

November 12, 2024

Megan Kuczka, DER Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
700 Delaware Avenue
Buffalo, New York 14209

Re: **Periodic Review Report – April 2023 – July 2024; DEC Site #C915312**
Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, New York

Dear Ms. Kuczka:

In accordance with the Site Management Plan (NYSDEC Site Number: C915312), Section 7.2 Periodic Review Report, and NYSDEC's March 12, 2024 letter to Mr. Rocco Termini regarding the preparation and submittal of a Site Management Periodic Review Report and IC/EC Certification, please find attached a Revised Periodic Review Report that includes the appropriate certifications and the 2023-2024 Routine Progress Report.

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

Very truly yours,
ENVIRONMENTAL ADVANTAGE, INC.



C. Mark Hanna, CHMM
President

Attachments

cc: R. Termini
J. Rothschild
J. Schenne
C. Curtis
S. Selmer (NYSDOH)

Periodic Review Report

April 27, 2023 – July 9, 2024 Reporting Period

Pierce Arrow Business Center

155-157 Chandler Street
Buffalo, New York 14207

NYSDEC Site Number: C915312

Prepared by:

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

July 31, 2024

Revised November 12, 2024

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Certifications

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER¹;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control;
- Access to the Site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices;
- No new information has come to the remedial party (site owners) attention, including groundwater monitoring data from wells located at the Site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-Site contamination are no longer valid; and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, C. Mark Hanna, CHMM, President of Environmental Advantage, Inc., 3636 N. Buffalo Road, Orchard Park, NY 14127, am certifying as Owner's/Remedial Party's Designated Site Representative.

<u>0696</u>		<u>November 12, 2024</u>
CHMM Certification #	Signature	Date

¹ "DER-10/Technical Guidance for Site Investigation and Remediation" prepared by New York State Department of Environmental Conservation (NYSDEC), dated May 3, 2020.

1.0 SITE OVERVIEW

1.1 Site Summary

The Pierce Arrow Business Center Property ("Site") is an approximately 2.35 acre property located at 155-157 Chandler Street in the City of Buffalo, Erie County, New York. The Site location and boundaries are provided in Figure 1 and Figure 2, located in Appendix A. 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. The Site is zoned D-C Flex Commercial, which permits Residential, Retail, and Service, and Light Industrial uses. Currently, the site is used for mixed commercial and residential use. The neighborhood surrounding the Site primarily includes light industrial, commercial, and residential properties.

1.2 Site Remedial History

The Site building was originally constructed in 1907 and utilized as a factory occupied by Linde Air Products until the early-1950s. Bell Aircraft Corp. occupied the Site in the early-to-mid 1950s, which was then 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.

Brownfield Cleanup Agreement (BCA Index No. C915312-02-17²) was executed on April 24, 2017 for the Site, which identified the property as Site # C915312 with the New York State Department of Environmental Conservation (NYSDEC) under the Brownfield Cleanup Program (BCP). An amendment to the BCA was later executed on September 21, 2017³. Hazard Evaluations Inc. (HEI), in association with Schenne & Associates (S&A), completed remedial investigation (RI) activities, as well as interim remedial measure (IRM) activities, in accordance with an RI/IRM Work Plan⁴, which was approved by NYSDEC on April 20, 2017. The RI and IRM work was done concurrently, with additional investigation or IRM work completed, as needed. A series of IRM work tasks were performed at the Site in order to remediate the on-Site concerns as detailed in the Final Remedial Investigation-Interim Remedial Measures-Alternative Analysis Report (RIIRM/AAR)⁵ and Final Engineering Report (FER)⁶. RI/IRM work tasks completed at the Site included the following:

2 Brownfield Cleanup Agreement for the Pierce Arrow Business Center Site, executed between NYSDEC and R & M Leasing LLC and Signature Development WNY LLC, April 24, 2017.

3 Brownfield Cleanup Agreement Amendment for C915312, executed September 21, 2017. The amendment removed Signature Development WNY LLC, from the application, making R & M Leasing LLC the sole applicant.

4 Remedial Investigation-Interim Remedial Measures-Alternative Analysis Work Plan; 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, November 11, 2016 – Revised May 22, 2017.

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.

Courtyard Area:

- Asbestos containing materials (ACMs) were identified within the courtyard area which resulted in the need to remove the top two inches of soil. A composite characterization sample was collected for landfill disposal. Test results identified polychlorinated biphenyls (PCBs) at a concentration of 53 parts per million (ppm), which prompted further IRM work within the courtyard area.
- ACMs soils, which were handled by AMD Environmental, the Owner's representative, were excavated and disposed off-Site as PCBs-containing soil. The soils were disposed at a Waste Management facility in Emelle, Alabama.
- After the courtyard was deemed as ACMs free, additional soil excavations were completed under the guidance of HEI. Soil containing over 50 ppm of PCBs was excavated from the courtyard area and disposed off-Site.
- Additional material removal was completed from the courtyard area, which included the following:
 - Brick was generated from pavers that were present within the courtyard. Concrete was generated from former pad areas, as well as from foundations within the courtyard area. The brick and concrete materials were disposed off-Site at a Waste Management facility in Chaffee, New York.
 - Further soil excavations were completed, generally to depths of 2 to 3 feet below original grade, into the native underlying clay soils. Soils that contained PCBs below 50 ppm, but over the Restricted Residential Use Soil Cleanup Objective (RRUSCO) standard of 1 ppm, were excavated and disposed at a Waste Management facility in Chaffee, New York.
- One 2,000-gallon gasoline underground storage tank (UST) was located within the courtyard area. The tank was uncovered and approximately 150 gallons of a gasoline/water mixture were pumped from the tank. Upon removal, the steel tank was cleaned and crushed for recycling at the Niagara Metals LLC scrap yard. A limited amount of impacted soil was present on the bottom and northern sidewall. The impacted soil was excavated and disposed off-Site at a Waste Management facility in Chaffee, New York.
- Three drainage structures or "pits" were also identified within the courtyard area. Each drainage structure was excavated, and any associated impacted soil was removed and disposed off-Site at a Waste Management facility in Chaffee, New York.
- Historical records identified the potential for a 10,000-gallon above ground storage tank (AST) vault to be present near the former boiler room. During the removal of a concrete pad, the vault area was discovered under the concrete pad. Once the concrete was removed, the vault was found to be filled with brick and sand.
 - A sample of the sand material was analyzed for PCBs, which indicated a PCBs-concentration over 50 ppm. The sand and brick materials were subsequently removed from the vault and the materials were disposed off-Site at a Waste Management facility in Emelle, Alabama.

- A concrete footer was located within the vault, measuring approximately 18-inches wide and extending over four feet. The vault had a concrete floor/base that was approximately six inches thick. Due to the vault's proximity to the chimney, the vault footer was required to remain in place, as removal would risk compromising the structural stability of the chimney foundation.
- Sidewall and bottom samples were collected from the UST excavation area, former vault area, and the drainage structure or "pit" areas. Additionally, confirmatory soil samples were selected from the bottom of the excavation which occurred in the courtyard area. Soil sample results did not identify impacts above the RRUSCO.

Parking Lot Area:

- Due to the presence of metals and semi-volatile organic compounds (SVOCs) within the fill material, the three to four feet of fill material within the parking lot area was scheduled for removal during the IRM work. Initial waste characterization samples identified portions of the parking lot at concentrations deemed as hazardous due to characteristic of lead toxicity. Additional delineation work was completed to evaluate areas with lead impacts.
- The lead soils were stabilized on-Site using the MAECTITE® stabilization process, a proprietary process completed by Severson Environmental. The stabilization process bound the lead, preventing further leaching. As such, the soil was able to be disposed of as non-hazardous soil.
- The parking lot area was then excavated to a depth of three to four feet below grade to the underlying native clay soils. Approximately 2,200 tons of soil were excavated and disposed off-Site at a Waste Management facility in Chaffee, New York.
- Confirmatory soil samples were collected from the sidewall and bottom of the excavation within the parking lot area. Analytical test results did not identify compounds above RRUSCO.

Under Building Area:

- The Site was on a fast track for Site development. As such, HEI worked with the Site Owner to investigate and evaluate specific areas under the building proposed for future water and/or sewer lines. Additionally, sub-slab soil samples were collected and if impacts were identified, the soil was excavated. Concrete samples were also collected to determine if PCBs were present.
- During RI work, specific areas of impact were identified. For each area, the soil surrounding the area was excavated and sidewall and bottom samples were collected, which did not exhibit further exceedances. Soil from under the building was excavated and disposed off-Site at a Waste Management facility in Chaffee, New York.
- PCBs were identified within the concrete floor at various locations, specifically in the southwestern corner of the structure. The concrete was subsequently removed and disposed of off-Site at a Waste Management facility in Chaffee,

New York. Confirmatory samples were collected from the adjoining concrete floor, which did not identify any PCBs concentrations above RRUSCO.

