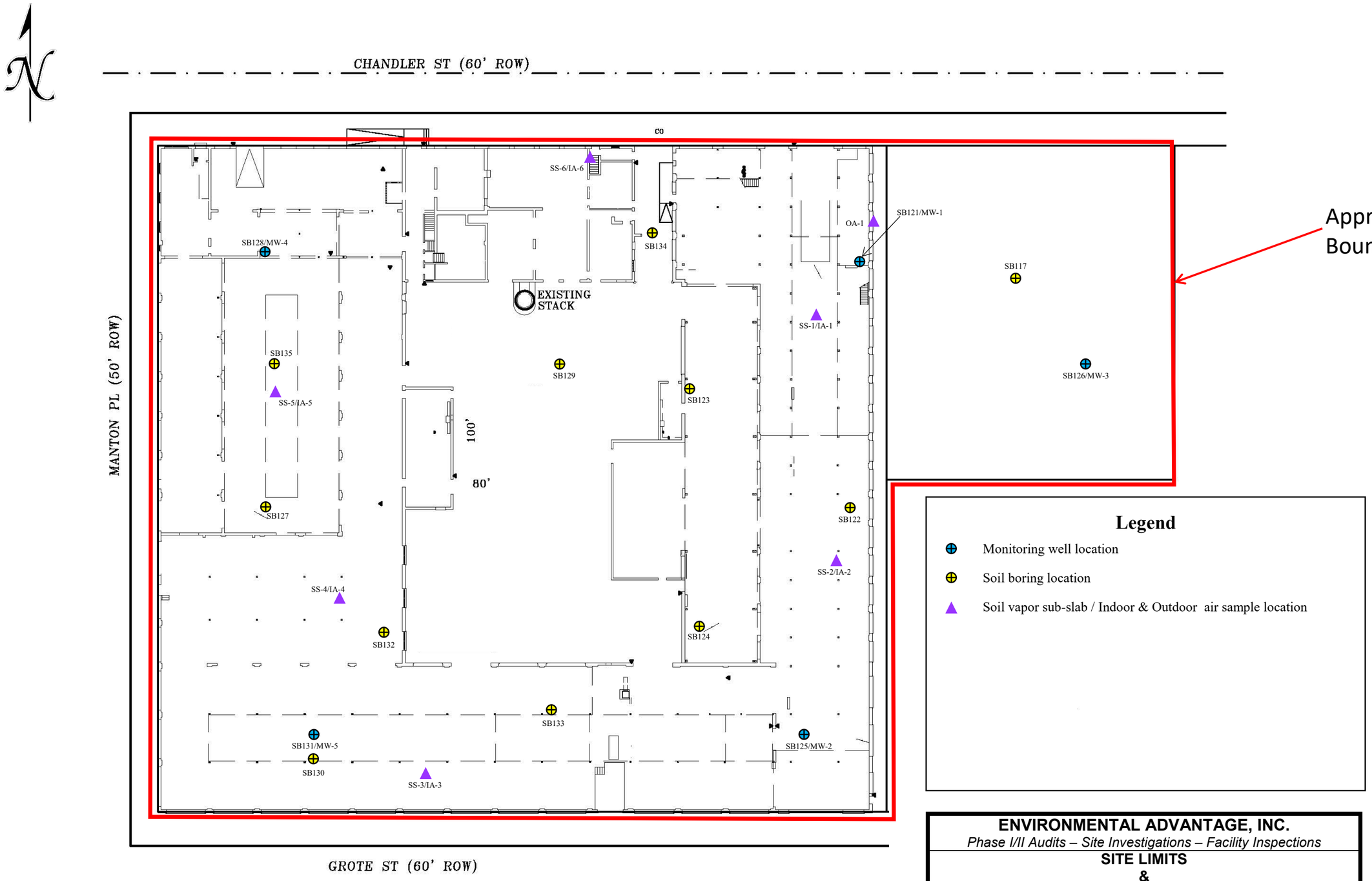
FIGURES



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

N

ENVIRONMENTAL ADVANTAGE, INC.		
Regulatory Compliance – Site Investigations – Facility Inspections		
LOCATION MAP 155 and 157 CHANDLER STREET BUFFALO, NEW YORK		
R & M LEASING LLC BUFFALO, NEW YORK		
DRAWN BY: JK	SCALE: NOT TO SCALE	PROJECT: 01101
CHECKED BY: MS	DATE: 03/22	FIGURE NO: 1



Legend

- Monitoring well location
- Soil boring location
- Soil vapor sub-slab / Indoor & Outdoor air sample location

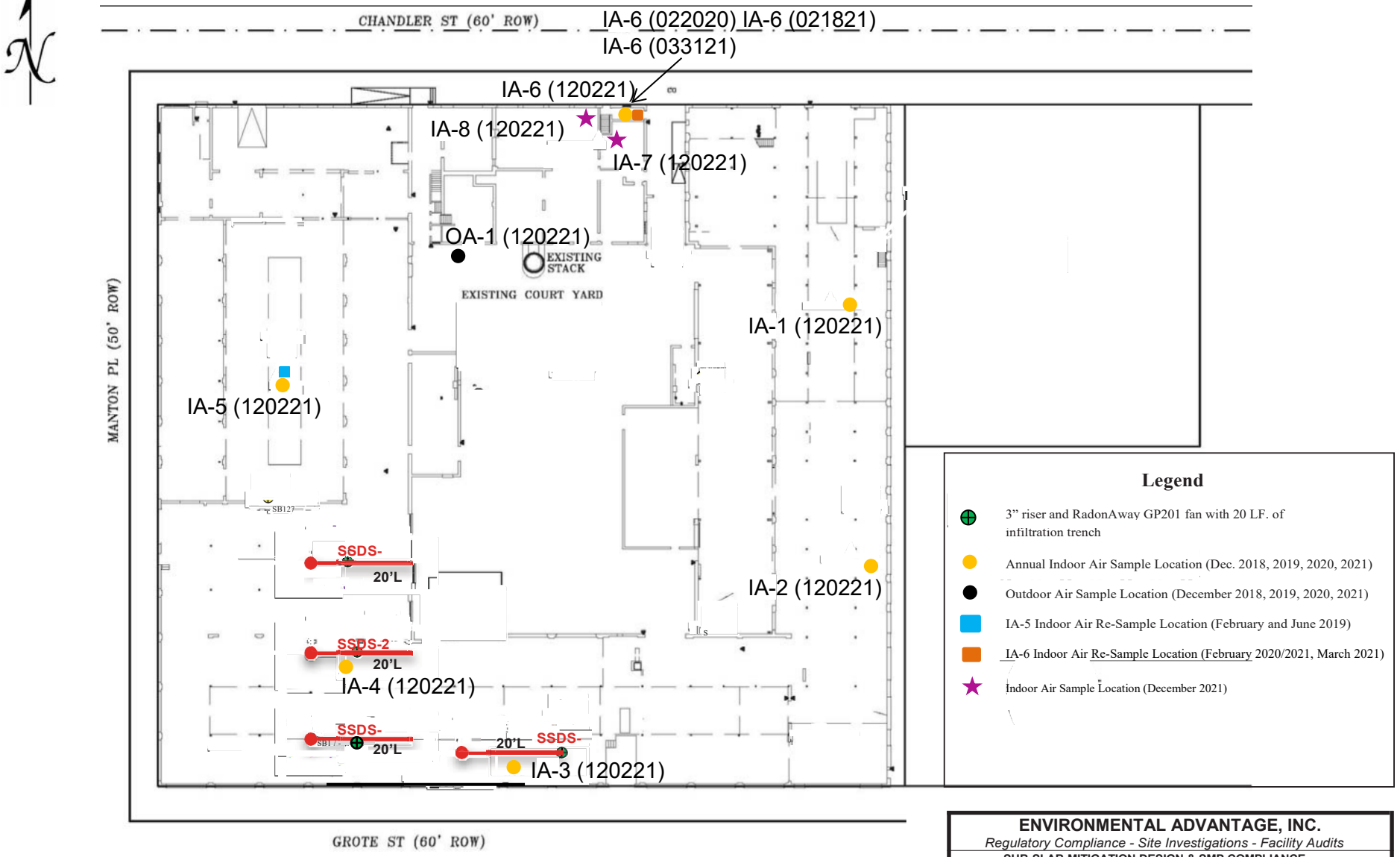
ENVIRONMENTAL ADVANTAGE, INC.

Phase I/II Audits – Site Investigations – Facility Inspections

SITE LIMITS
&
REMEDIAL INVESTIGATION LOCATIONS
155 and 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: SS/MS	SCALE: 1" = 40'	PROJECT: 01101
CHECKED BY: MMW	DATE: 03/22	FIGURE NO: 2

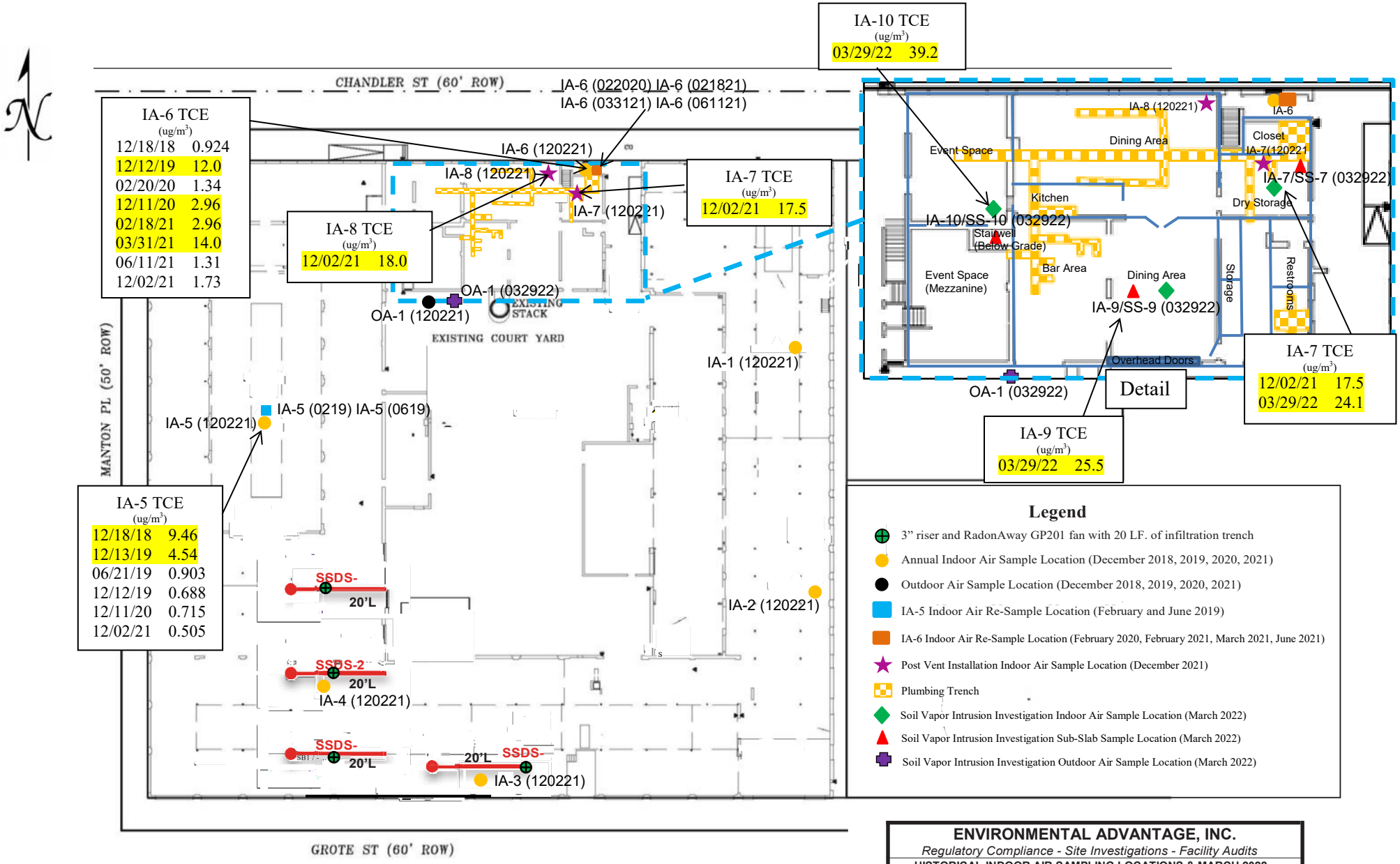


SUB-SLAB MIGRATION SYSTEM

N.T.S.

AS-BUILT

ENVIRONMENTAL ADVANTAGE, INC.		
Regulatory Compliance - Site Investigations - Facility Audits		
SUB-SLAB MITIGATION DESIGN & SMP COMPLIANCE **INDOOR AIR SAMPLING LOCATIONS** 155 and 157 CHANDLER STREET BUFFALO, NEW YORK		
R & M LEASING LLC BUFFALO, NEW YORK		
DRAWN BY: JK CHECKED BY: MS	SCALE: NOT TO SCALE DATE: 03/22	FIGURE 3



SUB-SLAB MIGRATION SYSTEM

N.T.S.

AS-BUILT

ENVIRONMENTAL ADVANTAGE, INC.