Soil Vapor Intrusion Assessment:

An initial soil vapor intrusion (SVI) Assessment was completed in September 2017 as part of the RI. Vapor intrusion air samples were analyzed from five (5) sub-slab (SS) locations and six (6) ambient indoor air (IA) locations throughout the building, as well as one (1) ambient outdoor air (OA) location. Trichloroethene (TCE) was detected in three of the sub-slab samples at concentrations ranging from 2.2 micrograms per cubic meter (ug/m³) at SS-2 to 3,500 ug/m³ at SS-4. TCE was also detected in four of the indoor samples at concentrations ranging from 0.27 ug/m³ at IA-3 to 1.7 ug/m³ at IA-4. The decision matrices from the updated New York State Department of Health (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/m³ and 3500 ug/m³ in the sub-slab samples from SS-3 and SS-4, respectively, Decision Matrix A indicated these locations/areas would require mitigation. 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 the SS-3/IA-3 and SS-4/IA-4 sample locations, as shown in Figure 3, provided in Appendix A.

A Certificate of Completion (COC) was issued for the Site on December 27, 2017⁷.

1.3 Institutional and Engineering Controls

Since remaining contamination exists at the Site, Institutional Controls (ICs) and Engineering Controls (ECs) as outlined in the Site Management Plan (SMP)⁸ were required to protect human health and the environment, and include the following:

Institutional Controls:

- The property may be used for restricted residential, commercial, and/or industrial uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Environmental and/or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP;

⁷ New York State Department of Environmental Conservation, “Certificate of Completion for the Pierce Arrow Business Center”, dated December 27, 2017

⁸ “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.

- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 2, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited.

Engineering Controls:

- In 2017, four (4) Sub-Slab Depressurization (SSD) systems were installed in the southwestern portion of the Site, in proximity to SS-3/IA-3 and SS-4/IA-4 sample locations. The system objectives and performance goals include the following elements:
 - Reduce and maintain indoor air concentrations to levels below the NYSDOH Soil Vapor Guidance Document Matrix A;
 - Maintain a minimum of 0.25 inches of water column (W.C.) in the four SSD systems, measured in the exhaust piping manometer located 5-feet above the finished floor, to limit vapors from entering the building's indoor air while also releasing the trapped vapor beneath the slab; and,
 - Demonstrate system effectiveness while maintaining continuous operation of the SSDS, with no significant non-operating time.

The SSD systems were installed in November 2017, with a system start date of November 8, 2017. SSD system locations for the initial four systems within the southwestern portion of the building are identified in Figure 3. The four (4) mitigation fans are individually monitored with a dedicated (air-flow) alarm system, which is mounted to the system pipe to alert users of a low or no flow condition. Each fan also includes an interior mounted manometer installed at eye level to provide a visual indication to the tenants/property manager that the system is operating. In the event that a fan loses power or vacuum an audible alarm with a blinking LED light will notify the tenant/property manager of the no air flow condition.

- In late 2023, a fifth SSD system comprised of three (3) permanent vapor extraction points, six (6) permanent monitoring points, and a 3.5 hp blower was installed throughout the northcentral portion of the Site, in proximity to the SS-10/IA-10, SS-11/IA-11, and SS-12/IA-12 sample locations. The system is monitored at the blower and each extraction point with dedicated vacuum gauges, as well as at monitoring points (MPs) in the vicinity of each extraction

point. The system objectives and performance goals include the following elements:

- Reduce and maintain indoor air concentrations to levels below the NYSDOH Soil Vapor Guidance Document Matrix A;
- Mitigate potential vapor migration into the affected areas by maintaining a negative pressure of at least 0.002 inches of water column (W.C.) in the sub-slab, measured at specific monitoring points (MPs);
- Demonstrate an applied zone of influence in the area of each vapor extraction point; and
- Demonstrate system effectiveness while maintaining continuous operation of the SSDS, with no significant non-operating time.

The SSD system was installed in October 2023, with an interim system start date of January 8, 2024. Additional system modifications were completed from May – June 2024, with a system activation date of June 11, 2024. Additional details on system installation and start up is described in the Sub-Slab Depressurization System Final Design Report and Operation & Maintenance Plan provided by Matrix Environmental Technologies, Inc. (METI), and included as Attachment 1. The SSD system location within the northcentral portion of the building is illustrated in Figure 4, provided in Appendix A.

The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued operation is technically impracticable or not feasible.

1.4 Monitoring and Sampling Requirements

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

- Site-wide inspection performed a minimum of once per year, as noted in SMP.
- Evaluate the potential for soil vapor intrusion for any buildings developed on the Site, including provisions for mitigation of any impacts identified.
- Monitoring of the four (4) original SSD systems (SSDS-1, SSDS-2, SSDS-3, and SSDS-4) including the following:
 - Annual visual inspection of the complete system conducted during each monitoring event. SSD system components are to be monitored including, but not limited to, fans and general system piping.
 - Annual indoor air sampling at the IA-6 location.
- Previously, annual indoor air sampling to assess the effectiveness of the four (4) original SSD systems was performed at six (6) indoor locations. In December 2023, annual indoor air sampling at five of six indoor air sampling locations (IA-1, IA-2, IA-3, IA-4, and IA-5) was discontinued. The SSD system locations and previous indoor air sampling locations are shown in Figure 3.
- Previously, annual sampling and analysis of groundwater at one monitoring well (MW-3) for volatile organic compounds (VOCs), using United States Environmental Protection Agency (USEPA) Method 8260 target compound list

(TCL) was required. MW-3 was decommissioned as per CP-43 (Commissioner's Policy 43): Groundwater Monitoring Well Decommissioning Policy on October 13, 2022.

Monitoring and sampling for the newly installed SSD system (SSDS-5) are detailed in the Sub-Slab Depressurization System Final Design Report and Operation & Maintenance Plan provided by METI (Attachment 1) which includes the following:

- Initial Operation & Maintenance (O&M) checks completed on a weekly basis for the first month of system operation, monthly for the following two months, and on a quarterly basis thereafter.
 - Routine monitoring will include the identification and repair of any leaks, operational status checks of the blower, documentation of manifold settings and vacuum at each vapor extraction point, and documentation of vacuum at each monitoring point.
- Pre-carbon and post-carbon air sample collected on a monthly basis for the initial three months of system operation and on a quarterly basis thereafter for the first year of system operation at a minimum.
- Confirmation indoor air sampling in the ODL basement storage area (SS-10, SS-12/IA-12) and Cider Event Area (IA-10, SS-11/IA-11) during the heating season.
- Non-routine monitoring, including carbon changeouts, will be completed as necessary.

After one year of system operation monitoring and sampling frequency will be reassessed. The Site Management Plan will be updated at this time to include permanent monitoring and sampling requirements for the additional SSD system. At a minimum the Monitoring Plan will include the following:

- Site-wide inspection will be performed a minimum of once per year.
- Monitoring of SSDS-5 including the following:
 - Annual visual inspection of the complete system will be conducted during each monitoring event. SSD system components are to be monitored including, but not limited to, fans and general system piping.
 - Annual indoor air sampling at the IA-10/IA-11 and IA-12 locations for a minimum of three years.
 - Annual pre and post carbon air sampling to assess carbon life.

In addition, a second round of indoor air sampling will be completed during the annual air sampling event during the 2024-2025 heating season at the IA-7, IA-8, IA-9, and IA- 13 locations.

2.0 SITE INSPECTION AND MONITORING RESULTS

2.1 Annual Site Inspection

On January 9, 2024, Environmental Advantage, Inc., (EA) completed a Site-wide inspection and collected annual SMP compliance indoor air samples at location IA-6, as well as post SSDS installation confirmation indoor air samples at IA-7, IA-8, IA-9, IA-10/IA-11, and IA-12 to assess the effectiveness of the newly installed SSD system (SSDS-5). Copies of the Site-wide inspection report with photographs, building inventory, and field notes are included in Appendix B. At the time of the inspection, normal business operations were occurring at ODL, meanwhile, the rest of the facilities on site were not operating. The following was noted during the SSD system inspection:

- The five SSD systems appeared to be functioning properly at the time of the inspection, as positive pressure differential readings were recorded as follows:
 - SSDS-1 operated at one-inch of water;
 - SSDS-2 operated at one-inch of water;
 - SSDS-3 operated at one and a half-inch of water; and
 - SSDS-4 operated at one-inch of water.
 - SSDS-5 operated at 35 inches W.C. at the header and 31 inches W.C. at EX-1, 31 inches W.C. at EX-2R, and 30 inches W.C. at EX-3 the previous day as recorded by METI.
 - MP-1, MP-1R, MP-5, and MP-6 failed to meet the minimum vacuum requirement of -0.002 inches W.C. the previous day as recorded by METI, indicating that full mitigation potential was not occurring in the ODL basement area at the time of the inspection.
- EA collected air sample canisters at six indoor locations and one outdoor location and submitted the air canisters to Alpha Analytical for VOCs analysis via USEPA method TO-15. Air testing results are described in Section 2.2.
- During the annual Site-wide inspection, no cracks or deterioration was noted in the concrete floor slabs in the vicinities of the various SSD Systems. All of the floor spans in these areas were installed during site development and consisted of new concrete sealed with epoxy coating.
- No evidence of leaks in the fans or system piping was observed.

2.2 Indoor Air Sampling Results

On October 31, 2023, EA submitted a Vapor Monitoring Modification Request⁹ to the Department, requesting to discontinue annual indoor vapor monitoring at the IA-1, IA-2, IA-3, IA-4, and IA-5 locations, due to the following trend:

“Annual air compliance monitoring at the IA-1, IA-2, and IA-3 locations have exhibited results below applicable NYSDOH guidance for all five

⁹ Vapor Monitoring Modification Request; DEC Site #915312”, prepared by Environmental Advantage, Inc., Dated October 31, 2023

consecutive annual monitoring events (2018 – 2022). Annual air compliance monitoring at the IA-4 location has exhibited results below applicable NYSDOH guidance for four consecutive annual monitoring events, with only the initial monitoring event in 2018 exhibiting results in exceedance of the maximum allowable indoor air concentrations for “No Further Action” from the Soil Vapor/Indoor Air Matrix A of the NYSDOH guidance¹⁰. Annual air compliance monitoring at the IA-5 location has exhibited results below applicable NYSDOH guidance for four consecutive annual monitoring events, with only the initial monitoring event in 2018 exhibiting results in exceedance of the NYSDOH AVG and maximum allowable indoor air concentrations for “No Further Action” from the Soil Vapor/Indoor Air Matrix A of the NYSDOH guidance.”

The requirements of Section 4.0 of the SMP and Table 4.3-2 had been satisfied for locations IA-1, IA-2, IA-3, IA-4, and IA-5. Furthermore, Section 4.4 Operation Maintenance and Monitoring of Mitigation Systems of the NYSDOH SVI Guidance document, sub-section 4.4.1 states “generally, air monitoring is not recommended if the system has been installed properly and is maintaining a vacuum beneath the entire slab.” Based on this information, the Department approved the discontinuation of annual indoor air sampling at the IA-1, IA-2, IA-3, IA-4, and IA-5 locations on December 7, 2023¹¹. Air sample locations IA-1, IA-2, IA-3, IA-4, and IA-5 are shown on Figure 3, with historical indoor air analytical results summarized on Table 1 located in Appendix C.

During the January 9, 2024 Annual SMP compliance air sampling event, EA collected six indoor and one outdoor air samples at locations IA-6, IA-7, IA-8, IA-9, IA-10/IA-11, IA-12, and OA-2, as directed by the Figure 7 of the Sub-Slab Depressurization System Design Work Plan,¹² which was submitted to the Department in March 2023 and approved on April 11, 2023¹³, to assess if the SSD systems were operating properly as designed¹⁴. Air samples were collected over an 8-hour period and were submitted for VOCs analysis via USEPA method TO-15 and compared to Table 3.1 - Air Guideline Values Derived by the NYSDOH and the Soil Vapor/Indoor Air Decision Matrices as published in the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, as amended, and Table C2: “EPA 2001: Building Assessment and Survey Evaluation (BASE) Database” within Appendix C of the NYSDOH

¹⁰ Based on information provided by the NYSDOH, when performing verification sampling, the maximum allowable Indoor air concentrations for “No Further Action” on the NYSDOH Soil Vapor/Indoor Air Decision Matrices are used as a guideline since sub-slab vapor concentrations have previously been identified.

¹¹ New York State Department of Environmental Conservation, “Site Management (SM) – Sub-Slab Depressurization System Installation Work Plan, Pierce Arrow Business Center” approval letter, dated September 5, 2023.

¹² “Sub-Slab Depressurization System Design Work Plan, BCP Site #C915312, 155 Chandler Street, Buffalo, New York” prepared by Schenne & Associates Engineers & Geologists, dated January 30, 2023. Revised March 28, 2023.

¹³ New York State Department of Environmental Conservation, “Site Management (SM) – Sub-Slab Depressurization System Design Work Plan, Pierce Arrow Business Center” approval letter, dated April 11, 2023.

¹⁴ **Please Note:** There was a slight deviation from the sampling locations as depicted in Figure 7, the IA_5 location was not sampled as this location had been discontinued, and the IA-13 location was not sampled pending final system modifications. IA-13 will be sampled along with a resample of IA-10/IA-11, and IA-12 during the 2024-2025 heating season.

Guidance document. Air sample locations from the January 2024 sampling event are shown on Figure 4, with indoor air analytical results summarized on Table 2 located in Appendix C. Full laboratory analytical reports are included in Appendix D. Historical indoor air analytical results for the IA-6 location are summarized on Table 3, with a comparison of pre and post mitigation indoor air contaminant concentrations for IA-6, IA-7, IA-8, IA-9, IA-10/IA-11, IA-12 summarized on Table 4.

As presented in Table 2, twenty-one individual VOC parameters were detected within the six indoor air samples and one outdoor air sample. Most compounds were detected at concentrations below their respective NYSDOH Air Guideline Values (AGV), Matrix Values and USEPA commercial indoor and outdoor air background levels. However, the following results were noted:

- o Carbon tetrachloride was detected in all six indoor air samples collected from locations IA-6 through IA-12 at concentrations below its respective guidance values. Carbon tetrachloride was also detected in the outdoor air sample OA-2.
- o Cis-1,2-dichloroethene was detected in the IA-9 indoor air sample at a concentration below its respective guidance values. Cis-1,2-dichloroethene was not detected in the outdoor air sample OA-2.
- o Tetrachloroethene (PCE) was detected in all six indoor air samples collected from IA-6 through IA-12. PCE was detected in the outdoor air sample OA-2. Tetrachloroethene (PCE) was detected at concentrations below its respective guidance values in all six indoor air samples and in the outdoor air sample OA-2.
- o TCE was detected in all six indoor air samples collected at concentrations ranging from 0.382 ug/m³ at IA-6 to 1.56 ug/m³ at IA-12. Two of the six indoor air samples, IA-10/IA-11 and IA-12 reported TCE concentrations above the maximum allowable indoor air concentration for “No Further Action” of 1 ug/m³¹⁵. However, none of the six indoor air samples exceeded the respective NYSDOH AGV of 2 ug/m³. TCE was not detected in the outdoor air sample OA-2.
- o 1,1,1-trichloroethane, 1,1-dichloroethene, methylene chloride, and vinyl chloride were not detected in any of the indoor or outdoor sample locations.

In February 2024, NYSDOH added three new Soil Vapor/Indoor Air decision matrices for petroleum related compounds to the NYSDOH SVI Guidance document, Matrix D (benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and *o*-xylene), Matrix E (*m,p*-xylene, heptane, and hexane), and Matrix F (toluene). Although the annual air samples were collected prior to the new Soil Vapor/Indoor Air decision

¹⁵ Based on information provided by the NYSDOH, when performing verification sampling, the maximum allowable Indoor air concentrations for “No Further Action” on the NYSDOH Soil Vapor/Indoor Air Decision Matrices are used as a guideline since sub-slab vapor concentrations have previously been identified.

matrices becoming available, it is important to note that all petroleum related matrix compounds were reported at concentrations below respective guidance values at all indoor and outdoor air locations.

2.3 Pre- and Post-Carbon Sampling Results

As detailed in METI's SSDS Final Design Report and O&M Plan included as Attachment 1, SSD system installation was not finalized until June 11, 2024. From January 8, 2024 – June 11, 2024, the system was operating under an interim operating status. During this interim operational time, pre- and post-carbon samples were collected monthly to calculate carbon consumption and determine emission rates for the system. Since carbon consumption and the potential for emissions are typically the highest when a system is first started, EA determined it essential to collect these data during the system's interim period, while the final blower configuration was being determined.