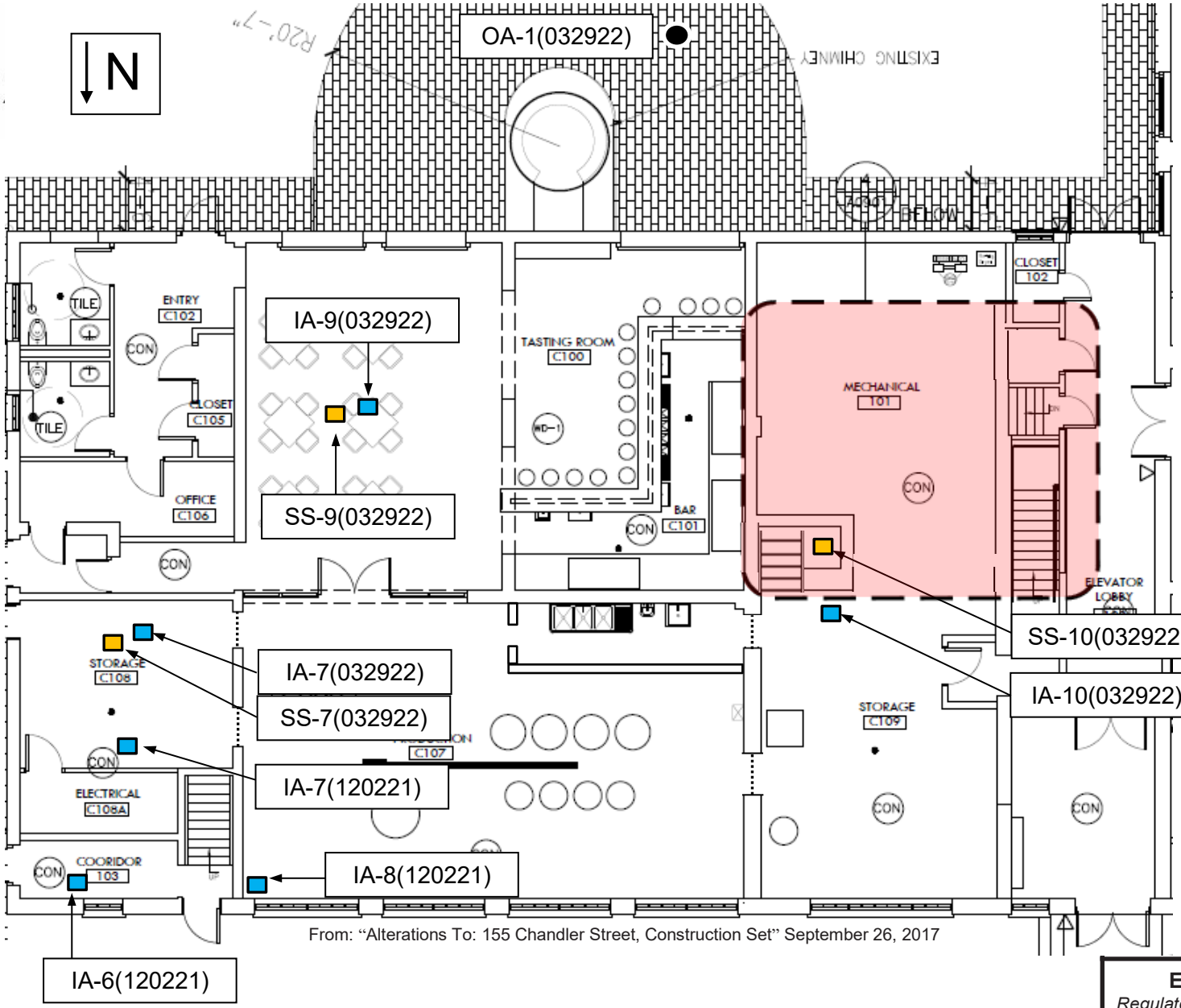
Regulatory Compliance - Site Investigations - Facility Audits

HISTORICAL INDOOR AIR SAMPLING LOCATIONS & MARCH 2022 SOIL VAPOR INTRUSION INVESTIGATION SAMPLING LOCATIONS

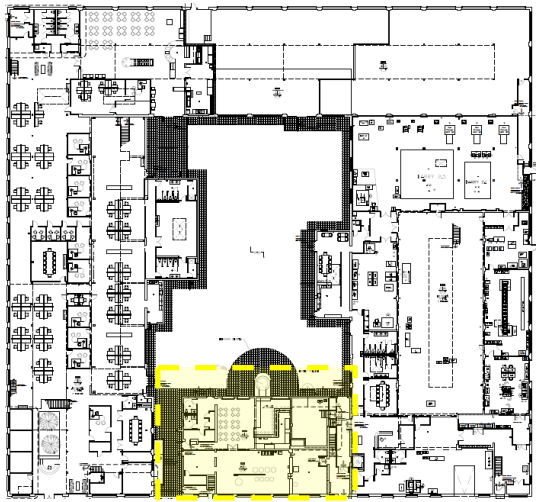
155 and 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: MS CHECKED BY: EB	SCALE: NOT TO SCALE DATE: 06/22	FIGURE 4



From: "Alterations To: 155 Chandler Street, Construction Set" September 26, 2017



Legend

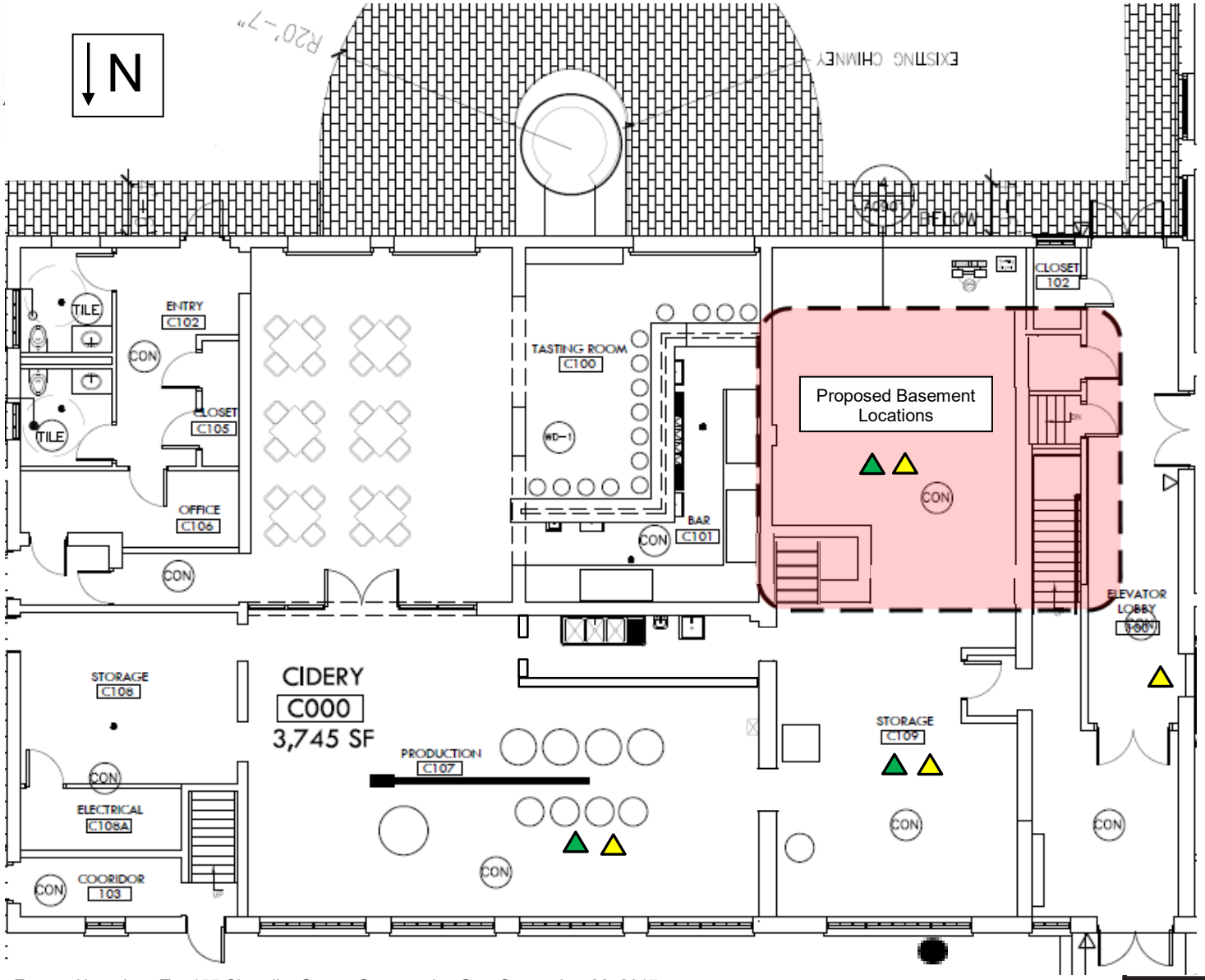
- Indoor Air Sample Location
- Sub-slab Air Sample Location
- Outdoor Air Sample Location
- Poly Sheeting Barrier
- Basement boundary area below mezzanine floor

ENVIRONMENTAL ADVANTAGE, INC.
Regulatory Compliance - Site Investigations - Facility Audits

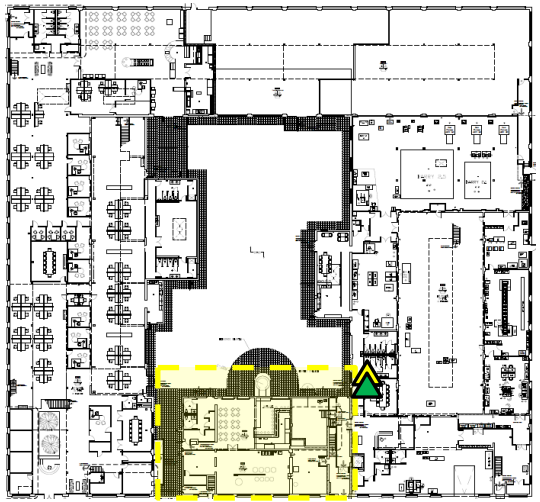
MARCH 2022 SOIL VAPOR INTRUSION INVESTIGATION & POST VENT INSTALLATION SAMPLE LOCATIONS
155 and 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: JK CHECKED BY: MS	SCALE: NOT TO SCALE DATE: 06/22	FIGURE 5



From: "Alterations To: 155 Chandler Street, Construction Set" September 26, 2017



Legend

- Proposed Indoor Air Sample Location
- Proposed Sub-Slab Air Sample Location
- Proposed Outdoor Air Sample Location
- Basement boundary area below mezzanine floor

Chandler Street

ENVIRONMENTAL ADVANTAGE, INC.
Regulatory Compliance - Site Investigations - Facility Audits

PROPOSED ADDITIONAL SOIL VAPOR INTRUSION INVESTIGATION SAMPLE LOCATIONS
155 and 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: JK CHECKED BY: MS	SCALE: NOT TO SCALE DATE: 06/22	FIGURE 6

APPENDIX B

TABLES

Table 1
Soil Vapor Intrusion Analytical Testing Results
155 Chandler Street, Buffalo, NY
September 2017

	Guidance Values- Indoor Air															
Parameter	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	SS-1 Sub-Slab	IA-1 Indoor Air	SS-2 Sub-Slab	IA-2 Indoor Air	SS-3 Sub-Slab	IA-3 Indoor Air	SS-4 Sub-Slab	IA-4 Indoor Air	SS-5 Sub-Slab	IA-5 Indoor Air	SS-6 Sub-Slab	IA-6 Indoor Air	OA001 Outdoor Air	Table C2 Outdoor Air Guidance Values
1,1,1-Trichloroethane	20.6		ND	ND	ND	ND	ND	ND	62	ND	Sample destroyed due to construction activity	ND	ND	ND	ND	2.6
1,1-Dichloroethene	<1.4		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	<1.4
1,2,4-Trichlorobenzene	<6.8		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	0.98	<6.4
1,2,4-Trimethylbenzene	9.5		8.4 J	0.88	5.8 J	0.98	47	1.5	7.1	5.9		4.7	5.6 J	75	ND	5.8
1,3,5-Trimethylbenzene	3.7		1.9 J	ND	3.0 J	ND	12	0.54 J	3.2 J	1.9		1.2	1.7 J	31	ND	2.7
2,2,4-trimethylpentane	NV		ND	ND	ND	ND	ND	ND	ND	ND		3.1	ND	ND	0.98	NV
4-ethyltoluene	3.6		2.1 J	ND	3.2 J	ND	13	ND	2.9 J	1.4		1	1.9 J	34	ND	3.0
Acetone	98.9		52	28	230	33	380	49	180	150		40	390	290	30	43.7
Benzene	9.4		4.9	1.1	18	0.89	23	2.9	80	6.3		9.3	110	6.1	1.1	6.6
Bromomethane	<1.7		ND	ND	ND	ND	ND	ND	ND	ND		ND	1.2 J	ND	ND	<1.6
Carbon disulfide	4.2		0.81	ND	4.9	ND	9.0	ND	6.7	ND		ND	25	ND	ND	3.7
Carbon tetrachloride	<1.3		2.0	0.63	ND	0.69	41	0.63	23	0.57		ND	1.4 J	0.63	0.63	0.7
Chloroethane	<1.1		ND	ND	ND	ND	ND	ND	ND	ND		ND	1.1 J	ND	ND	<1.2
Chloroform	1.1		2.5	ND	0.78	ND	35	ND	28	ND		ND	3.5 J	ND	ND	0.6
Chloromethane	3.7		ND	1.3	0.33	1.3	ND	1.4	ND	1.8		1.3	5.9	1.9	1.7	3.7
cis-1,2-Dichloroethene	<1.9		ND	ND	ND	ND	ND	ND	3.3 J	ND		ND	ND	ND	ND	<1.8
Cyclohexane	NV		5.9	ND	39	ND	48	0.52	210	1.4		1.9	610	1.9	0.55	NV
Ethylbenzene	5.7		5.0 J	1.3	7.7 J	2.8	34	2	9.8	2.8		2.3	8.9 J	2.3	1.3	3.5
Freon 11	NV		1.2	1.8	1.6	1.6	1.7	1.5	2.0 J	1.6		1.5	1.5 J	1.5	1.6	NV
Freon 113	NV		ND	ND	ND	ND	ND	ND	0.84 J	ND		ND	ND	ND	ND	NV
Freon 12	NV		2.5	3	2.7	2.9	2.7	2.7	3.0 J	2.6		2.7	2.5 J	2.6	2.7	NV
Heptane	NV		6.8	1.2	78	ND	75	1	410	2.9		3.7	690	3.9	0.98	NV
Hexane	NV		17	2.9	79	14	60	36	560	31		7.4	680	220	6.8	6.4
Isopropyl alcohol	NV		3.9	7.4	4.1	2.2	19	1.1	ND	13		1.9	ND	17	4.9	NV
m&p-Xylene	22.2		18.0 J	4.9	17	3.6	140	7.5	27	12		9.6	27	11	4.7	12.8
Methyl Ethyl Ketone	12		3	2.2	11	4.7	51	23	8.5	47		2.4	18	2	2.2	11.3
Methyl Isobutyl Ketone	NV		ND	0.53 J	ND	0.57 J	ND	ND	ND	ND		ND	ND	ND	ND	NV
Methylene chloride	10	60	2	3	2.9	2.2	2.4	1.6	2.6 J	150		2.5	2.4 J	3.9	1.8	6.1
o-Xylene	7.9		7.1 J	2	6.3	3.6	48	3	8.6	3.9		3.3	9.1 J	6.1	2	4.6
Styrene	1.9		0.51 J	ND	ND	ND	0.47 J	ND	0.77 J	0.81		0.89	ND	0.77	ND	1.3
Tetrachloroethylene	15.9	30	1.3 J	0.75	0.95 J	1	9.7 J	1.2	340	0.95		0.68	ND	0.81	ND	6.5
Tetrahydrofuran	NV		0.53	1.3	0.94	4.7	3.7	40	0.8 J	91		0.85	ND	0.71	1.1	NV
Toluene	43		35	6.2	31	6.3	170	12	110	15		22	110	31	3.9	33.7
trans-1,2-Dichloroethene	NV		ND	ND	ND	ND	ND	ND	2.6 J	ND		ND	ND	ND	ND	NV
Trichloroethene	4.2	2	ND	ND	2.2 J	0.38	730	0.27	3,500	1.7		ND	ND	0.64	ND	1.3
Vinyl chloride	<1.9		ND	ND	ND	ND	ND	ND	ND	ND		ND	0.66 J	ND	ND	<1.8