EA completed monthly site checks in February, March, April, and July for the purpose of collecting carbon consumption data and emissions data. Pre- and post-carbon samples were collected with laboratory supplied Tedlar bags during each system check and influent and effluent photoionization detector (PID) readings were recorded. All samples were submitted for analysis of VOCs via USEPA Method TO-15. The results of the pre and post carbon air sampling are presented in Table 5, with emission rate calculations provided in Table 4 of METI's report (Attachment 1). Carbon treatment consists of a 55-gallon carbon treatment drum with the sole purpose of mitigating against any potential nuisance odors in accordance with 6 NYCRR Part 212. Carbon treatment is not required for emissions, as contaminant concentrations are well below any applicable emissions limits.

As shown on Table 5, a number of VOC parameters were detected within both the pre- and post-carbon air samples collected. Target chlorinated VOCs (cVOCs), the primary contaminants of concern at the 155 Chandler Site exhibited a 100%, 99%, and 97% decrease post carbon treatment in February, March and April 2024, respectively. Target cVOCs exhibited a 34% increase in July. Petroleum contaminants included on the updated NYSDOH Soil Vapor/Indoor Air matrices were reported in both the pre- and post-carbon air samples at low concentrations, with some post-carbon concentrations higher than the reported pre-carbon concentrations. Such results may be the result of low influent concentrations which can impact the removal efficiency of the carbon. A carbon changeout has been scheduled for August 2024.

Pre- and post-carbon sampling will continue through 2024 on a quarterly basis. After one year of sampling, the need for future system checks and pre and post carbon air sampling will be re-evaluated based on sampling results.

2.4 O&M Inspections

As detailed in METI's SSDS Final Design Report and O&M Plan, included as Attachment 1, SSD system installation was not finalized until June 11, 2024 when the blower was relocated to the roof top of the 155 Chandler Street building to mitigate

nuisance noise to the building tenants. After the system blower was installed in its permanent location, system start-up testing was initiated as directed by Section 5.0 of the August 2023 SSD System Installation Work Plan¹⁶, which was approved by NYSDEC on September 5, 2023¹⁷.

Weekly system checks were completed for the first month of system operation on June 18, June 25, July 2, and July 9, 2024. Copies of the weekly site inspection field notes are included in Appendix B. System checks will be completed monthly during August and September, followed by a quarterly basis thereafter. During weekly site checks, strong vacuum readings were recorded at the header as well as at each vapor extraction point. The minimum -0.002 inches W.C. was achieved at monitoring points MP-1R, MP-2, MP-3 and MP-4. After the initial startup readings collected on June 11, the minimum -0.002 inches W.C. was also achieved in MP-1, which prior to the June startup had failed to meet the minimum vacuum which resulted in MP-1R being installed. As expected, MP-5 and MP-6 did not exhibit any vacuum, as these two points were installed a considerable distance away from the vapor extraction points at locations where the newer tile flooring installed within the Cidery was not located.

2.5 Data Usability Summary

Air analytical data from the samples collected in January 2024 were submitted for independent review, as required 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 E and was prepared using guidance from the USEPA Region 2 Validation Standard Operating Procedures, USEPA National Functional Guidelines for Data Review, and professional judgement.

Indoor and outdoor air samples were collected as described above and were evaluated as described below:

Ambient Air Samples January 2024 – Alpha Lab Report L2401917:

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

- VOCs data are acceptable for use except where qualified in Initial Calibration.
- All results were recorded to the reporting limits.
- All criteria were met in the initial calibration except several target analytes (benzyl chloride, ethyl acetate, and cyclohexane) were outside QC limits in the Initial Calibration Verification and should be qualified as estimated in the associated samples, blanks and spikes. Benzyl chloride and Ethyl acetate were not detected at any of the sample locations. Cyclohexane was detected in IA-6 (010924) and the IA-6 DUPLICATE (010924) sample.

¹⁶ "SSD System Installation Work Plan, Pierce Arrow Business Center, 155 Chandler Street, Buffalo, New York 14203", prepared by Matrix Environmental Technologies, Inc., dated August 23, 2023.

¹⁷ New York State Department of Environmental Conservation, "Site Management (SM) – Sub-Slab Depressurization System Installation Work Plan, Pierce Arrow Business Center" approval letter, dated September 5, 2023.

2.6 Electronic Data Deliverables

As per NYSDEC, all aforementioned data were submitted electronically to the NYSDEC EQUIS system. Confirmation emails of successful data submittal are provided in Appendix E.

2.7 Certification Status

The completed Institutional and Engineering Controls Certification Form is included in Appendix F. **Please Note:** It is EA's opinion that the five SSD Systems are operating as designed.

3.0 CORRECTIVE ACTIONS

3.1 SSD System Design

Post-COC air sampling data and additional soil vapor intrusion assessments leading up to the installation of the fifth SSD system are detailed in the previous 2022 – 2023 PRR Report¹⁸, as well as the March 2022¹⁹ and June 2022²⁰ SVI Reports. A Sub-Slab Depressurization System Design Work Plan was submitted to the Department in March 2023 by Schenne & Associates (S&A) Engineers & Geologists and approved by the Department on April 11, 2023²¹. In August 2023 a SSD System Installation Work Plan that was in general adherence with the S&A Work Plan was submitted to the Department by METI. The updated work plan included alterations to the proposed system design in relation to the results from the May 2023 pilot testing. The August 2023 SSD System Installation Work Plan was approved by NYSDEC on September 5, 2023.

3.2 SSD System Installation – October 2023 – June 2024

As detailed in METI's SSDS Final Design Report and O&M Plan incorporated as Attachment 1, two vapor extraction points (EX-1 and EX-2) were installed in the ODL basement storage area and a third extraction point (EX-3) was installed in the Blackbird Cidery Event Area in October 2023. The location of EX-3 deviated slightly from the original Work Plan provided to the Department, as the location would have obstructed a kitchen service window in the Cidery Event Area, thus negatively impacting the use of this area. Vapor extraction points were constructed using four-inch diameter Schedule 40 PVC pipe with screen extending to just below the concrete slab. The annular space was filled with Quikcrete bagged clean gravel and sealed with bentonite or non-shrinking grout. Along with the extraction points, six (6) permanent monitoring points (MP's) were installed to monitor the induced vacuum throughout the

¹⁸ "Periodic Review Report – April 2022 - 2023; DEC Site #C915312, Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, New York", prepared by Environmental Advantage, Inc., dated June 29, 2023.

¹⁹ A Draft "Soil Vapor Intrusion Investigation Report" for Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, NY" prepared by Environmental Advantage, Inc., dated April 30, 2022 was submitted to the Department on May 13, 2022. The final "March 2022 Soil Vapor Intrusion Investigation Report" for Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, NY" prepared by Environmental Advantage, Inc., dated August 10, 2022 was submitted to the Department on August 10, 2022.

²⁰ "Supplemental Soil Vapor Intrusion Investigation Report-June 2022" for Pierce Arrow Business Center, 155-157 Chandler Street, Buffalo, NY" prepared by Environmental Advantage, Inc., dated September 21, 2022.

²¹ New York State Department of Environmental Conservation, "Site Management (SM) – Sub-Slab Depressurization System Design Work Plan, Pierce Arrow Business Center" approval letter, dated April 11, 2023.

site, MP-1 through MP-6. A hammer drill was used to install the monitoring points, to a depth that extends just below the surface of the concrete slab.

A Community Air Monitoring Program (CAMP) was completed during vapor extraction point installations and some of the MP installations. NYSDEC and NYSDOH waived the requirement for dust monitoring on the last day of MP installations as the potential for dust was limited, and the brief amount of time (less than 15 minutes per location) it takes to install each MP. Additionally, no sub-slab material is removed during MP installations. VOC monitoring was completed for all intrusive work²² using an organic vapor meter (OVM) equipped with a photoionization detector (PID) to provide real-time recordable air monitoring data. All readings were at background levels or below action levels specified in the CAMP.

In November 2023, a series of blowers and applied vacuums were tested on the extraction points to determine optimal blower size and for the system. During this time it was observed that EX-2 did not exhibit any vacuum influence and therefore EX-2 was decommissioned by grouting in place with non-shrinking grout, with the surface restored with concrete. A new vapor extraction point, EX-2R was then installed approximately 5-feet from the previous location of EX-2. MP-1R was also installed approximately 3-feet from MP-1 due to no observed vacuum influence. Due to the limited amount of time it takes to install a vapor extraction point and monitoring point, as well as the location of the work area in the closed off ODL basement area, NYSDEC and NYSDOH waived the dust monitoring requirement and only VOC monitoring was completed during installation work. After acceptable vacuum readings were observed in EX-2R and MP-1R, a blower was able to be appropriately sized. SSD system layout for the additional fifth system within the northcentral portion of the building are identified in Figure 5.

Prior to blower installation, electrical service to the blower was installed by a licensed electrician and any visible cracks in the sub-slab were sealed.

On January 8, 2024, the system was first activated with the installation of the blower and carbon vessel in a maintenance closet on the ground level of the building. Immediately upon starting up the system, it became apparent that the blower exceeded acceptable noise levels inside this multi-tenant commercial building. As a result, it was decided that relocation of the blower to the rooftop was a necessity. Due to uncertainty surrounding future modifications to the system, vacuum readings from the monitoring points were not collected per Section 5.0 Maintenance and Monitoring of the SSD System Installation Work Plan by METI. Nevertheless, the system remained running with the blower in the maintenance closet in order to mitigate vapor intrusion while an appropriate solution could be identified. Since the system was running, pre- and post-carbon were sampled every month from February until April to calculate carbon consumption shown in Table 5 and discussed in Section 2.3 above.

²² Please Note: During the initial installations one of the PID's utilized for VOC monitoring (nearest receptor) failed to log VOC data. EA staff monitored equipment readings during installations and no alarms were triggered. NYSDEC was notified that the data was not correctly logged.

In May 2024, the blower was relocated from the ground level storage closet to the rooftop due to the noise nuisance and potential overheating concerns during the summer months. The blower was placed inside a ventilated, weather-proof, and soundproof enclosure and anchored to the rooftop. The system process piping was extended through the roof from the extraction points and electrical service was extended to the roof by a licensed electrician. The system header and carbon treatment unit remained in the ground level maintenance closet for ease of future access. Prior to blower relocation to the rooftop, abandoned pipe holes/penetrations and cracks were sealed off in the ODL basement storage room to the Cidery Event Area and mezzanine, as well as other areas along the stair wells in the mezzanine in order to prevent intermixing air. EA postulated that the TCE levels exhibited from the IA-10/IA-11 location in January 2024 were a result from vapors intruding into this area from the ODL basement storage area. Mitigation System Installation Record forms are provided in Appendix G, along with a request to import form for the Quikcrete gravel.

3.3 Disposal

Approximately one 5-gallon bucket of soil cuttings were generated from the installation of the extraction points in October and November 2023. The waste generated was characterized and analyzed for Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP Resource Conservation and Recovery Act (RCRA) Metals, and PCBs as per the selected disposal facility's requirements. The waste was determined to be acceptable for disposal at American Recyclers Company in Tonawanda, New York, and was transported for ultimate disposition on July 10, 2024. All CAMP data and waste characterization documentation from the SSD system installation is provided in Appendix H.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In general, all components of the Site Management Plan have been met during the current monitoring and reporting period. Annual air compliance monitoring at the IA-1, IA-2, and IA-3 locations had previously exhibited results below applicable NYSDOH guidance for all five consecutive annual monitoring events from 2018 to 2022. Annual air compliance monitoring at the IA-4 location had exhibited results below applicable NYSDOH guidance for four consecutive annual monitoring events, with only the initial monitoring event in 2018 exhibiting results in exceedance of the maximum allowable indoor air concentrations for "No Further Action" from the Soil Vapor/Indoor Air Matrix A of the NYSDOH guidance. Annual air compliance monitoring at the IA-5 location had exhibited results below applicable NYSDOH guidance for four consecutive annual monitoring events, with only the initial monitoring event in 2018 and one follow up monitoring event in 2019 exhibiting results in exceedance of the NYSDOH AVG and maximum allowable indoor air concentrations for "No Further Action" from the Soil Vapor/Indoor Air Matrix A of the NYSDOH guidance. To this regard, sampling at the IA-1, IA-2, IA-3, IA-4, and IA-5 locations were discontinued in December 2023. Annual air sampling will remain at the IA-6 location until the requirements of Section 4.0 of the SMP and Table 4.3-2 had been satisfied, or upon

Department approval with consideration to Section 4.4 Operation Maintenance and Monitoring of Mitigation Systems of the NYSDOH SVI Guidance document.

During the current monitoring and reporting period, an additional SSD system was installed in the northcentral portion of the building to mitigate vapor intrusion into this area. To this regard, IA-10/IA-11 and IA-12 will be sampled on an annual basis for a minimum of three years as originally specified in Section 4.0 of the SMP and Table 4.3-2 for the original indoor air monitoring locations. IA-7, IA-8, IA-9, and IA-13 will be sampled during the 2024-2025 heating season, with future sampling frequency to be determined with consideration to Section 4.4 Operation Maintenance and Monitoring of Mitigation Systems of the NYSDOH SVI Guidance document. No other changes to the SMP are recommended at this time.

As illustrated on Table 4, indoor air concentrations in the ODL Basement Storage Area and Blackbird Cidery are significantly reduced during SSDS operation, with all contaminants below the NYSDOH AGV's. Furthermore, sample location IA-6, IA-7, IA-8, and IA-9, meet the objectives and performance goals for the system during the January 2024 sampling event.

The IA-10/IA-11 sample location and the IA-12 sample location did not meet the system objectives and performance goals of reducing and maintaining indoor air concentrations to levels below the NYSDOH Soil Vapor Guidance Document Matrix A, specifically for TCE, during the January 2024 indoor air sample collection, however EA expects that now that the system has been running that these levels would be within the levels listed in the performance goals for the system. When the system was started on January 8, 2024, it was noted that no vacuum influence was observed at MP-1 and minimal vacuum was noted at MP-1R (-0.001 inches W.C.). As noted in METI's report, when EX-2 was installed in the ODL basement, it was noted that the current concrete floor appeared to be poured over an original floor, which was poured directly over native clay soils and that no granular sub-base was encountered. These observed conditions are likely a contributing factor as to why minimal vacuum influence was observed at MP-1 and MP-1R in January 2024 when the system was started under interim status. EA suspects that continued system operation during its interim status may have helped create desiccation cracks, thereby allowing sub-slab vapors to flow more freely. Evidence of these conditions was observed after the initial startup on June 11, when the minimum -0.002 inches W.C. was observed at MP-1 and MP-1R. Additionally, prior to blower relocation to the rooftop, abandoned pipe holes/penetrations and cracks were sealed off in the ODL basement storage room to the Cidery Event Area and mezzanine, as well as other areas along the stair wells in the mezzanine to prevent intermixing air. EA suggests that during the January 2024 sampling event, considerable intermixing of air between the ODL basement storage area and Cidery Event Area took place.

Target chlorinated VOCs (cVOCs), the primary contaminants of concern at the 155 Chandler Site exhibited a 100%, 99%, and 97% decrease post carbon treatment in February, March, and April 2024, respectively. However, in July, the primary COCs exhibited a 34% increase after carbon treatment. Petroleum contaminants included

on the updated NYSDOH Soil Vapor/Indoor Air matrices were reported in both the pre and post carbon air samples at low concentrations, with some post carbon concentrations higher than the reported pre carbon concentrations. A carbon changeout has been scheduled for August 2024.

No maintenance needs were identified during the annual Site-wide inspection. Additionally, no change in use, groundwater use, or excavations were performed on-site, as reported to EA by Site management. The only intrusive activities completed at the Site during the certifying period were drilling 6-inch and 1-inch holes into the building slab to support SSDS installation. The annual Site-wide SSD system inspection will be completed by December 2024.

The four (4) original SSD systems continue to function properly as designed to mitigate soil vapor intrusion in the south-west corner of the building where the SSD systems are located. These SSD systems will be tested if during each system's lifetime significant changes are made to a system and the system must be restarted. The SSD systems will be inspected and maintained at least annually. Additional inspections and/or sampling may occur when a suspected failure of the SSD system has been reported or an emergency occurs. The Operation & Maintenance Plan (O&M Plan) describes the measures necessary to operate, monitor and maintain the existing SSD systems and includes procedures for routine operation, shutdown, general maintenance and monitoring requirements, and record keeping. The O&M Plan is fully in place, with no deficiencies in compliance.

Following the relocation of the blower to its permanent location, start-up testing as per Section 4.0 Post-Installation Testing and Section 5.0 Maintenance and Monitoring of the August 23, 2023 Sub-Slab Depressurization System Installation Work Plan was initiated. Carbon consumption and system emission rates have been calculated based off the results from the February through April pre and post carbon air sampling. Furthermore, quarterly pre- and post-carbon sampling will continue, at minimum, quarterly for the first year of system operation. OM&M system checks have been conducted weekly for the first month of system operation. Continued system checks will occur monthly for the next two months and then quarterly moving forward for the first year of system operation. System checks will include the repairing of leaks present, operational status checks of the blower, and documentation of vapor extraction point and monitoring point readings. Additionally, carbon changeouts will be completed as necessary. The requirements for Site closure have not yet been met, and no changes to the frequency of PRR submittals are recommended at this time.