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report in Attachment C of the Final Engineering Report.
2. Analytical testing for VOCs via TO-15 completed by Centek Laboratories in Syracuse, New York.
3. Results present in ug/m^3 or microgram per cubic meter.
4. Samples were collected during a 24-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 for Indoor Air; green shaded values represent exceedance of table C2 guidance values for Outdoor Air ; 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 Decision Matrices - September 2017
155 Chandler Street, Buffalo, NY

Sample ID	Parameter	Sub-slab Vapor Concentrations (ug/m^3)	Indoor Air Concentration (ug/m^3)	Recommended Action
Matrix A Trichloroethene (TCE); cis-1,2-dichloroethene (cis-DCE); 1,1-dichloroethene (1,1-DCE); Carbon Tetrachloride				
SS-1/IA-1	TCE	ND	ND	No further action
	cis-DCE	ND	ND	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	2	0.63	No further action
SS-2/IA-2	TCE	2.2 J	0.38	No further action
	cis-DCE	ND	ND	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	ND	0.69	No further action
SS-3/IA-3	TCE	730	0.27	Mitigate
	cis-DCE	ND	ND	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	41	0.63	Monitor
SS-4/IA-4	TCE	3500	1.7	Mitigate
	cis-DCE	3.3 J	ND	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	23	0.57	Monitor
SS-5/IA-5	TCE	Sample destroyed	ND	No further action
	cis-DCE		ND	No further action
	1,1-DCE		ND	No further action
	Carbon Tetrachloride		ND	No further action
SS-6/IA-6	TCE	ND	0.64	No further action
	cis-DCE	ND	ND	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	1.4 J	0.63	No further action
Matrix B Methylene Chloride (MC); 1,1,1- Trichloroethane (1,1,1-TCA); Tetrachloroethylene (PCE)				
SS-1/IA-1	MC	2	3	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	1.3	0.75	No further action
SS-2/IA-2	MC	2.9	2.2	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	0.95	1.0	No further action
SS-3/IA-3	MC	2.4	1.6	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	9.7	1.2	No further action
SS-4/IA-4	MC	2.6 J	150	Identify source(s) and Resample or Mitigate
	1,1,1-TCA	62	ND	No further action
	PCE	340	0.95	No further action
SS-5/IA-5	MC	Sample destroyed	2.5	No further action
	1,1,1-TCA		ND	No further action
	PCE		0.68	No further action
SS-6/IA-6	MC	2.4 J	3.9	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	ND	0.81	No further action
Matrix C Vinyl Chloride (VC)				
SS-1/IA-1	VC	ND	ND	No further action
SS-2/IA-2	VC	ND	ND	No further action
SS-3/IA-3	VC	ND	ND	No further action
SS-4/IA-4	VC	ND	ND	No further action
SS-5/IA-5	VC	Sample destroyed	ND	No further action
SS-6/IA-6	VC	0.66J	ND	No further action

1. Compounds included on NYSDOH Air Matricies included in this table. For a list of all compounds, refer to analytical report included in Attachment C of the Final Engineering Report.

2. Analytical testing for VOCs via TO-15 completed by Centek Laboratories in Syracuse, New York.

3. Results present in ug/m3 or microgram per cubic meter.

4. Samples were collected during an 8-hour sample duration.

5. Air Guidance Values from Table 3.1 Air guideline values derived by the NYSDOH included in the "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health and updated in May 2017.

6.Yellow shaded values represent Monitoring recommended; Green shaded values represent Resampling to identify source Mitigation recommended; Orange shaded values represent Mitigation recommended.

7. ND = Non Detect

Table 3
Indoor Air Analytical Testing Results
155 & 157 Chandler Street, Buffalo, NY
December 2018 through December 2021

	Guidance Values - Indoor Air		IA-1					IA-2				IA-3					IA-4					
LOCATION	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	IA-1 Indoor Air	IA-1 (121219) Indoor Air	IA-1 (121219) Duplicate Indoor Air	IA-1 (121120) Indoor Air	IA-1 (120221) Indoor Air	IA-2 Indoor Air	IA-2 (121219) Indoor Air	IA-2 (121120) Indoor Air	IA-2 (120221) Indoor Air	IA-3 Indoor Air	IA-3 (121219) Indoor Air	IA-3 (121120) Indoor Air	IA-3 (121120) Duplicate Indoor Air	IA-3 (120221) Indoor Air	IA-4 Indoor Air	IA-4 Duplicate Indoor Air	IA-4 (121219) Indoor Air	IA-4 (121120) Indoor Air	IA-4 (120221) Indoor Air	IA-4 (120221) Duplicate Indoor Air
SAMPLING DATE			12/18/2018	12/12/2019	12/12/2019	12/11/2020	12/2/2021	12/18/2018	12/12/2019	12/11/2020	12/2/2021	12/18/2018	12/12/2019	12/11/2020	12/11/2020	12/2/2021	12/18/2018	12/18/2018	12/12/2019	12/11/2020	12/2/2021	12/2/2021
LAB SAMPLE ID			L1852191-06	L1959919-06	L1959919-07	L2055692-06	L2166417-09	L1852191-07	L1959919-08	L2055692-07	L2166417-10	L1852191-02	L1959919-04	L2055692-03	L2055692-04	L2166417-04	L1852191-03	L1852191-04	L1959919-03	L2055692-02	L2166417-02	L2166417-03
Volatile Organics in Air (ug/m³)																						
1,1,1-Trichloroethane*	20.6	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene*	<1.4	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	<6.8	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	9.5	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	<0.9	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,4-trimethylpentane	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	98.9	NV	14.4	11.9	11.8 J	8.46 J	15.7	14.6	12.4	7.98 J	17.6	21.1	13.3	8.29 J	11.7 J	113	24.7	24	8.20	9.93 J	195	194
Benzene	9.4	NV	ND	0.744	0.824 J	0.684	ND	ND	0.764	0.687	ND	ND	0.652	ND	0.642	0.85	ND	ND	0.684	ND	ND	ND
Carbon disulfide	4.2	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.24	1.35	1.36	1.94	1.42	ND	ND	ND	ND	ND	ND
Carbon tetrachloride*	<1.3	NV	0.591	0.579	0.572 J	0.522	0.579	0.566	0.598	0.516	0.554	0.541	0.491	0.428	0.453	0.434	0.711	0.723	0.516	0.384	0.472	0.491
Chloroform	1.1	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.66
Chloromethane	3.7	NV	1.25	1.19	1.16 J	1.07	1.16	1.14	1.22	1.07	1.14	2.24	1.18	1.02	1.06	1.13	2.95	1.13	1.11	1.04	1.14	1.21
cis-1,2-Dichloroethene*	<1.9	NV	ND	ND	ND	ND	ND	ND	ND	0.186	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	16.5	NV	1.63	2.59	2.59 J	2.20	2.78	1.68	2.70	2.12	2.82	2.4	2.58	2.02	2.06	2.51	1.78	1.66	2.57	2.04	2.61	2.73
Ethanol	210	NV	155	298	352 J	230	176	207	224	215	198	307	931	590	803	5310 R1	148	144	392	1,330	100	96.3
Ethyl acetate	5.4	NV	ND	6.85	7.03 J	6.45	ND	ND	9.30	7.24	ND	26.5	231	186	284	140	3.29	3.33	60.5	12.4	ND	ND
Ethylbenzene	5.7	NV	2.49	0.869	0.873 J	1.02	ND	2.32	0.877	1.33	ND	2.76	ND	ND	ND	ND	2.79	2.82	ND	ND	ND	ND
Heptane	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.09	ND	ND	ND	ND	2.49	2.7
Hexane (n-Hexane)	NV	NV	ND	0.888	0.962 J	1.34	ND	ND	1.01	1.32	ND	0.811	ND	ND	ND	0.754	1.26	1.32	ND	0.839	0.934	0.906
Isopropanol	NV	NV	11.9	3.52	3.39 J	6.02	20.5	11.3	3.17	5.60	32	32.4	2.65	6.83	9.88	578 R1	99.6	97.8	2.48	7.18	1720 R1	1730 R1
m&p-Xylene	22.2	NV	9.56	3.36	3.33 J	4.34	ND	9.38	3.32	4.18	2.21	10.6	1.74	2.30	2.82	2.45	10.6	10.3	ND	2.39	ND	ND
Methyl Ethyl Ketone (2-Butanone)	12	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.28	ND	1.58	ND	ND	ND	1.64	ND	ND	ND
Methyl Isobutyl Ketone (4-Methyl-2-	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	10	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	7.9	NV	3.12	1.22	1.29 J	1.83	ND	3.09	1.22	1.47	0.943	2.86	ND	ND	0.947	0.951	3.14	3.24	ND	ND	ND	ND
Styrene	1.9	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	15.9	30	0.753	0.651	0.387 J	0.427	ND	0.685	0.346	1.00	ND	0.332	0.488	ND	ND	ND	0.922	0.882	ND	0.156	ND	ND
Tetrahydrofuran	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	3.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	43	NV	4.07	1.53	1.76 J	1.49	ND	1.21	1.57	1.43	1.07	1.16	1.38	1.41	1.58	0.946	4.26	5.8	1.30	1.15	1.23	1.21
trans-1,2-Dichloroethene	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.932	ND	ND
Trichloroethene*	4.2	2	0.849	0.833	0.844 J	0.801	0.973	0.736	0.742	0.790	0.865	0.489	ND	ND	0.145	0.118	1.34	1.37	ND	0.478	0.161	0.161
Trichlorofluoromethane	18.1	NV	1.33	1.25	1.29 J	1.19	1.33	1.3	1.29	1.15	1.33	1.12	1.27	1.15	ND	1.33	1.28	1.25	1.25	ND	1.24	1.28
Vinyl chloride*	<1.9	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