ATTACHMENT 1

**SUB-SLAB DEPRESSURIZATION SYSTEM FINAL DESIGN REPORT AND
OPERATION & MAINTENANCE PLAN**

SUB-SLAB DEPRESSURIZATION SYSTEM FINAL DESIGN REPORT AND OPERATION & MAINTENANCE PLAN

Pierce Arrow Business Center
155 Chandler Street
Buffalo, New York 14203
NYSDEC Site #C915312

November 1, 2024

Prepared For:

R&M Leasing LLC

Prepared By:



CERTIFICATION STATEMENT

I, Christine M. Curtis, P.E., certify that I am currently a NYS Professional Engineer as defined in 6 NYCRR Part 375 and that this Sub-Slab Depressurization System Final Design Report and Operation & Maintenance Plan for the Pierce Arrow Business Center located at 155-157 Chandler Street, Buffalo, New York was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York.

I hereby certify the following drawings:

- Figure 3: SSD System Layout and Piping Diagram
- Figure 4: Vapor Extraction Point and Monitoring Point Detail
- Figure 5: Process and Instrumentation Diagram
- Figure 6: SSD System Layout – Profile View
- Figure 7: Indoor Air Monitoring Locations


Christine M. Curtis, P.E. #100560
Matrix Environmental Engineers, PLLC

11/1/2024
Date

SEAL



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ATTACHMENTS

Figure 1: Site Location Map

Figure 2: Soil Vapor Intrusion Pilot Testing Locations

Figure 3: SSD System Layout and Piping Diagram

Figure 4: Vapor Extraction Point and Monitoring Point Detail

Figure 5: Process and Instrumentation Diagram

Figure 6: SSD System Layout – Profile View

Figure 7: Indoor Air Monitoring Locations – January 9, 2024

Table 1: Vacuum Testing Data (Post-Installation Phase I) – November 14, 2023

Table 2: Vacuum Testing Data (Post-Installation Phase I) – November 30, 2023

Table 3: System Operational Data and VOC Recovery

Table 4: Pre- and Post-Carbon Analytical Data Summary and Emissions Rate Calculations

Table 5: Indoor Air Monitoring Analytical Results

Appendix A: Pilot Testing Data Summary (May 2023)

Appendix B: Equipment Specification Sheets

Appendix C: Laboratory Analytical Reports

Appendix D: Field Data Sheets

Appendix E: Waste Disposal Documentation

Appendix F: Operation & Maintenance (O&M) Plan

1.0 INTRODUCTION

This document presents a final design and details on the installation and activation of a sub-slab depressurization (SSD) system at the Pierce Arrow Business Center (PABC) property located at 155 Chandler Street, Buffalo, New York (“Site”). Final system design and installation were completed in general adherence with the approved *Sub-Slab Depressurization System Installation Work Plan* (Matrix Environmental Technologies Inc., revised August 23, 2023) with some modifications as detailed in the sections below.

2.0 PROJECT BACKGROUND

NYSDEC Brownfield Cleanup Program (BCP) Site #C915312 consists of two contiguous parcels (155-157 Chandler Street) in the City of Buffalo. The site is bound to the north by Chandler Street, to the west by Manton Place, to the south by Grote Street, and to the east by residential properties. The property is located within a mixed industrial, commercial, and residential area. A Site Location Map is included as **Figure 1**.

The 155 Chandler parcel consists of a 65,000 square foot building surrounding a large (22,000 square foot) brick and gravel courtyard. Historically, the Site had been used for machining, gas manufacturing, and manufacturing since the early 1900s. The Site was purchased by R& M Leasing, LLC in 2017. Remedial activities completed under the BCP included the excavation and off-site disposal of soil contaminated with semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals.

To assess the potential for soil vapor intrusion (SVI) at the Site, sub-slab vapor and indoor air samples were collected during an initial assessment completed in September 2017. Based on the results of the investigation, four SSD systems were installed in the southwestern portion of the Site. The systems were installed in 2017 but were not immediately activated as the building was unoccupied during Site development. A Certificate of Completion was issued for the property in December 2017.

The four SSD systems in the southwestern portion of the Site were activated during Fall 2018. Four annual indoor air monitoring events as well as two additional events at the IA-5 location and four additional events at the IA-6 location were completed from December 2018 through December 2021.

3.0 SUMMARY OF PRE-DESIGN ACTIVITIES

Based on the results of the December 2021 monitoring event, soil vapor intrusion assessments were completed in March, June, and July 2022 in the area of the building currently occupied by Blackbird Cider Works and ODL Orthodontic Lab, located on the building’s ground level, as well as a basement storage room. Results of the SVI assessments indicated that mitigation is required in these areas.

METI completed pilot testing on May 16, 2023 in order to determine the radius of influence (ROI) and number of vapor extraction points required in the target treatment area. Pilot test data is

summarized in **Appendix A** and locations of pilot test vapor monitoring points and vapor extraction points are shown in **Figure 2**.

Pilot test vapor extraction point VP-1 was installed in the basement area at the location of sub-slab sample SS-12. Baseline photoionization detector (PID) readings were 13.4 ppm in MP-1, 13.8 ppm in MP-2, and 25.6 ppm in MP-3. During testing, zero vacuum influence was noted in vapor monitoring points MP-2 (4 feet to the west) and MP-3A (8 feet to the west); however, vacuum influence was noted in vapor monitoring points installed within approximately 6 inches of these points (MP-2A and MP-3 respectively). The results of the test indicate a radius of influence of 8 to 10 feet in the basement area at applied vacuums ranging from 12 to 45 inches W.C.

Pilot test vapor extraction point VP-2 was installed in the Cidery event area. Observations during installation of VP-2 indicate that the sub-slab material was slag and that the slab consisted of three distinct concrete layers, each approximately 4 inches thick. Vacuum influence above the target 0.002 inches W.C. was observed in monitoring points up to 22 feet away from VP-2 at applied vacuums ranging from 5 to 20 inches W.C. At 20 inches W.C., vacuum influence was observed 31 feet away (MP-17). To avoid damaging the finished floor, no additional points were installed in the adjacent cidery additional seating area. The results of the test indicate a ROI of approximately 30 to 40 feet at applied vacuums ranging from 5 to 20 inches W.C. Vapor monitoring point MP-16 was installed to confirm that vacuum influence could be achieved across potential subsurface obstructions (concrete footer, floor drain) in the event area; data from MP-16 was not used to calculate the ROI.

4.0 SSD SYSTEM PRELIMINARY DESIGN

The design objective of the SSD system is to mitigate potential vapor migration into the affected areas by maintaining a negative pressure of at least 0.002 inches of water column (WC) in the sub-slab, resulting in decreased VOC concentrations in indoor air throughout the area of the building occupied by the Cidery and ODL. The design was developed in accordance with the applicable standards, criteria, and guidance contained in or referenced in NYSDOH's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and its updates. Concentrations of contaminants subject to the Soil Vapor/Indoor Air decision matrices included in the guidance will be reduced to the following levels in indoor air:

- **Matrix A** – Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), and Carbon Tetrachloride: 1 µg/m³
- **Matrix B** – Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), and Methylene Chloride: 10 µg/m³
- **Matrix C** – Vinyl Chloride: 0.2 µg/m³
- **Matrix D** - Benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene: 10 µg/m³
- **Matrix E** - m,p-xylene, heptane, and hexane: 20 µg/m³
- **Matrix F** – toluene: 50 µg/m³

Based on initial pilot testing data, it was proposed that design and installation of the SSD system be completed in a phased approach. The preliminary design included the following:

- Installation of two permanent extraction points (EX-1 and EX-2) and three (3) permanent vapor monitoring points (MPs) in the basement storage area (location of SS-10 and SS-12/IA-12);
- Installation of one permanent extraction point (EX-3) and one (1) permanent vapor monitoring point in the Cidery event area on the ground level (location of IA-10 and SS-11/IA-11 and approximately 20 feet from SS-8/IA-8 on the ground level);
- Installation of permanent vapor monitoring points in the Cidery storage room (location of SS-7/IA-7) and Cidery bar area; and
- Installation of piping from each permanent extraction point to a manifold.

The radius of influence of the extraction points was estimated to be 8 feet in the basement storage area and approximately 30 feet on the ground level with some variation depending on proximity to subsurface obstructions, including drainage features. Following installation of the extraction points and vapor monitoring points, it was proposed that the system be operated with the blower used for the pilot test and operating data (air flow rate, vacuum etc.) be collected to verify the blower size for continuous operation. This step was proposed due to the difference in ROI observed between the basement and ground level during the pilot test as well as the need for air treatment to control nuisance odors. The second phase of system design and installation was also to include evaluation of the need for an additional extraction point (EX-4) in the office space near the cidery additional seating area and bar area on the ground level.