			IA-5								IA-6											IA-7	IA-8	OA-1				
LOCATION	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	IA-5 Indoor Air	IA-5 (0219) Indoor Air	IA-5 (0219) Duplicate Indoor Air	IA-5 (0619) Indoor Air	IA-5 (0619) Duplicate Indoor Air	IA-5 (121219) Indoor Air	IA-5 (121120) Indoor Air	IA-5 (120221) Indoor Air	IA-6 Indoor Air	IA-6 (121219) Indoor Air	IA-6 (022020) Indoor Air	IA-6 (022020) Duplicate Indoor Air	IA-6 (121120) Indoor Air	IA-6 (021821) Indoor Air	IA-6 (021821) Duplicate Indoor Air	IA-6 (033121) Indoor Air	IA-6 (033121) Duplicate Indoor Air	IA-6 (061121) Indoor Air	IA-6 (120221) Indoor Air	IA-7 (120221) Indoor Air	IA-8 (120221) Indoor Air	OA-1 Outdoor Air	OA-1 (121219) Outdoor Air	OA-1 (121120) Outdoor Air	OA-1 (120221) Outdoor Air	Table C2 Outdoor Air Guidance Values
SAMPLING DATE			12/18/2018	2/13/2019	2/13/2019	6/21/2019	6/21/2019	12/12/2019	12/11/2020	12/2/2021	12/18/2018	12/12/2019	2/20/2020	2/20/2020	12/11/2020	2/18/2021	2/18/2021	3/31/2021	3/31/2021	6/11/2021	12/2/2021	12/2/2021	12/2/2021	12/18/2018	12/12/2019	12/11/2020	12/2/2021	
LAB SAMPLE ID			L1852191-01	L1905849-01	L1905849-02	L1927357-01	L1927357-02	L1959919-02	L2055692-01	L2166417-01	L1852191-05	L1959919-05	L2007739-01	L2007739-02	L2055692-05	L2108109-01	L2108109-02	L2108109-01	L2108109-01	L2132969-01	L2166417-08	L2166417-06	L2166417-07	L1852191-08	L1959919-01	L2055692-08	L2166417-05	
Volatile Organics in Air (ug/m³)																												
1,1,1-Trichloroethane*	20.6	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6
1,1-Dichloroethene*	<1.4	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.4
1,2,4-Trichlorobenzene	<6.8	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	ND	ND	ND	ND	<6.4
1,2,4-Trimethylbenzene	9.5	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	1.24	ND	ND	1.20	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	5.8
1,2-Dichloroethane	<0.9	NV	0.163	0.127	0.139	ND	ND	ND	ND	ND	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.8
2,2,4-trimethylpentane	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.943	1.36	1.29	ND	ND	1.44	1.47	ND	ND	ND	ND	NV
Acetone	98.9	NV	46.3	33.5 J	36.3 J	38 J	40.4 J	9.45	6.29 J	316	5.3	8.69	165	187	7.63 J	3.99 J	2.85 J	21.3 J	20.3 J	11.3	20.1 J	152	123	4.39	3.44	4.16 J	7.79	43.7
Benzene	9.4	NV	ND	ND	ND	ND	0.866	0.741	ND	0.872	ND	0.655	ND	ND	ND	1.12	1.13	1.30	1.25	ND	ND	1.34	1.41	ND	ND	ND	ND	6.6
Carbon disulfide	4.2	NV	ND	ND	ND	0.673	0.704	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7
Carbon tetrachloride*	<1.3	NV	2.31	1.09	1.05	0.591	0.598	0.547	0.415	0.591	0.598	2.26	0.434	0.453	0.528	0.434	0.465	0.528	0.535	0.711	0.484 J	1.01	0.9	0.459	0.484	0.403	0.528	0.7
Chloroform	1.1	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
Chloromethane	3.7	NV	1.13	0.96	1.01	1.43	1.40	1.23	1.01	1.18	1.06	1.09	0.956	0.921	1.01	0.898	0.944	1.08	1.08	1.20	1.12 J	1.32	1.24	1.13	1.11	0.952	1.14	3.7
cis-1,2-Dichloroethene*	<1.9	NV	0.163	0.127	0.139	ND	ND	ND	ND	0.266	0.103	0.270	0.095	0.119	0.079	ND	ND	0.095	0.091	ND	ND	0.412	0.369	ND	ND	ND	ND	<1.8
Cyclohexane	NV	NV	ND	ND	ND	ND	1.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.688	1.16	1.13	ND	ND	1.48	1.57	ND	ND	ND	ND	NV
Dichlorodifluoromethane	16.5	NV	1.61	2.44	2.49	2.69	2.53	2.63	1.93	2.49	2.49	2.66	1.86	1.93	2.08	1.99	2.02	2.12	2.16	2.47	2.53 J	2.64	2.71	1.39	2.55	1.89	2.68	8.1
Ethanol	210	NV	910	298	315	675	667	63.3	3,050	143	40.1	194	111	129	228	105	104	194	220	41.6	117 J	874	820	ND	ND	ND	13.8	57
Ethyl acetate	5.4	NV	15.9	3.2	3.28 J	5.19	6.45	ND	12.8	ND	ND	2.01	ND	ND	ND	2.79	2.56	ND	ND	ND	ND	3.03	2.63	ND	ND	ND	ND	1.5
Ethylbenzene	5.7	NV	4.73	2	2.03	8.38	8.69	0.986	ND	ND	ND	ND	5.52	5.86	ND	1.62	1.73	1.15	1.09	ND	ND	1.26	1.15	ND	ND	ND	ND	3.5
Heptane	NV	NV	ND	ND	ND	0.906	1.22	ND	ND	2.11	ND	ND	ND	ND	ND	0.971	1.08	2.45	2.28	ND	ND	5	2.73	ND	ND	ND	ND	NV
Hexane (n-Hexane)	NV	NV	6.87	2.55	2.81	2.49	4.79	0.807	ND	1.66	ND	ND	ND	ND	0.733	3.30	3.41	5.08	4.79	ND	0.959 J	5.64	5.85	ND	ND	0.705	1.54	6.4
Isopropanol	NV	NV	873	215	228	1230	1170	4.77	4.42	2370 R1	ND	9.24	5.21	5.19	2.11	1.83 J	1.93 J	79.2	79.2	28.8	80.1 J	902 R1	733 R1	ND	ND	ND	6.64	NV
m&p-Xylene	22.2	NV	19	8.17	8.17	36.7	36.2	3.82	1.82	1.89	ND	ND	18.0	19.3	ND	6.91	7.60	4.39	4.26	ND	ND	5.04	4.6	ND	ND	ND	ND	12.8
Methyl Ethyl Ketone (2-Butanone)	12	NV	4.63	5.66	6.16	2.56	2.70	ND	ND	1.68	ND	1.62	ND	ND	ND	1.87	1.67	1.67	1.58	ND	ND	ND	ND	ND	ND	ND	ND	11.3
Methyl Isobutyl Ketone (4-Methyl-2-	NV	NV	19.8	4.51	4.39	5.12	5.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV
Methylene chloride	10	60	ND	ND	ND	ND	2.01	ND	ND	2.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.72	ND	ND	ND	ND	4.24	6.1
o-Xylene	7.9	NV	5.56	2.4	2.44	12.2	12.2	1.20	ND	ND	ND	ND	5.21	5.60	ND	2.08	2.30	1.49	1.45	ND	ND	1.73	1.6	ND	ND	ND	ND	4.6
Styrene	1.9	NV	0.932	ND	ND	2.18	2.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
Tetrachloroethene	15.9	30	1.3	0.353	0.319	0.203	0.292	0.271	0.183	ND	0.529	0.448	0.305	0.292	0.285	0.170	0.210	0.353	0.319	ND	ND	ND	ND	ND	ND	ND	ND	6.5
Tetrahydrofuran	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.86	1.55	ND	ND	ND	ND	ND	ND	ND	ND	NV
Toluene	43	NV	7.65	5.35	5.39	5.39	8.63	2.58	1.01	2.46	ND	1.82	1.17	1.06	1.25	3.72	4.07	6.93	6.59	1.01	1.26 J	10.8	7.5	ND	0.855	0.806	1.46	33.7
trans-1,2-Dichloroethene	NV	NV	1.44	2.36	2.5	6.15	5.95	1.10	1.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV
Trichloroethene*	4.2	2	9.46	4.54	4.58	0.903	0.833	0.688	0.715	0.505	0.924	12.0	1.34	1.43	2.96	2.96	2.93	14.0	13.6	1.31	1.73 J	17.5	18	ND	ND	ND	0.124	1.3
Trichlorofluoromethane	18.1	NV	1.25	ND	ND	1.41	1.49	1.32	ND	1.35	1.26	1.31	ND	ND	1.14	ND	ND	1.15	ND	1.31	1.28 J	1.44	1.37	1.16	1.24	ND	1.34	4.3
Vinyl chloride*	<1.9	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV

Notes:

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report. All NYSDOH Matrix analytes included in this table.
2. Analytical testing for VOCs via TO-15 completed by Alpha Laboratories. * = samples analyzed for volatile organics in air by SIM.
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 Guideline Values from "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by NYSDOH. Updated September 2013 and August 2015.
7. No shading represents the samples most previously collected during the 2018-2020 PRR Reporting Periods.
8. Grey shaded values represent exceedance of table C2 guidance values; yellow shaded values represent exceedance of NYSDOH Air Guideline Values.
9. ND = Non Detect; NV = No Value; R1 = Analytical results are from sample re-analysis.
10. **Bolded** = NYSDOH Matrix analytes.
11. RED = Updated as a result of Data Validation.

Environmental Advantage

Table 4
March 2022 Soil Vapor Intrusion Investigation Analytical Testing Results
Pierce Arrow Business Center
155 Chandler Street, Buffalo, NY

LOCATION	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Air Guideline Value	SS-7 (032922)	IA-7 (032922)	SS-9 (032922)	IA-9 (032922)	SS-10 (032922)	IA-10 (032922)	OA-1 (032922)	Table C2 Commercial Outdoor Air Background (90%)
SAMPLING DATE			3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	
LAB SAMPLE ID			L2217738-07	L2217738-06	L2217738-02	L2217738-03	L2217738-04	L2217738-05	L2217738-01	
Volatile Organics in Air (ug/m3)										
1,1,1-Trichloroethane*	20.6	NV	ND	ND *	ND	ND *	ND	ND *	ND *	2.6
1,1,2,2-Tetrachloroethane	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
1,1,2-Trichloroethane	<1.5	NV	ND	ND	ND	ND	ND	ND	ND	<1.6
1,1-Dichloroethane	<0.7	NV	ND	ND	ND	ND	ND	ND	ND	<0.6
1,1-Dichloroethene*	<1.4	NV	ND	ND *	ND	ND *	ND	ND *	ND *	<1.4
1,2,4-Trichlorobenzene	<6.8	NV	ND	ND	ND	ND	ND	ND	ND	<6.4
1,2,4-Trimethylbenzene	9.5	NV	**25.8**	ND	**27.9**	ND	**27.3**	ND	ND	5.8
1,2-Dibromoethane	<1.5	NV	ND	ND	ND	ND	ND	ND	ND	<1.6
1,2-Dichlorobenzene	<1.2	NV	ND	ND	ND	ND	ND	ND	ND	<1.2
1,2-Dichloroethane	<0.9	NV	ND	ND	ND	ND	ND	ND	ND	<0.8
1,2-Dichloropropane	<1.6	NV	ND	ND	ND	ND	ND	ND	ND	<1.6
1,3,5-Trimethylbenzene	3.7	NV	**6.34**	ND	**6.49**	ND	**6.93**	ND	ND	2.7
1,3-Butadiene	<3.0	NV	ND	ND	ND	ND	**111**	ND	ND	<3.4
1,3-Dichlorobenzene	<2.4	NV	ND	ND	ND	ND	ND	ND	ND	<2.2
1,4-Dichlorobenzene	5.5	NV	ND	ND	ND	ND	ND	ND	ND	1.2
1,4-Dioxane	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
2,2,4-Trimethylpentane	NV	NV	ND	ND	**1.59**	ND	ND	ND	ND	NV
3-Chloropropene	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
4-Ethyltoluene	3.6	NV	**6.19**	ND	**7.57**	ND	**9.68**	ND	ND	3.0
Acetone	98.9	NV	**4.37** J	**65.6** J	**13.7** J	**41.6** J	**92.6** J	**88.8** J	**3.52** J	43.7
Benzene	9.4	NV	**8.31**	ND	**5.43**	**0.639**	**133**	**0.684**	ND	6.6
Benzyl chloride	<6.8	NV	ND	ND	ND	ND	ND	ND	ND	<6.4
Bromodichloromethane	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Bromoform	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Bromomethane	<1.7	NV	ND	ND	ND	ND	ND	ND	ND	<1.6
Carbon disulfide	4.2	NV	ND	ND	**3.18**	ND	**135**	ND	ND	3.7
Carbon tetrachloride*	<1.3	NV	**3.12**	**3.96** *	**8.87**	**8.05** *	**4.3**	**5.13** *	**0.566** *	0.7
Chlorobenzene	<0.9	NV	ND	ND	ND	ND	ND	ND	ND	<0.8
Chloroethane	<1.1	NV	ND	ND	ND	ND	ND	ND	ND	<1.2
Chloroform	1.1	NV	ND	**1.41**	**3.28**	**2.94**	**2.36**	**1.82**	ND	0.6
Chloromethane	3.7	NV	ND	**1.24**	ND	**1.21**	**4.44**	**1.23**	**1.11**	3.7
cis-1,2-Dichloroethene*	<1.9	NV	ND	**0.369** *	ND	**0.389** *	ND	**0.48** *	ND *	<1.8
cis-1,3-Dichloropropene	<2.3	NV	ND	ND	ND	ND	ND	ND	ND	<2.2
Cyclohexane	NV	NV	**8.67**	ND	**5.68**	ND	**235**	ND	ND	NV
Dibromochloromethane	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Dichlorodifluoromethane	16.5	NV	**2.57**	**2.69**	**2.73**	**2.69**	**2.6**	**2.7**	**2.55**	8.1
Ethanol	210	NV	ND	**232**	**14.8**	**209**	**33.9**	**144**	ND	57
Ethyl Acetate	5.4	NV	**2.24**	ND	ND	ND	ND	**1.99**	ND	1.5
Ethylbenzene	5.7	NV	**16.5**	ND	**16.5**	ND	**42.6**	ND	ND	3.5
Freon-113	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Freon-114	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Heptane	NV	NV	**14.3**	ND	**13.1**	**1.13**	**447**	ND	ND	NV
Hexachlorobutadiene	<6.8	NV	ND	ND	ND	ND	ND	ND	ND	<6.4
n-Hexane	10.2	NV	**32.6**	ND	**26.6**	ND	**465**	ND	ND	6.4
Isopropanol	250	NV	**3.74**	**371**	**8.06**	**237**	**16.8**	**543**	**3.79**	16.5
p/m-Xylene	22.2	NV	**79.9**	ND	**79.5**	**1.98**	**175**	ND	ND	12.8
2-Hexanone	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
2-Butanone	12	NV	**3.27**	**2.01**	**14.2**	ND	**23.2**	ND	ND	11.3
4-Methyl-2-pentanone	6.0	NV	ND	ND	ND	ND	ND	ND	ND	1.9
Methyl tert butyl ether	11.5	NV	ND	ND	ND	ND	ND	ND	ND	6.2
Methylene chloride	10	60	ND	ND	**1.99**	ND	ND	ND	ND	6.1
o-Xylene	7.9	NV	**25.4**	ND	**26.1**	**1.02**	**44.3**	ND	ND	4.6
Styrene	1.9	NV	ND	ND	ND	ND	ND	ND	ND	1.3
Tertiary butyl Alcohol	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Tetrachloroethene*	15.9	30	ND	**0.373** *	**1.45**	**0.61** *	ND	**0.305** *	ND *	6.5
Tetrahydrofuran	NV	NV	ND	ND	**8.49**	ND	ND	ND	ND	NV
Toluene	43	NV	**86.3**	**1.56**	**78**	**1.38**	**324**	**1.09**	ND	33.7
trans-1,2-Dichloroethene	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
trans-1,3-Dichloropropene	<1.3	NV	ND	ND	ND	ND	ND	ND	ND	<1.4
Trichloroethene*	4.2	2	**8.92**	**24.1** *	**7.09**	**25.5** *	**23.4**	**39.2** *	ND *	1.3
Trichlorofluoromethane	18.1	NV	**1.52**	**1.31**	**1.57**	**1.38**	ND	**1.3**	**1.18**	4.3
Vinyl bromide	NV	NV	ND	ND	ND	ND	ND	ND	ND	NV
Vinyl chloride*	<1.9	NV	ND	ND *	ND	ND *	ND	ND *	ND *	<1.8

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 Analytical.
3. Results present in ug/m^3 or microgram per cubic meter.
4. Samples were collected during an 8-hour sample duration.
5. 90th percentile values as presented in Table C2. EPA 2001: Building assessment and survey evaluation (BASE) database, SUMMS canister method (Appendix C, in the NYSDOH Guidance Manual).
6. Air Guidance Values from Table 3.1 Air guideline values derived by the NYSDOH included in the "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health and updated in September 2013 and August 2015.
7. Green shaded values represent exceedance of Table C2 commercial background levels; yellow shaded values represent exceedance of NYSDOH Air Guideline Values as updated.
8. ND = Non Detect; NV = No Background/Guideline Value
9. * Volatile Organics in Air by SIM
10. No appropriate guidance values apply to sub-slab air, therefore background guidance values from Table C2 and NYSDOH Air Guideline values from Table 3.1 are compared to indoor and outdoor air only.
11. RED = Udated as a result of Data Validation.

Table 5
March 2022 Soil Vapor Intrusion Investigation Decision Matrices
155 Chandler Street, Buffalo, NY

Sample ID	Parameter	Sub-slab Vapor Concentrations (ug/m^3)	Indoor Air Concentration (ug/m^3)	Recommended Action
Matrix A Trichloroethene (TCE); cis-1,2-dichloroethene (cis-DCE); 1,1-dichloroethene (1,1-DCE); Carbon Tetrachloride				
SS-7/IA-7	TCE	8.92	24.1	Mitigate
	cis-DCE	ND	0.369	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	3.12	3.96	Identify Source(s) and Resample or Mitigate
SS-9/IA-9	TCE	7.09	25.5	Mitigate
	cis-DCE	ND	0.389	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	8.87	8.05	Mitigate
SS-10/IA-10	TCE	23.4	39.2	Mitigate
	cis-DCE	ND	0.48	No further action
	1,1-DCE	ND	ND	No further action
	Carbon Tetrachloride	4.3	5.13	Identify Source(s) and Resample or Mitigate
Matrix B Methylene Chloride (MC); 1,1,1- Trichloroethane (1,1,1-TCA); Tetrachloroethylene (PCE)				
SS-7/IA-7	MC	ND	ND	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	ND	0.373	No further action
SS-9/IA-9	MC	1.99	ND	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	1.45	0.610	No further action
SS-10/IA-10	MC	ND	ND	No further action
	1,1,1-TCA	ND	ND	No further action
	PCE	ND	0.305	No further action
Matrix C Vinyl Chloride (VC)				
SS-7/IA-7	VC	ND	ND	No further action
SS-9/IA-9	VC	ND	ND	No further action
SS-10/IA-10	VC	ND	ND	No further action

1. Compoundsincluded on NYSDOH Air Matricies 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 Analytical.
3. Results present in ug/m3 or microgram per cubic meter.
4. Samples were collected during an 8-hour sample duration.
5. Air Guidance Values from Table 3.1 Air guideline values derived by the NYSDOH included in the "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health and updated in May 2017.
6. Green shaded values represent Resampling to identify source Mitigation recommended; Orange shaded values represent Mitigation recommended.
7. ND = Non Detect

Environmental Advantage

APPENDIX C

FIELD NOTES & BUILDING SURVEY

Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** _____

Site No.: C915312 **Site Name:** Pierce Arrow Business Center (Blackbird cidery)

Date: 3/29/2022 **Time:** 8:20am

Structure Address: 155 Chandler st. Buffalo, NY

Preparer's Name & Affiliation: Eric Betzold, Environmental Consultant

Residential ? ☐ Yes ☐ No **Owner Occupied ?** ☐ Yes ☒ No **Owner Interviewed ?** ☐ Yes ☒ No

Commercial ? ☐ Yes ☐ No **Industrial ?** ☐ Yes ☐ No **Mixed Uses ?** ☒ Yes ☐ No

Identify all non-residential use(s): Blackbird cidery

Owner Name: R&M Leasing **Owner Phone:** ( ) _____ - _____

Secondary Owner Phone: ( ) _____ - _____

Owner Address (if different): 39 Washington St. Buffalo, NY 14203

Occupant Name: Blackbird cidery **Occupant Phone:** ( ) _____ - _____

Secondary Occupant Phone: ( ) _____ - _____

Number & Age of All Persons Residing at this Location: Approx. 10 people (2nd floor)

Additional Owner/Occupant Information: N/A

Describe Structure (style, number floors, size): 1-2 Stories Brick Exterior, Flat Rubber membrane roof. (85,000 ft²)

Approximate **Year Built:** Early 1900's Is the building **Insulated?** ☒ Yes ☐ No

Lowest level: ☐ Slab-on-grade ☒ Basement ☐ Crawlspace

Describe Lowest Level (finishing, use, time spent in space): Small area within Blackbird cidery

Floor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed: _____

Floor Condition: ☒ Good (few or no cracks) ☐ Average (some cracks) ☐ Poor (broken concrete or dirt)

Sumps/Drains? ☒ Yes ☐ No Describe: Various floor/trench drains throughout facility.

Identify other floor penetrations & details: Various water/sewer lines, electrical conduits.

Wall Construction: ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up Stone

Identify any wall penetrations: overhead garage doors; located within Blackbird Cidery.

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc): None

Heating Fuel: ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other: _____

Heating System: ☒ Forced Air ☐ Hot Water ☐ Other: _____

Hot Water System: ☐ Combustion ☐ Electric ☐ Boilermate ☐ Other: N/A

Clothes Dryer: ☐ Electric ☐ Gas Where is dryer **vented** to? N/A

If combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.): Roof top HVAC units

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to): Exhaust fan installed near 'IA-6' sample location in March 2021.

Soil Vapor Intrusion - Structure Sampling Building Questionnaire **Structure ID :** _____

Describe factors that may affect indoor air quality (chemical use/storage, unvented heaters, smoking, workshop):

None

Attached garage ? ☐ Yes ☒ No Air fresheners ? ☐ Yes ☒ No

New carpet or furniture ? ☐ Yes ☒ No What/Where ? _____

Recent **painting** or **staining** ? ☐ Yes ☒ No Where ? : _____

Any **solvent** or **chemical-like** odors ? ☐ Yes ☒ No Describe : _____

Last time **Dry Cleaned** fabrics brought in ? N/A What / Where ? _____

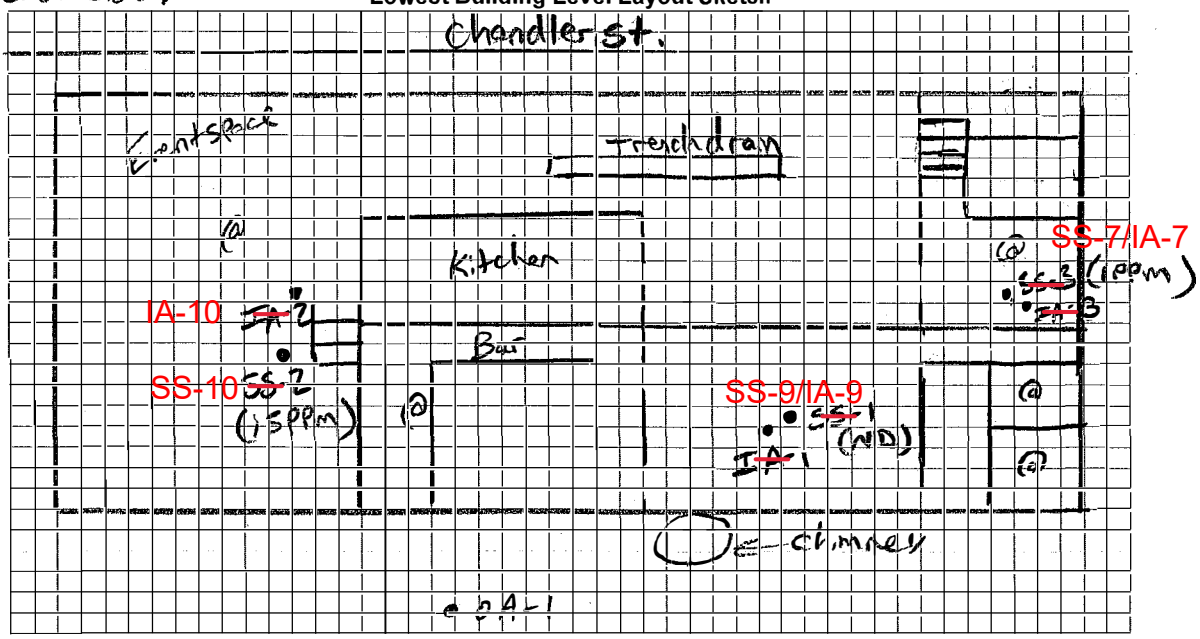
Do any building occupants use solvents at work ? ☐ Yes ☐ No Describe : _____

Any testing for Radon ? ☐ Yes ☒ No Results : _____

Radon System/Soil Vapor Intrusion Mitigation System present ? ☐ Yes ☐ No If yes, describe below

Blackbird cidery

Lowest Building Level Layout Sketch



- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or **F**	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	**xxxxxxx**	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	**######**	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab vapor samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Structure Sampling - Product Inventory

Homeowner Name & Address: R&M Leasing

Date: 3/29/2022

Samplers & Company: Eric Betzold & Jason Kryszak

Structure ID: C915312

Site Number & Name: Pierce Arrow Business center (Blackbird cidery)

Phone Number:

Make & Model of PID: Mini RAE 3000

Date of PID Calibration: 3/28/2022

Identify any Changes from Original Building Questionnaire :

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
Wall Paint	3	Titanium Dioxide	ND	Near SS-3/IA-3
Acetone	1 quart	Acetone	ND	" "
Furniture Refinisher	1 quart	Acetone, Toluene, Methanol, Polyethylene Glycol, Rosin	ND	" "
Stripper	1 quart	Methylene chloride	ND	" "
Brushcleaner	1 quart	Methanol, Toluene, Acetone	ND	" "
Wood cleaner	1 quart	Isopropanol	ND	" "
Spray Paint	1 can	VOCs	ND	" "
Stain	1 can	VOCs	ND	" "
bleach	1 gal	Sodium hypochlorite	ND	Kitchen
degreaser	1 quart	2-Butoxy ethanol	ND	" "
Carbon off	1 19oz	2-Butoxy Ethanol	ND	" "
Floor cleaner	1 gallon	Alcohols (C9-C11)	ND	" "

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: OA-1(032922)

Sample Type: ☐ Indoor Air (ambient) ■ Outdoor Air ☐ Soil Vapor ☐ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0830 Stop Time: 1630

Sample Depth: N/A

Sample Height: 4'

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 2300 Regulator # 0771

Vacuum Pressure of Canister Prior to Sampling: -30.09

Vacuum Pressure of Canister After Sampling: -6.99

Temperature in Sampling Zone: 30º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: N/A

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

West wind Ambient Air: 0.0ppm

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: SS-7(032922)

Sample Type: ☐ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ■ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0900 Stop Time: 1700

Sample Depth: 6 inches

Sample Height: N/A

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 145 Regulator # 0915

Vacuum Pressure of Canister Prior to Sampling: -30.43

Vacuum Pressure of Canister After Sampling: -9.20

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: Subbase

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Sub-slab: 1.0ppm

Completed in eastern portion of building in the electrical room.

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: IA-7(032922)

Sample Type: ■ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ☐ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0900 Stop Time: 1700

Sample Depth: N/A

Sample Height: 4'

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 2072 Regulator # 02225

Vacuum Pressure of Canister Prior to Sampling: -30.30

Vacuum Pressure of Canister After Sampling: -9.30

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: N/A

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Ambient air: 0.0ppm

Sample completed in eastern portion of building in electrical room.

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: SS-9(032922)

Sample Type: ☐ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ■ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0840 Stop Time: 1640

Sample Depth: 6 inches

Sample Height: N/A

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 3198 Regulator # 01661

Vacuum Pressure of Canister Prior to Sampling: -29.38

Vacuum Pressure of Canister After Sampling: -7.75

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: Subbase

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Subslab: 0.0ppm

A positive pressure airflow was noted below the slab (fine dust from drilling blowing up slightly).

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: IA-9(032922)

Sample Type: ■ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ☐ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0845 Stop Time: 1645

Sample Depth: N/A

Sample Height: 4'

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 559 Regulator # 0095

Vacuum Pressure of Canister Prior to Sampling: -30.08

Vacuum Pressure of Canister After Sampling: -8.60

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: N/A

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Ambient air: 0.0ppm Sample completed in 'Bar Area'

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: SS-10(032922)

Sample Type: ☐ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ■ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0850 Stop Time: 1650

Sample Depth: 6 inches

Sample Height: N/A

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 133 Regulator # 01536

Vacuum Pressure of Canister Prior to Sampling: -29.40

Vacuum Pressure of Canister After Sampling: -15.30

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: Subbase

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Sub-slab: 15.0ppm

Sample completed in basement area in the western portion of the building. During removal of the sample tube, water was observed in the bottom of the tube. The saturated soils hindered the amount of air collected in the canister.

Sampler's Signature  Date: 03/29/2022

AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Signature Development Project No.: 01101

Site Name & Address: 155 Chandler St. Buffalo, NY

Person(s) Performing Sampling: Eric Betzold & Jason Kryszak

Sample Identification: IA-10(032922)

Sample Type: ■ Indoor Air (ambient) ☐ Outdoor Air ☐ Soil Vapor ☐ Sub-slab Vapor

Date of Collection: 03/29/2022 Setup Time: 0855 Stop Time: 1655

Sample Depth: N/A

Sample Height: 4'

Sampling Method(s) & Device(s): 2.7 L Summa Canister & Regulator

Purge Volume: N/A

Sample Volume: 2.7 L

Sampling Canister Type & Size (if applicable): 2.7 L Summa

Canister # 370 Regulator # 01702

Vacuum Pressure of Canister Prior to Sampling: -30.17

Vacuum Pressure of Canister After Sampling: -5.03

Temperature in Sampling Zone: 70º F

Apparent Moisture Content of Sampling Zone: Low

Soil Type in Sampling Zone: N/A

Standard Chain of Custody Procedures Used for Handling & Delivery of Samples to Laboratory:

■ Yes ☐ No. If no, provide reason(s) why?

Laboratory Name: Alpha Analytical

Analysis: TO-15

Comments:

Ambient air: 0.0ppm

Sample completed in western portion of building 4' north of basement staircase.