5.0 SSD SYSTEM INSTALLATION: PHASE I

Installation of the three extraction points, six vapor monitoring points, and associated system piping was completed by METI on October 23-25, 2023 and November 9, 2023.

5.1 Extraction Point Installation

Vapor extraction points EX-1, EX-2, and EX-3 were installed as proposed in the approved Work Plan. However, the location of EX-3 was adjusted approximately 3 feet to the north of the original proposed location so as not to obstruct a kitchen service window in the cidery event area.

Each vapor extraction point was constructed using four-inch diameter Schedule 40 PVC pipe with screen extending to just below the concrete slab. The annular space was filled with clean gravel and sealed with bentonite or non-shrinking grout. Extraction point locations are shown in the SSD system layout included as **Figure 3** and a construction detail is included as **Figure 4**. The vapor extraction points are labeled on the riser pipe.

5.2 Vapor Monitoring Point Installation

A hammer drill was used to install permanent vacuum monitoring points MP-1 through MP-6 at several locations in each area. The monitoring points, which include a ¾-inch female coupling and threaded cap, were installed to a depth extending just below the surface of the concrete slab. Vapor monitoring point locations are shown in **Figure 3** and a construction detail is included as **Figure 4**.

5.3 Piping Installation

A network of vacuum pipes were installed to convey the vapor outside of the building. The riser pipes from the vapor extraction points are supported on the interior building walls with pipe supports placed near valves, elbows, fittings, and points. All piping is level or sloped toward the vapor extraction points to prevent condensate accumulation in pipe runs.

Overhead piping was routed into a wall-mounted header located inside an interior storage closet, near the exterior location of the blower enclosure as shown in **Figure 3**. Each extraction point line was equipped with a permanent magnehelic gauge to monitor vacuum and ball valve for controlling air flow. Extraction points and the direction of air flow are labeled on the piping manifold.

5.4 Waste Management

One five-gallon bucket of soil/fill material was generated during permanent extraction well installation. No slag was encountered during extraction well installation. The five-gallon bucket was profiled to American Recyclers Company in Tonawanda, New York, and was transported for disposal on July 10, 2024. A copy of the waste manifest is provided in **Appendix E**.

5.5 Air Monitoring

Air monitoring for particulates and volatile organic compounds (VOCs) was conducted during installation of the extraction wells EW-1, EW-2, and EW-3. Air monitoring for VOCs was conducted during all ground intrusive activities. All readings were at background levels or below action levels specified in the Community Air Monitoring Program (CAMP). With NYSDEC approval, monitoring for particulates did not occur during installation of the vapor monitoring points in the basement area and during the installation of extraction well EW-2R due to the short-term nature (less than 15 minutes) of the ground intrusive work.

6.0 POST-INSTALLATION PHASE I DATA COLLECTION (NOVEMBER 2023)

Vacuum data was collected from the newly installed vapor extraction points and permanent vapor monitoring points over a range of applied vacuums on November 14, 2023. The data is summarized in **Table 1**. During testing, vacuum levels significantly above the target 0.002 inches W.C. were noted in MP-2, MP-3, and MP-4 at applied vacuums ranging from 38 to 52 inches W.C. No vacuum influence was noted in MP-1 located in the basement area or in MP-5 and MP-6 located on the ground level.

During installation of EX-2, it was observed that the current concrete basement floor appears to have been poured over an original floor, which was poured directly over native clay soils in that location as no granular sub-base was encountered. It was suspected that the lack of influence in MP-1, which was inconsistent with pilot testing results and results from EX-1, was attributable to the lack of granular sub-base. Therefore, EX-2 was decommissioned by grouting in place with non-shrinking grout and the surface was restored with concrete. A replacement extraction point, designated as EX-2R, was installed approximately 5 feet to the east on November 30, 2023 by the same methods detailed in Section 5.1. A replacement vapor monitoring point, designated as MP-1R, was installed approximately 3 feet to the southwest of MP-1. In addition, a temporary vapor

monitoring point, MP-7, was installed in the cidery additional seating area. Vacuum testing was repeated over a range of applied vacuums with all extraction points operational, with EX-2R only operational, and with EX-3 only operational in order to determine if sufficient vacuum influence could be achieved in these areas.

The data, summarized in **Table 2**, suggests the following conclusions:

- EX-2R may not need to be operated as the target vacuum is achieved throughout the basement area with only EX-1 operating;
- EX-3 appears to be connected to a preferential pathway as insufficient vacuum was achieved in MP-7, which is inconsistent with pilot testing results from VP-2 and MP-17 installed in nearby locations;
- SSD system operation utilizing the existing network of vapor extraction points is sufficient to achieve the target vacuum influence in the basement area and in the cidery event area but may be insufficient to achieve the target vacuum influence in the storage area (MP-5), cidery bar area (MP-6), and cidery additional seating area (MP-7). Pending results of indoor air sampling results, additional extraction points may be required in the future;
- If indoor air sampling results indicate that additional vapor extraction points are needed, several additional vapor monitoring points and additional testing will be required to determine optimal locations for those extraction points. Locations of points will be limited by cidery operations and to avoid damage to flooring in the newly renovated bar area and additional seating area; and,
- The blower should be adequately sized to accommodate potential additional vapor extraction points in the future (i.e., 125-150 scfm at 45 inches W.C.).

Following testing, temporary vapor monitoring point MP-7 was decommissioned by grouting in place with non-shrinking grout and the surface was restored with concrete.

7.0 SSD SYSTEM DESIGN

A single 3.5 HP GAST Regenair[®] regenerative blower (R6335A-2) was selected to maintain a pressure differential of 0.002 inches WC in the sub-slab in the target treatment area. Effluent air from the blower will be treated using a 55-gallon vapor phase carbon drum to control nuisance odors in accordance with 6 NYCRR Part 212. As detailed in Section 4.0, the SSD system will utilize a network of three vapor extraction points with the potential to add 1-2 additional points in the future based on vacuum data and results of indoor air sampling events. Each vapor extraction line will be equipped with a manometer to provide individual vacuum readings from each vapor extraction point.

Technical specifications for vapor extraction and treatment equipment are included in **Appendix B**. A system process and instrumentation diagram is included in **Figure 5**.

8.0 SSD SYSTEM INSTALLATION: PHASE II

Three phase electrical service to the blower, including a disconnect and control panel, was installed by a licensed electrician. Prior to system start-up, any visible cracks in the sub-slab were sealed using

MasterSeal NP1 caulk. The blower, associated instrumentation, and carbon vessel were installed on January 8, 2024.

9.0 POST-INSTALLATION PHASE II DATA COLLECTION (JANUARY-MARCH 2024)

9.1 Initial Activation of SSD System

Following installation of the blower, the SSD system was first activated on January 8, 2024. Similar to data collected in November 2023, no vacuum influence was observed in MP-1, MP-5, and MP-6. Where detected, vacuum readings in the monitoring points ranged from 0.001 inches W.C. in MP-1R to 24 inches W.C. in MP-3. System operational and vacuum data collected upon system activation is summarized in **Table 3**.

9.2 Interim SSD System Operation and Data Collection

Shortly following system activation, it was determined that noise levels were a nuisance to tenants and that the blower would need to be relocated to the roof of the building. The system continued to operate while an appropriate blower enclosure was selected and installed; however, as the current system configuration was considered to be of a temporary nature, additional vacuum data was not collected on a routine basis during this time. Data was collected during a site check on March 5, 2024 and is included in **Table 3**.

Pre- and post-carbon air samples were collected and submitted for laboratory analysis of VOCs by EPA Method TO-15 on February 8, 2024, March 12, 2024, and April 11, 2024 to evaluate carbon consumption. Analytical results and emissions calculations are summarized in **Table 4** and laboratory analytical reports are included in **Appendix C**. Pre-carbon and post-carbon VOC concentrations were low, with PCE, TCE, and carbon tetrachloride below laboratory detection limits in all three post-carbon samples with the exception of a low-level carbon tetrachloride detection ($1.37 \mu\text{g}/\text{m}^3$) in the sample collected in April. Although NYSDEC air emissions limits were not exceeded, carbon treatment will continue through at least the first year of system operation to reduce nuisance odors.