Sampler's Signature  Date: 03/29/2022

APPENDIX D

LABRATORY ANALYITICAL REPORT

ANALYTICAL REPORT

Lab Number:	L2217738
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	NYSDEC VIM STUDY
Project Number:	00101
Report Date:	06/01/22

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: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2217738-01	OA-1 (032922)	AIR	155 CHANDLER ST. BUFFALO NY	03/29/22 16:30	03/30/22
L2217738-02	SS-9(032922)	SOIL_VAPOR	155 CHANDLER ST. BUFFALO NY	03/29/22 16:40	03/30/22
L2217738-03	IA-9(032922)	AIR	155 CHANDLER ST. BUFFALO NY	03/29/22 16:45	03/30/22
L2217738-04	SS-10(032922)	SOIL_VAPOR	155 CHANDLER ST. BUFFALO NY	03/29/22 17:05	03/30/22
L2217738-05	IA-10 (032922)	AIR	155 CHANDLER ST. BUFFALO NY	03/29/22 16:55	03/30/22
L2217738-06	IA-7 (032922)	AIR	155 CHANDLER ST. BUFFALO NY	03/29/22 17:00	03/30/22
L2217738-07	SS-7(032922)	SOIL_VAPOR	155 CHANDLER ST. BUFFALO NY	03/29/22 17:00	03/30/22

Project Name:	NYSDEC VIM STUDY	**Lab Number:**	L2217738
Project Number:	00101	**Report Date:**	06/01/22

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:	NYSDEC VIM STUDY	**Lab Number:**	L2217738
Project Number:	00101	**Report Date:**	06/01/22

Case Narrative (continued)

Report Revision

June 1, 2022 the report has been amended to change sample IDs at the request of the client. A revised COC is included in this submittal.

Volatile Organics in Air

Canisters were released from the laboratory on March 28, 2022. The canister certification results are provided as an addendum.

L2217738-04D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to perform a screen analysis. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

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: 06/01/22

AIR

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-01
Client ID: OA-1 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 17:49
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.515	0.200	--	2.55	0.989	--		1
Chloromethane	0.539	0.200	--	1.11	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.48	1.00	--	3.52	2.38	--		1
Trichlorofluoromethane	0.210	0.200	--	1.18	1.12	--		1
Isopropanol	1.54	0.500	--	3.79	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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-01
Client ID: OA-1 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-01
Client ID: OA-1 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	100		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	104		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-01
Client ID: OA-1 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:30
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/10/22 17:49
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.090	0.020	--	0.566	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	101		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	105		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-02
Client ID: SS-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:40
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 22:58
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.552	0.200	--	2.73	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	7.86	5.00	--	14.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.75	1.00	--	13.7	2.38	--		1
Trichlorofluoromethane	0.279	0.200	--	1.57	1.12	--		1
Isopropanol	3.28	0.500	--	8.06	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	0.574	0.500	--	1.99	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.02	0.200	--	3.18	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	4.80	0.500	--	14.2	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-02
Client ID: SS-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:40
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.671	0.200	--	3.28	0.977	--		1
Tetrahydrofuran	2.88	0.500	--	8.49	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	7.54	0.200	--	26.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.70	0.200	--	5.43	0.639	--		1
Carbon tetrachloride	1.41	0.200	--	8.87	1.26	--		1
Cyclohexane	1.65	0.200	--	5.68	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	1.32	0.200	--	7.09	1.07	--		1
2,2,4-Trimethylpentane	0.341	0.200	--	1.59	0.934	--		1
Heptane	3.20	0.200	--	13.1	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	20.7	0.200	--	78.0	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	0.214	0.200	--	1.45	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.79	0.200	--	16.5	0.869	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-02
Client ID: SS-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:40
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	18.3	0.400	--	79.5	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	6.01	0.200	--	26.1	0.869	--		1
4-Ethyltoluene	1.54	0.200	--	7.57	0.983	--		1
1,3,5-Trimethylbenzene	1.32	0.200	--	6.49	0.983	--		1
1,2,4-Trimethylbenzene	5.68	0.200	--	27.9	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	98		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-03
Client ID: IA-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:45
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 21:03
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.543	0.200	--	2.69	0.989	--		1
Chloromethane	0.587	0.200	--	1.21	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	111	5.00	--	209	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.5	1.00	--	41.6	2.38	--		1
Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--		1
Isopropanol	96.4	0.500	--	237	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	0.602	0.200	--	2.94	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-03
Client ID: IA-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:45
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.200	0.200	--	0.639	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	0.276	0.200	--	1.13	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	0.366	0.200	--	1.38	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	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.456	0.400	--	1.98	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	0.234	0.200	--	1.02	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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-03
Client ID: IA-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:45
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	95		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	98		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-03
Client ID: IA-9(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:45
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/10/22 21:03
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.098	0.020	--	0.389	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	1.28	0.020	--	8.05	0.126	--		1
Trichloroethene	4.74	0.020	--	25.5	0.107	--		1
Tetrachloroethene	0.090	0.020	--	0.610	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	100		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-04 D
Client ID: SS-10(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:05
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 23:37
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.526	0.422	--	2.60	2.09	--		2.111
Chloromethane	2.15	0.422	--	4.44	0.871	--		2.111
Freon-114	ND	0.422	--	ND	2.95	--		2.111
Vinyl chloride	ND	0.422	--	ND	1.08	--		2.111
1,3-Butadiene	50.3	0.422	--	111	0.934	--		2.111
Bromomethane	ND	0.422	--	ND	1.64	--		2.111
Chloroethane	ND	0.422	--	ND	1.11	--		2.111
Ethanol	18.0	10.6	--	33.9	20.0	--		2.111
Vinyl bromide	ND	0.422	--	ND	1.85	--		2.111
Acetone	39.0	2.11	--	92.6	5.01	--		2.111
Trichlorofluoromethane	ND	0.422	--	ND	2.37	--		2.111
Isopropanol	6.84	1.06	--	16.8	2.61	--		2.111
1,1-Dichloroethene	ND	0.422	--	ND	1.67	--		2.111
Tertiary butyl Alcohol	ND	1.06	--	ND	3.21	--		2.111
Methylene chloride	ND	1.06	--	ND	3.68	--		2.111
3-Chloropropene	ND	0.422	--	ND	1.32	--		2.111
Carbon disulfide	43.5	0.422	--	135	1.31	--		2.111
Freon-113	ND	0.422	--	ND	3.23	--		2.111
trans-1,2-Dichloroethene	ND	0.422	--	ND	1.67	--		2.111
1,1-Dichloroethane	ND	0.422	--	ND	1.71	--		2.111
Methyl tert butyl ether	ND	0.422	--	ND	1.52	--		2.111
2-Butanone	7.87	1.06	--	23.2	3.13	--		2.111
cis-1,2-Dichloroethene	ND	0.422	--	ND	1.67	--		2.111

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-04 D
Client ID: SS-10(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:05
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.06	--	ND	3.82	--		2.111
Chloroform	0.483	0.422	--	2.36	2.06	--		2.111
Tetrahydrofuran	ND	1.06	--	ND	3.13	--		2.111
1,2-Dichloroethane	ND	0.422	--	ND	1.71	--		2.111
n-Hexane	132	0.422	--	465	1.49	--		2.111
1,1,1-Trichloroethane	ND	0.422	--	ND	2.30	--		2.111
Benzene	41.7	0.422	--	133	1.35	--		2.111
Carbon tetrachloride	0.684	0.422	--	4.30	2.65	--		2.111
Cyclohexane	68.4	0.422	--	235	1.45	--		2.111
1,2-Dichloropropane	ND	0.422	--	ND	1.95	--		2.111
Bromodichloromethane	ND	0.422	--	ND	2.83	--		2.111
1,4-Dioxane	ND	0.422	--	ND	1.52	--		2.111
Trichloroethene	4.36	0.422	--	23.4	2.27	--		2.111
2,2,4-Trimethylpentane	ND	0.422	--	ND	1.97	--		2.111
Heptane	109	0.422	--	447	1.73	--		2.111
cis-1,3-Dichloropropene	ND	0.422	--	ND	1.92	--		2.111
4-Methyl-2-pentanone	ND	1.06	--	ND	4.34	--		2.111
trans-1,3-Dichloropropene	ND	0.422	--	ND	1.92	--		2.111
1,1,2-Trichloroethane	ND	0.422	--	ND	2.30	--		2.111
Toluene	86.0	0.422	--	324	1.59	--		2.111
2-Hexanone	ND	0.422	--	ND	1.73	--		2.111
Dibromochloromethane	ND	0.422	--	ND	3.60	--		2.111
1,2-Dibromoethane	ND	0.422	--	ND	3.24	--		2.111
Tetrachloroethene	ND	0.422	--	ND	2.86	--		2.111
Chlorobenzene	ND	0.422	--	ND	1.94	--		2.111
Ethylbenzene	9.80	0.422	--	42.6	1.83	--		2.111

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-04 D
Client ID: SS-10(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:05
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	40.2	0.844	--	175	3.67	--		2.111
Bromoform	ND	0.422	--	ND	4.36	--		2.111
Styrene	ND	0.422	--	ND	1.80	--		2.111
1,1,2,2-Tetrachloroethane	ND	0.422	--	ND	2.90	--		2.111
o-Xylene	10.2	0.422	--	44.3	1.83	--		2.111
4-Ethyltoluene	1.97	0.422	--	9.68	2.07	--		2.111
1,3,5-Trimethylbenzene	1.41	0.422	--	6.93	2.07	--		2.111
1,2,4-Trimethylbenzene	5.55	0.422	--	27.3	2.07	--		2.111
Benzyl chloride	ND	0.422	--	ND	2.19	--		2.111
1,3-Dichlorobenzene	ND	0.422	--	ND	2.54	--		2.111
1,4-Dichlorobenzene	ND	0.422	--	ND	2.54	--		2.111
1,2-Dichlorobenzene	ND	0.422	--	ND	2.54	--		2.111
1,2,4-Trichlorobenzene	ND	0.422	--	ND	3.13	--		2.111
Hexachlorobutadiene	ND	0.422	--	ND	4.50	--		2.111

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	102		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-05
Client ID: IA-10 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:55
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 21:41
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.546	0.200	--	2.70	0.989	--		1
Chloromethane	0.594	0.200	--	1.23	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	76.4	5.00	--	144	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	37.4	1.00	--	88.8	2.38	--		1
Trichlorofluoromethane	0.232	0.200	--	1.30	1.12	--		1
Isopropanol	221	0.500	--	543	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	0.551	0.500	--	1.99	1.80	--		1
Chloroform	0.373	0.200	--	1.82	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-05
Client ID: IA-10 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:55
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.214	0.200	--	0.684	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	0.290	0.200	--	1.09	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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-05
Client ID: IA-10 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:55
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	99		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	103		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-05
Client ID: IA-10 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 16:55
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/10/22 21:41
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.121	0.020	--	0.480	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.815	0.020	--	5.13	0.126	--		1
Trichloroethene	7.29	0.020	--	39.2	0.107	--		1
Tetrachloroethene	0.045	0.020	--	0.305	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	104		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-06
Client ID: IA-7 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/10/22 22:20
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.545	0.200	--	2.69	0.989	--		1
Chloromethane	0.600	0.200	--	1.24	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	123	5.00	--	232	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	27.6	1.00	--	65.6	2.38	--		1
Trichlorofluoromethane	0.233	0.200	--	1.31	1.12	--		1
Isopropanol	151	0.500	--	371	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.681	0.500	--	2.01	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.288	0.200	--	1.41	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-06
Client ID: IA-7 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.414	0.200	--	1.56	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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-06
Client ID: IA-7 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	101		60-140
chlorobenzene-d5	97		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-06
Client ID: IA-7 (032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/10/22 22:20
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.093	0.020	--	0.369	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.629	0.020	--	3.96	0.126	--		1
Trichloroethene	4.48	0.020	--	24.1	0.107	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	98		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-07
Client ID: SS-7(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/11/22 00:15
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.519	0.200	--	2.57	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	1.84	1.00	--	4.37	2.38	--		1
Trichlorofluoromethane	0.270	0.200	--	1.52	1.12	--		1
Isopropanol	1.52	0.500	--	3.74	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	1.11	0.500	--	3.27	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-07
Client ID: SS-7(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	0.622	0.500	--	2.24	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	9.26	0.200	--	32.6	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.60	0.200	--	8.31	0.639	--		1
Carbon tetrachloride	0.496	0.200	--	3.12	1.26	--		1
Cyclohexane	2.52	0.200	--	8.67	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	1.66	0.200	--	8.92	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	3.50	0.200	--	14.3	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	22.9	0.200	--	86.3	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	3.80	0.200	--	16.5	0.869	--		1

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

SAMPLE RESULTS

Lab ID: L2217738-07
Client ID: SS-7(032922)
Sample Location: 155 CHANDLER ST. BUFFALO NY

Date Collected: 03/29/22 17:00
Date Received: 03/30/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	18.4	0.400	--	79.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	5.84	0.200	--	25.4	0.869	--		1
4-Ethyltoluene	1.26	0.200	--	6.19	0.983	--		1
1,3,5-Trimethylbenzene	1.29	0.200	--	6.34	0.983	--		1
1,2,4-Trimethylbenzene	5.24	0.200	--	25.8	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	92		60-140
chlorobenzene-d5	90		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/10/22 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1625613-4								
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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/10/22 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1625613-4								
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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/10/22 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-07 Batch: WG1625613-4								
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: NYSDEC VIM STUDY
Project Number: 00101
Lab Number: L2217738
Report Date: 06/01/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 04/10/22 15:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05-06 Batch: WG1625614-4								
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: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1625613-3								
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	94		-		70-130	-		
Freon-114	101		-		70-130	-		
Vinyl chloride	82		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	82		-		70-130	-		
Ethanol	116		-		40-160	-		
Vinyl bromide	89		-		70-130	-		
Acetone	96		-		40-160	-		
Trichlorofluoromethane	103		-		70-130	-		
Isopropanol	90		-		40-160	-		
1,1-Dichloroethene	92		-		70-130	-		
Tertiary butyl Alcohol	82		-		70-130	-		
Methylene chloride	101		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	98		-		70-130	-		
trans-1,2-Dichloroethene	84		-		70-130	-		
1,1-Dichloroethane	88		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	86		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1625613-3								
Ethyl Acetate	88		-		70-130	-		
Chloroform	107		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
1,2-Dichloroethane	94		-		70-130	-		
n-Hexane	96		-		70-130	-		
1,1,1-Trichloroethane	110		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	119		-		70-130	-		
Cyclohexane	98		-		70-130	-		
1,2-Dichloropropane	94		-		70-130	-		
Bromodichloromethane	114		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	110		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Heptane	97		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	99		-		70-130	-		
trans-1,3-Dichloropropene	100		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	96		-		70-130	-		
2-Hexanone	95		-		70-130	-		
Dibromochloromethane	115		-		70-130	-		
1,2-Dibromoethane	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-07 Batch: WG1625613-3								
Tetrachloroethene	115		-		70-130	-		
Chlorobenzene	106		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	118		-		70-130	-		
Styrene	103		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	102		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Benzyl chloride	97		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	110		-		70-130	-		
1,2-Dichlorobenzene	112		-		70-130	-		
1,2,4-Trichlorobenzene	114		-		70-130	-		
Hexachlorobutadiene	119		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05-06 Batch: WG1625614-3								
Vinyl chloride	86		-		70-130	-		25
1,1-Dichloroethene	96		-		70-130	-		25
cis-1,2-Dichloroethene	94		-		70-130	-		25
1,1,1-Trichloroethane	119		-		70-130	-		25
Carbon tetrachloride	110		-		70-130	-		25
Trichloroethene	111		-		70-130	-		25
Tetrachloroethene	117		-		70-130	-		25

Project Name: NYSDEC VIM STUDY

Lab Number: L2217738

Project Number: 00101

Report Date: 06/01/22

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2217738-01	OA-1 (032922)	0771	Flow 5	03/28/22	382387		-	-	-	Pass	4.5	1.2	116
L2217738-01	OA-1 (032922)	2300	2.7L Can	03/28/22	382387	L2214467-04	Pass	-28.9	-5.7	-	-	-	-
L2217738-02	SS-9(032922)	01661	Flow 4	03/28/22	382387		-	-	-	Pass	4.5	4.8	6
L2217738-02	SS-9(032922)	3198	2.7L Can	03/28/22	382387	L2214467-04	Pass	-28.2	-6.7	-	-	-	-
L2217738-03	IA-9(032922)	0095	Flow 5	03/28/22	382387		-	-	-	Pass	4.5	3.1	37
L2217738-03	IA-9(032922)	559	2.7L Can	03/28/22	382387	L2214467-04	Pass	-28.8	-8.4	-	-	-	-
L2217738-04	SS-10(032922)	01536	Flow 4	03/28/22	382387		-	-	-	Pass	4.5	0.0	200
L2217738-04	SS-10(032922)	133	2.7L Can	03/28/22	382387	L2214467-04	Pass	-28.9	-14.4	-	-	-	-
L2217738-05	IA-10 (032922)	01702	Flow 4	03/28/22	382387		-	-	-	Pass	4.5	4.7	4
L2217738-05	IA-10 (032922)	370	2.7L Can	03/28/22	382387	L2214467-04	Pass	-29.0	-4.8	-	-	-	-
L2217738-06	IA-7 (032922)	02225	Flow 4	03/28/22	382387		-	-	-	Pass	4.5	4.1	9
L2217738-06	IA-7 (032922)	2072	2.7L Can	03/28/22	382387	L2214467-04	Pass	-29.0	-9.2	-	-	-	-
L2217738-07	SS-7(032922)	0915	Flow 5	03/28/22	382387		-	-	-	Pass	4.5	4.6	2
L2217738-07	SS-7(032922)	145	2.7L Can	03/28/22	382387	L2214467-04	Pass	-29.0	-8.1	-	-	-	-

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

Lab Number: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/21/22 23:44
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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 **Lab Number:** L2214467

Project Number: CANISTER QC BAT **Report Date:** 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	97		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/21/22 23:44
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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 **Lab Number:** L2214467

Project Number: CANISTER QC BAT **Report Date:** 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.100	--	ND	0.377	--		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-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		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: L2214467
Report Date: 06/01/22

Air Canister Certification Results

Lab ID: L2214467-04
Client ID: CAN 2074 SHELF 13
Sample Location:

Date Collected: 03/21/22 09:00
Date Received: 03/21/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	94		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	93		60-140

Project Name: NYSDEC VIM STUDY
Project Number: 00101

Lab Number: L2217738
Report Date: 06/01/22

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(*)
L2217738-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2217738-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2217738-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2217738-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2217738-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2217738-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2217738-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	NYSDEC VIM STUDY	**Lab Number:**	L2217738
Project Number:	00101	**Report Date:**	06/01/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	NYSDEC VIM STUDY	**Lab Number:**	L2217738
Project Number:	00101	**Report Date:**	06/01/22

Footnotes

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

Terms

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

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

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 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. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	NYSDEC VIM STUDY	**Lab Number:**	L2217738
Project Number:	00101	**Report Date:**	06/01/22

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

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, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; 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.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

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, EPA 537.1.

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

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 3/30/22

ALPHA Job #: L2217738

Client Information

Client: Env. Advantage Inc.
Address: 3636 N Buffalo Rd.
Orchard Park NY 14127
Phone: 716-667-3130
Fax: 716-667-3156
Email: mhanna@envadvantage.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NYSDEC VIM study
Project Location: 155 chandler st. Buffalo NY
Project #: 00101
Project Manager: Mark Hanna + Mary Szuster
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☒ Same as Client info PO #: 00101

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 End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subtract Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
17738-01	OA-1 (032922)	3/29/22	8:30am	4:30pm	-30.09"	-6.99"	AA	EB	2.7L	2300	0771	X					
02	SS-9 (032922)		8:48am	4:40pm	-29.38"	-7.75"	SV	EB	2.7L	3198	01661	X					0.0 ppm
03	IA-9 (032922)		8:45am	4:45pm	-30.08"	-8.60"	AA	EB	2.7L	559	0095	X					
04	SS-10 (032922)		8:50am	5:05pm	-29.40"	-15.30"	SV	EB	2.7L	133	01536	X					15 ppm
05	IA-10 (032922)		8:55am	4:55pm	-30.17"	-5.03"	AA	EB	2.7L	370	01702	X					
06	IA-7 (032922)		9:00am	5:00pm	-30.30"	-9.30"	AA	EB	2.7L	2072	0225	X					
07	SS-7 (032922)		9:00am	5:00pm	-30.43"	-9.20"	SV	EB	2.7L	145	0915	X					1 ppm

*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:
AAL	3/30/22 13:55	AAL	3/30/22 13:55
AAL	3/30/22 15:50		3/30/22 1556

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.

Form No: 101-02 Rev. (25-Sep-15)

APPENDIX E

PHOTOGRAPHS

1. 03/29/2022: Storage/keg room on east side of cidery.

2. 03/29/2022: Storage/keg room on east side of cidery.

3. 03/29/2022: Storage/keg on east side of cidery with IA-7(032922) and SS-7(032922) in place.

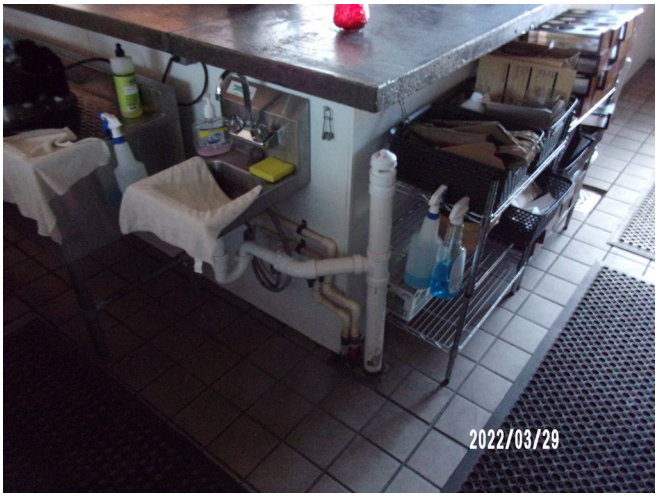
4. 03/29/2022: Storage/keg room from perspective of main entrance into bar area looking east.

5. 03/29/2022: Door to storage/keg room is sealed with poly sheeting and duct tape to prevent air flow.

6. 03/29/2022: Door to storage/keg room is sealed with poly sheeting and duct tape to prevent air flow.

7.	03/29/2022: Main dinning/drinking area of barroom in southern portion of cidery.

8.	03/29/2022: View of bar from the main dinning/drinking area.



9.	03/29/2022: Plumbing located behind the main bar area.

10.	03/29/2022: Plumbing located behind the main bar area.

11.	03/29/2022: View of IA-9(032922) & SS-9(032922) in main dinning/drinking area adjacent to bar.

12.	03/29/2022: View of IA-9(032922) & SS-9(032922) in main dinning/drinking area adjacent to bar with doors closed to prevent air flow.

13.	03/29/2022: View of northern room with kitchen looking north with floor drain.

14.	03/29/2022: View of kitchen area adjacent to the closed doors of the bar room.

15.	03/29/2022: Kitchen area looking west at door sealed with poly to prevent air flow.

16.	03/29/2022: Kitchen area plumbing along with sanitation drain.

17.	03/29/2022: Kitchen area plumbing.

18.	03/29/2022: Northern kitchen area looking west at the entrance to the mezzanine area covered with poly to prevent air flow.

19.	03/29/2022: Entrance to entertainment/mezzanine area from kitchen area (prior to poly sealing).

20.	03/29/2022: View mezzanine floor looking south. Left stairwell goes to basement.

21.	03/29/2022: IA-10(032922) on first floor adjacent to basement stairs. Basement is walled off by plywood.

22.	03/29/2022: SS-10(032922) at the bottom of the stairs on the left side of the previous picture.

23.	01/25/2018: View of basement level below the mezzanine from 2018 Site Inspection.

24.	04/26/2022: View of the current basement setting. Utilized as storage room for ODL across the hall.

APPENDIX F

DATA USABILITY SUMMARY REPORT

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

155 Chandler St.
SDG#L2217738
May 31, 2022
Reissued: June 6, 2022
Sampling date: 3/29/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued: June 6, 2022) for Environmental Advantage, project located at 155 Chandler St., Alpha Analytical, SDG#L2217738 submitted to Vali-Data of WNY, LLC on April 20, 2022. 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.

ID	Sample ID	Laboratory ID
1	OA-1 (032922)	L2217738-01
2	SS-9(032922)	L2217738-02
3	IA-9(032922)	L2217738-03
4	SS-10(032922)	L2217738-04
5	IA-10(032922)	L2217738-05
6	IA-7(032922)	L2217738-06
7	SS-7(032922)	L2217738-07

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.

Sample: DUSR ID#4 was diluted due to pressurization of the can.

All results were recorded to the reporting limits.

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.

INTERNAL STANDARD (IS)
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD/DUPLICATE
No MS/MSD/Duplicate was acquired.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except a target analyte was outside QC limits in the initial calibration verification off instrument, Airlab16. This target analyte should be qualified as estimated in the associated blanks, spikes and samples.

ICV instrument	Target Analyte	%D	Qualifier	Associated Sample
Airlab16	Acetone	-32.0	UJ/J	WG1625613, 1-7

CONTINUING CALIBRATION
All criteria were met.

GC/MS PERFORMANCE CHECK
All criteria were met.

CANISTER CERTIFICATION BLANKS
All criteria were met.

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Revision

June 1, 2022 the report has been amended to change sample IDs at the request of the client. A revised COC is included in this submittal.

Volatile Organics in Air

Canisters were released from the laboratory on March 28, 2022. The canister certification results are provided as an addendum.

L2217738-04D: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to perform a screen analysis. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

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 Report Date: 06/01/22

Title: Technical Director/Representative

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-01	Date Collected	: 03/29/22 16:30
Client ID	: OA-1 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 17:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630096	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.515	0.200	--	2.55	0.989	--	
74-87-3	Chloromethane	0.539	0.200	--	1.11	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.48	1.00	--	3.52	2.38	--	
75-69-4	Trichlorofluoromethane	0.210	0.200	--	1.18	1.12	--	
67-63-0	Isopropanol	1.54	0.500	--	3.79	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-01	Date Collected	: 03/29/22 16:30
Client ID	: OA-1 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 17:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630096	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-01	**Date Collected**	: 03/29/22 16:30
Client ID	: OA-1 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 17:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630096	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-02	Date Collected	: 03/29/22 16:40
Client ID	: SS-9(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 22:58
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630104	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.552	0.200	--	2.73	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	7.86	5.00	--	14.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.75	1.00	--	13.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.279	0.200	--	1.57	1.12	--	
67-63-0	Isopropanol	3.28	0.500	--	8.06	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.574	0.500	--	1.99	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	1.02	0.200	--	3.18	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.80	0.500	--	14.2	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.671	0.200	--	3.28	0.977	--	
109-99-9	Tetrahydrofuran	2.88	0.500	--	8.49	1.47	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-02	Date Collected	: 03/29/22 16:40
Client ID	: SS-9(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 22:58
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630104	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	7.54	0.200	--	26.6	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	1.70	0.200	--	5.43	0.639	--	
56-23-5	Carbon tetrachloride	1.41	0.200	--	8.87	1.26	--	
110-82-7	Cyclohexane	1.65	0.200	--	5.68	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	1.32	0.200	--	7.09	1.07	--	
540-84-1	2,2,4-Trimethylpentane	0.341	0.200	--	1.59	0.934	--	
142-82-5	Heptane	3.20	0.200	--	13.1	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	20.7	0.200	--	78.0	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	0.214	0.200	--	1.45	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	3.79	0.200	--	16.5	0.869	--	
179601-23-1	p/m-Xylene	18.3	0.400	--	79.5	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-02	**Date Collected**	: 03/29/22 16:40
Client ID	: SS-9(032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 22:58
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630104	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	6.01	0.200	--	26.1	0.869	--	
622-96-8	4-Ethyltoluene	1.54	0.200	--	7.57	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	1.32	0.200	--	6.49	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	5.68	0.200	--	27.9	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-03	Date Collected	: 03/29/22 16:45
Client ID	: IA-9(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 21:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630101	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.543	0.200	--	2.69	0.989	--	
74-87-3	Chloromethane	0.587	0.200	--	1.21	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	111	5.00	--	209	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	17.5	1.00	--	41.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.246	0.200	--	1.38	1.12	--	
67-63-0	Isopropanol	96.4	0.500	--	237	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.602	0.200	--	2.94	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.200	0.200	--	0.639	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-03	Date Collected	: 03/29/22 16:45
Client ID	: IA-9(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 21:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630101	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.276	0.200	--	1.13	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.366	0.200	--	1.38	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.456	0.400	--	1.98	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.234	0.200	--	1.02	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-03	**Date Collected**	: 03/29/22 16:45
Client ID	: IA-9(032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 21:03
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630101	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-04D	Date Collected	: 03/29/22 17:05
Client ID	: SS-10(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 23:37
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 2.111
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630105	Instrument ID	: AIRLAB16
Sample Amount	: 118 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.526	0.422	--	2.60	2.09	--	
74-87-3	Chloromethane	2.15	0.422	--	4.44	0.871	--	
76-14-2	Freon-114	ND	0.422	--	ND	2.95	--	U
75-01-4	Vinyl chloride	ND	0.422	--	ND	1.08	--	U
106-99-0	1,3-Butadiene	50.3	0.422	--	111	0.934	--	
74-83-9	Bromomethane	ND	0.422	--	ND	1.64	--	U
75-00-3	Chloroethane	ND	0.422	--	ND	1.11	--	U
64-17-5	Ethanol	18.0	10.6	--	33.9	20.0	--	
593-60-2	Vinyl bromide	ND	0.422	--	ND	1.85	--	U
67-64-1	Acetone	39.0	2.11	--	92.6	5.01	--	
75-69-4	Trichlorofluoromethane	ND	0.422	--	ND	2.37	--	U
67-63-0	Isopropanol	6.84	1.06	--	16.8	2.61	--	
75-35-4	1,1-Dichloroethene	ND	0.422	--	ND	1.67	--	U
75-65-0	Tertiary butyl Alcohol	ND	1.06	--	ND	3.21	--	U
75-09-2	Methylene chloride	ND	1.06	--	ND	3.68	--	U
107-05-1	3-Chloropropene	ND	0.422	--	ND	1.32	--	U
75-15-0	Carbon disulfide	43.5	0.422	--	135	1.31	--	
76-13-1	Freon-113	ND	0.422	--	ND	3.23	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.422	--	ND	1.67	--	U
75-34-3	1,1-Dichloroethane	ND	0.422	--	ND	1.71	--	U
1634-04-4	Methyl tert butyl ether	ND	0.422	--	ND	1.52	--	U
78-93-3	2-Butanone	7.87	1.06	--	23.2	3.13	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.422	--	ND	1.67	--	U
141-78-6	Ethyl Acetate	ND	1.06	--	ND	3.82	--	U
67-66-3	Chloroform	0.483	0.422	--	2.36	2.06	--	
109-99-9	Tetrahydrofuran	ND	1.06	--	ND	3.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-04D	Date Collected	: 03/29/22 17:05
Client ID	: SS-10(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 23:37
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 2.111
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630105	Instrument ID	: AIRLAB16
Sample Amount	: 118 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.422	--	ND	1.71	--	U
110-54-3	n-Hexane	132	0.422	--	465	1.49	--	
71-55-6	1,1,1-Trichloroethane	ND	0.422	--	ND	2.30	--	U
71-43-2	Benzene	41.7	0.422	--	133	1.35	--	
56-23-5	Carbon tetrachloride	0.684	0.422	--	4.30	2.65	--	
110-82-7	Cyclohexane	68.4	0.422	--	235	1.45	--	
78-87-5	1,2-Dichloropropane	ND	0.422	--	ND	1.95	--	U
75-27-4	Bromodichloromethane	ND	0.422	--	ND	2.83	--	U
123-91-1	1,4-Dioxane	ND	0.422	--	ND	1.52	--	U
79-01-6	Trichloroethene	4.36	0.422	--	23.4	2.27	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.422	--	ND	1.97	--	U
142-82-5	Heptane	109	0.422	--	447	1.73	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.422	--	ND	1.92	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.06	--	ND	4.34	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.422	--	ND	1.92	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.422	--	ND	2.30	--	U
108-88-3	Toluene	86.0	0.422	--	324	1.59	--	
591-78-6	2-Hexanone	ND	0.422	--	ND	1.73	--	U
124-48-1	Dibromochloromethane	ND	0.422	--	ND	3.60	--	U
106-93-4	1,2-Dibromoethane	ND	0.422	--	ND	3.24	--	U
127-18-4	Tetrachloroethene	ND	0.422	--	ND	2.86	--	U
108-90-7	Chlorobenzene	ND	0.422	--	ND	1.94	--	U
100-41-4	Ethylbenzene	9.80	0.422	--	42.6	1.83	--	
179601-23-1	p/m-Xylene	40.2	0.844	--	175	3.67	--	
75-25-2	Bromoform	ND	0.422	--	ND	4.36	--	U
100-42-5	Styrene	ND	0.422	--	ND	1.80	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-04D	**Date Collected**	: 03/29/22 17:05
Client ID	: SS-10(032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 23:37
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 2.111
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630105	**Instrument ID**	: AIRLAB16
Sample Amount	: 118 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.422	--	ND	2.90	--	U
95-47-6	o-Xylene	10.2	0.422	--	44.3	1.83	--	
622-96-8	4-Ethyltoluene	1.97	0.422	--	9.68	2.07	--	
108-67-8	1,3,5-Trimethylbenzene	1.41	0.422	--	6.93	2.07	--	
95-63-6	1,2,4-Trimethylbenzene	5.55	0.422	--	27.3	2.07	--	
100-44-7	Benzyl chloride	ND	0.422	--	ND	2.19	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.422	--	ND	2.54	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.422	--	ND	2.54	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.422	--	ND	2.54	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.422	--	ND	3.13	--	U
87-68-3	Hexachlorobutadiene	ND	0.422	--	ND	4.50	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-05	Date Collected	: 03/29/22 16:55
Client ID	: IA-10 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 21:41
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630102	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.546	0.200	--	2.70	0.989	--	
74-87-3	Chloromethane	0.594	0.200	--	1.23	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	76.4	5.00	--	144	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	37.4	1.00	--	88.8	2.38	--	
75-69-4	Trichlorofluoromethane	0.232	0.200	--	1.30	1.12	--	
67-63-0	Isopropanol	221	0.500	--	543	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.551	0.500	--	1.99	1.80	--	
67-66-3	Chloroform	0.373	0.200	--	1.82	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.214	0.200	--	0.684	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-05	Date Collected	: 03/29/22 16:55
Client ID	: IA-10 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 21:41
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630102	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.290	0.200	--	1.09	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-05	**Date Collected**	: 03/29/22 16:55
Client ID	: IA-10 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 21:41
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630102	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-06	Date Collected	: 03/29/22 17:00
Client ID	: IA-7 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 22:20
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630103	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.545	0.200	--	2.69	0.989	--	
74-87-3	Chloromethane	0.600	0.200	--	1.24	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	123	5.00	--	232	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	27.6	1.00	--	65.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.233	0.200	--	1.31	1.12	--	
67-63-0	Isopropanol	151	0.500	--	371	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.681	0.500	--	2.01	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.288	0.200	--	1.41	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-06	Date Collected	: 03/29/22 17:00
Client ID	: IA-7 (032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/10/22 22:20
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630103	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.414	0.200	--	1.56	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-06	**Date Collected**	: 03/29/22 17:00
Client ID	: IA-7 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 22:20
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630103	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-07	Date Collected	: 03/29/22 17:00
Client ID	: SS-7(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/11/22 00:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630106	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.519	0.200	--	2.57	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.84	1.00	--	4.37	2.38	--	
75-69-4	Trichlorofluoromethane	0.270	0.200	--	1.52	1.12	--	
67-63-0	Isopropanol	1.52	0.500	--	3.74	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.11	0.500	--	3.27	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	0.622	0.500	--	2.24	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: L2217738-07	Date Collected	: 03/29/22 17:00
Client ID	: SS-7(032922)	Date Received	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	Date Analyzed	: 04/11/22 00:15
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630106	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	9.26	0.200	--	32.6	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	2.60	0.200	--	8.31	0.639	--	
56-23-5	Carbon tetrachloride	0.496	0.200	--	3.12	1.26	--	
110-82-7	Cyclohexane	2.52	0.200	--	8.67	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	1.66	0.200	--	8.92	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	3.50	0.200	--	14.3	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	22.9	0.200	--	86.3	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	3.80	0.200	--	16.5	0.869	--	
179601-23-1	p/m-Xylene	18.4	0.400	--	79.9	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-07	**Date Collected**	: 03/29/22 17:00
Client ID	: SS-7(032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/11/22 00:15
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TS
Lab File ID	: R1630106	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	5.84	0.200	--	25.4	0.869	--	
622-96-8	4-Ethyltoluene	1.26	0.200	--	6.19	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	1.29	0.200	--	6.34	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	5.24	0.200	--	25.8	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: WG1625613-4	Date Collected	: NA
Client ID	: WG1625613-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/10/22 15:14
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630094	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: WG1625613-4	Date Collected	: NA
Client ID	: WG1625613-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/10/22 15:14
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630094	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Environmental Advantage, Inc.	Lab Number	: L2217738
Project Name	: NYSDEC VIM STUDY	Project Number	: 00101
Lab ID	: WG1625613-4	Date Collected	: NA
Client ID	: WG1625613-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/10/22 15:14
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TS
Lab File ID	: R1630094	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2022\03\0309T_I\
Data File : r1629381.D
Acq On : 9 Mar 2022 11:48 PM
Operator : AIRLAB16:RY
Sample : CTO15-LLSTD010
Misc : WG1614549
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 11 13:49:00 2022
Quant Method : O:\Forensics\Data\Airlab16\2022\03\0309T_I\TFS16_220309.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Mar 10 19:22:17 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	90	0.00
2		chlorodifluoromethane	0.752	0.659	12.4	79	0.01
3		propylene	0.419	0.526	-25.5	116	0.00
4		propane	0.609	0.514	15.6	77	0.00
5		dichlorodifluoromethane	0.998	0.998	0.0	89	0.01
6	C	chloromethane	0.481	0.484	-0.6	90	0.00
7		Freon-114	1.308	1.348	-3.1	91	0.01
8	C	methanol	0.289	0.247	14.5	75	0.02
9	C	vinyl chloride	0.685	0.733	-7.0	93	0.00
10	C	1,3-butadiene	0.447	0.472	-5.6	93	0.01
11		butane	0.823	0.843	-2.4	93	0.01
13	C	bromomethane	0.553	0.552	0.2	87	0.00
14	C	chloroethane	0.351	0.396	-12.8	101	0.01
15		ethanol	0.388	0.322	17.0	72	0.02
16		dichlorofluoromethane	1.125	1.257	-11.7	94	0.00
17	C	vinyl bromide	0.513	0.579	-12.9	101	0.00
18	C	acrolein	0.276	0.244	11.6	78	0.01
19		acetone	0.641	0.846	-32.0#	121	0.00
20	C	acetonitrile	0.504	0.563	-11.7	98	0.02
21		trichlorofluoromethane	0.986	1.083	-9.8	96	0.00
22		isopropyl alcohol	0.738	0.924	-25.2	113	0.01
23	C	acrylonitrile	0.464	0.438	5.6	83	0.00
24		pentane	1.035	1.136	-9.8	102	0.01
25		ethyl ether	1.326	1.186	10.6	78	0.00
26	C	1,1-dichloroethene	0.917	1.003	-9.4	95	0.00
27		tertiary butyl alcohol	1.176	1.209	-2.8	91	0.01
28	C	methylene chloride	0.569	0.572	-0.5	89	0.00
29	C	3-chloropropene	0.721	0.871	-20.8	108	0.00
30	C	carbon disulfide	1.534	1.608	-4.8	93	0.00
31		Freon 113	1.100	1.275	-15.9	102	0.01
32		trans-1,2-dichloroethene	0.947	1.008	-6.4	94	0.00
33	C	1,1-dichloroethane	1.135	1.285	-13.2	100	0.00
34	C	MTBE	1.273	1.464	-15.0	102	0.00
35	C	vinyl acetate	1.069	1.026	4.0	92	0.00
36	C	2-butanone	1.149	1.183	-3.0	95	0.00
37		cis-1,2-dichloroethene	0.866	0.960	-10.9	97	0.00
38		Ethyl Acetate	0.224	0.261	-16.5	95	0.00
39	C	chloroform	0.931	0.968	-4.0	91	0.00
40		Tetrahydrofuran	0.680	0.740	-8.8	101	0.00

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-01	**Date Collected**	: 03/29/22 16:30
Client ID	: OA-1 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 17:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TS
Lab File ID	: R1630096_EV2	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-03	**Date Collected**	: 03/29/22 16:45
Client ID	: IA-9(032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 21:03
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TS
Lab File ID	: R1630101_EV2	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.098	0.020	--	0.389	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	1.28	0.020	--	8.05	0.126	--	
79-01-6	Trichloroethene	4.74	0.020	--	25.5	0.107	--	
127-18-4	Tetrachloroethene	0.090	0.020	--	0.610	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-05	**Date Collected**	: 03/29/22 16:55
Client ID	: IA-10 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 21:41
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TS
Lab File ID	: R1630102_EV2	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.121	0.020	--	0.480	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.815	0.020	--	5.13	0.126	--	
79-01-6	Trichloroethene	7.29	0.020	--	39.2	0.107	--	
127-18-4	Tetrachloroethene	0.045	0.020	--	0.305	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: L2217738-06	**Date Collected**	: 03/29/22 17:00
Client ID	: IA-7 (032922)	**Date Received**	: 03/30/22
Sample Location	: 155 CHANDLER ST. BUFFALO NY	**Date Analyzed**	: 04/10/22 22:20
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TS
Lab File ID	: R1630103_EV2	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.093	0.020	--	0.369	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.629	0.020	--	3.96	0.126	--	
79-01-6	Trichloroethene	4.48	0.020	--	24.1	0.107	--	
127-18-4	Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Environmental Advantage, Inc.	**Lab Number**	: L2217738
Project Name	: NYSDEC VIM STUDY	**Project Number**	: 00101
Lab ID	: WG1625614-4	**Date Collected**	: NA
Client ID	: WG1625614-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/10/22 15:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TS
Lab File ID	: R1630095_EV2	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U