9.3 Indoor Air Monitoring Data Collection

An indoor air monitoring event was completed on January 8-9, 2024, beginning on the day following initial activation of the SSD system. Samples were collected from the following locations over an 8-hour duration and submitted for laboratory analysis of VOCs by EPA Method TO-15:

- Ground level corridor/mail room (IA-6/IA-6 Duplicate)
- Ground level storage area (IA-7; location of MP-5)
- Ground level cidery additional seating area (IA-8; location of temporary MP-7)
- Ground level cidery bar area (IA-9; location of MP-6)
- Ground level cidery event area (IA-10/IA-11; location of MP-4)
- Basement area (IA-12; location of MP-1, MP-1R, MP-2, and MP-3)

- Outside northern building wall (OA-2)

Sampling locations are shown in **Figure 7** and analytical results are summarized in **Table 5**.

Results indicate that overall, contaminant concentrations in indoor air are significantly reduced from pre-mitigation levels and are below the target concentrations identified in Section 4.0 in the ground level corridor/mail room and storage area, cidery bar area, and cidery additional seating area. TCE concentrations in the cidery event area and basement slightly exceed the target concentration of 1 $\mu\text{g}/\text{m}^3$, with concentrations of 1.14 $\mu\text{g}/\text{m}^3$ in IA-10/IA-11 and 1.56 $\mu\text{g}/\text{m}^3$ in IA-12. It is suspected that indoor air from the basement area enters the cidery event area via historical piping conduits in the mezzanine level. It is recommended that these openings be sealed off and the indoor air sampling event be repeated during the next heating season.

10.0 SSD SYSTEM INSTALLATION: PHASE III

Three phase electrical service to blower, relocated to the top of the roof building, was installed by a licensed electrician. System process piping from the vapor extraction point manifold was extended through the roof. Immediately after the weatherproof, soundproof blower enclosure was installed and anchored to the roof, the piping penetration was sealed by a roofing contractor. The final phase of system installation was completed on May 21, 2024. A treatment system profile view is included as **Figure 5**.

11.0 SYSTEM ACTIVATION AND START-UP TESTING

The SSD system was activated on June 11, 2024. System operational data, including vacuum readings at the vapor extraction points, vapor monitoring points, and blower, were recorded at startup and during weekly site checks completed through July 9, 2024. Data is summarized in **Table 3** and copies of the field data sheets completed by EA are included as **Appendix D**.

12.0 OPERATION, MAINTENANCE, AND MONITORING

Operation, maintenance, and monitoring will be conducted to document that the SSD system is operating as designed. The Operation & Monitoring (O&M) Plan is included in **Appendix F**.

Initial OM&M system checks were completed weekly for the first month of system operation. Additional site checks will be completed monthly for the following two months and on a quarterly basis thereafter. If determined necessary, site checks may be completed more frequently in the future. After one year of system operation, the frequency of site checks will be evaluated.

Routine monitoring will include the identification and repair of any leaks, operational status checks of the blower, documentation of manifold settings and vacuum at each vapor extraction point, and documentation of vacuum at each monitoring point. Non-routine maintenance, including carbon changeouts, will be completed as necessary.

Pre-carbon and post-carbon air samples were collected on a monthly basis for the initial three months of system operation and will be completed on a quarterly basis for at least the first year of

system operation. All samples will be submitted for laboratory analysis of VOCs via EPA Method TO-15. Pre-carbon and post-carbon photoionization detector (PID) readings will also be collected during regular system checks.

Confirmation indoor air sampling in the basement and cidery additional seating area will be completed during heating season and results will be detailed in a separate report.

13.0 CONCLUSIONS AND RECOMMENDATIONS

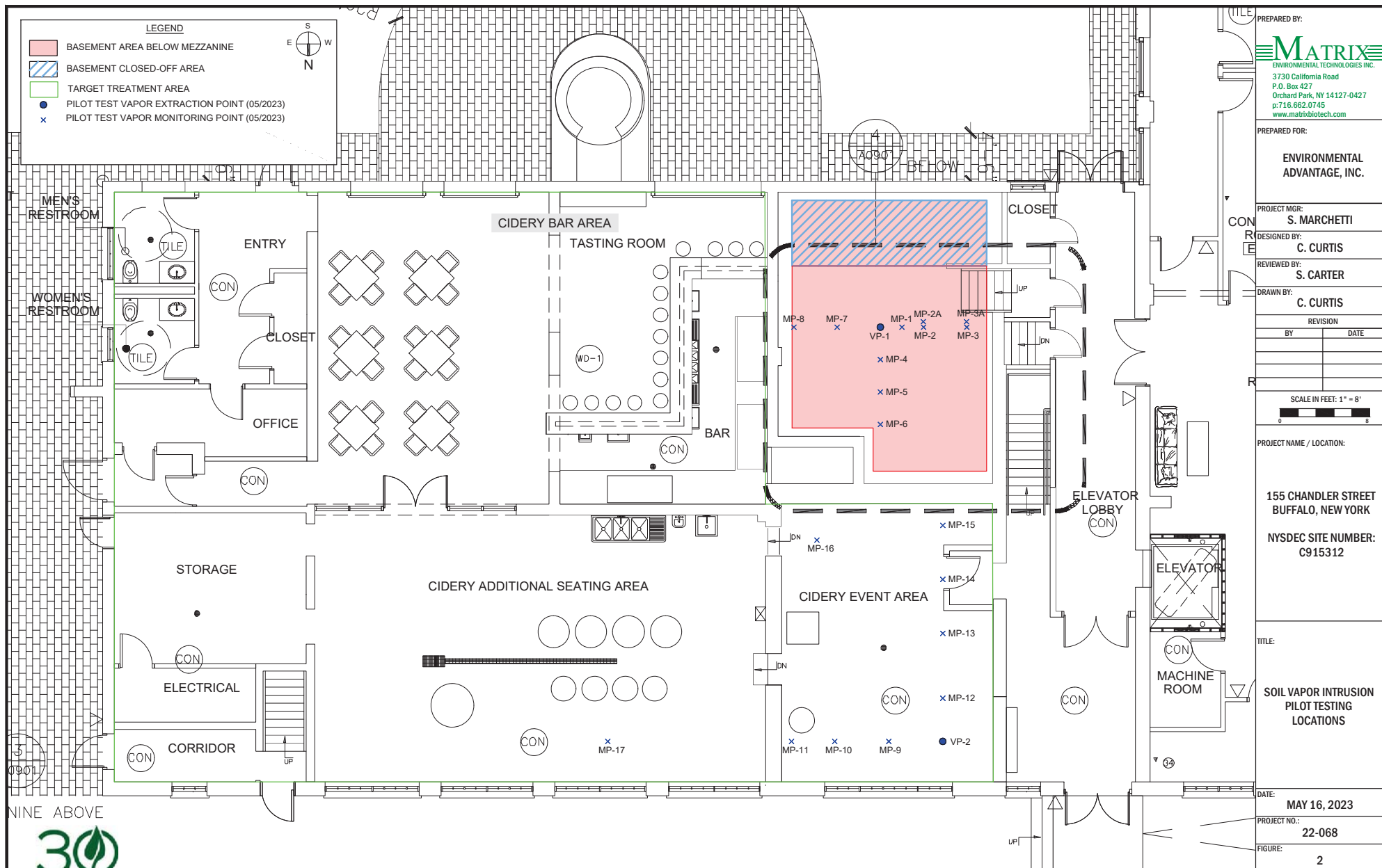
The SSD system was installed in three phases from November 2023 through May 2024 and was activated on June 11, 2024. Deviations from the approved Work Plan included relocation of the blower to the roof of the building and relocation of EW-2 (now EW-2R) and MP-1 (now MP-1R) within the basement area.

The regenerative blower is currently operating at 25-26 inches W.C. corresponding to flow rates of 163-165 SCFM. Vacuum readings in the vapor extraction points range from approximately 20 to 50 inches W.C. Pre-carbon PID readings range from 0.0 to 0.9 ppm and are being reduced to 0.0 to 0.8 ppm in the system effluent (post-carbon). As discussed in Section 9.0, pre-carbon and post-carbon VOC concentrations remain non-detect or negligible. Emissions rate calculations included in **Table 4** indicate that the system discharge is below emissions limits for VOCs.

During all system checks completed to date, no vacuum influence has been observed in vapor monitoring points MP-5 and MP-6 located approximately 55-60 feet from EX-3 on the ground level. However, results of indoor air monitoring completed on January 8-9, 2024 indicate that indoor air concentrations are below target values for all contaminants of concern in the corridor/mail room and storage area, cidery bar area, and cidery additional seating area. Where TCE concentrations in indoor air exceeded the 1 $\mu\text{g}/\text{m}^3$ target concentration, it is recommended that the indoor air sampling event be repeated during the next heating season after sealing off air flow between the basement area and the mezzanine level. Sufficient vacuum influence above 0.002 inches W.C. was observed in all other vapor monitoring points.

FIGURES





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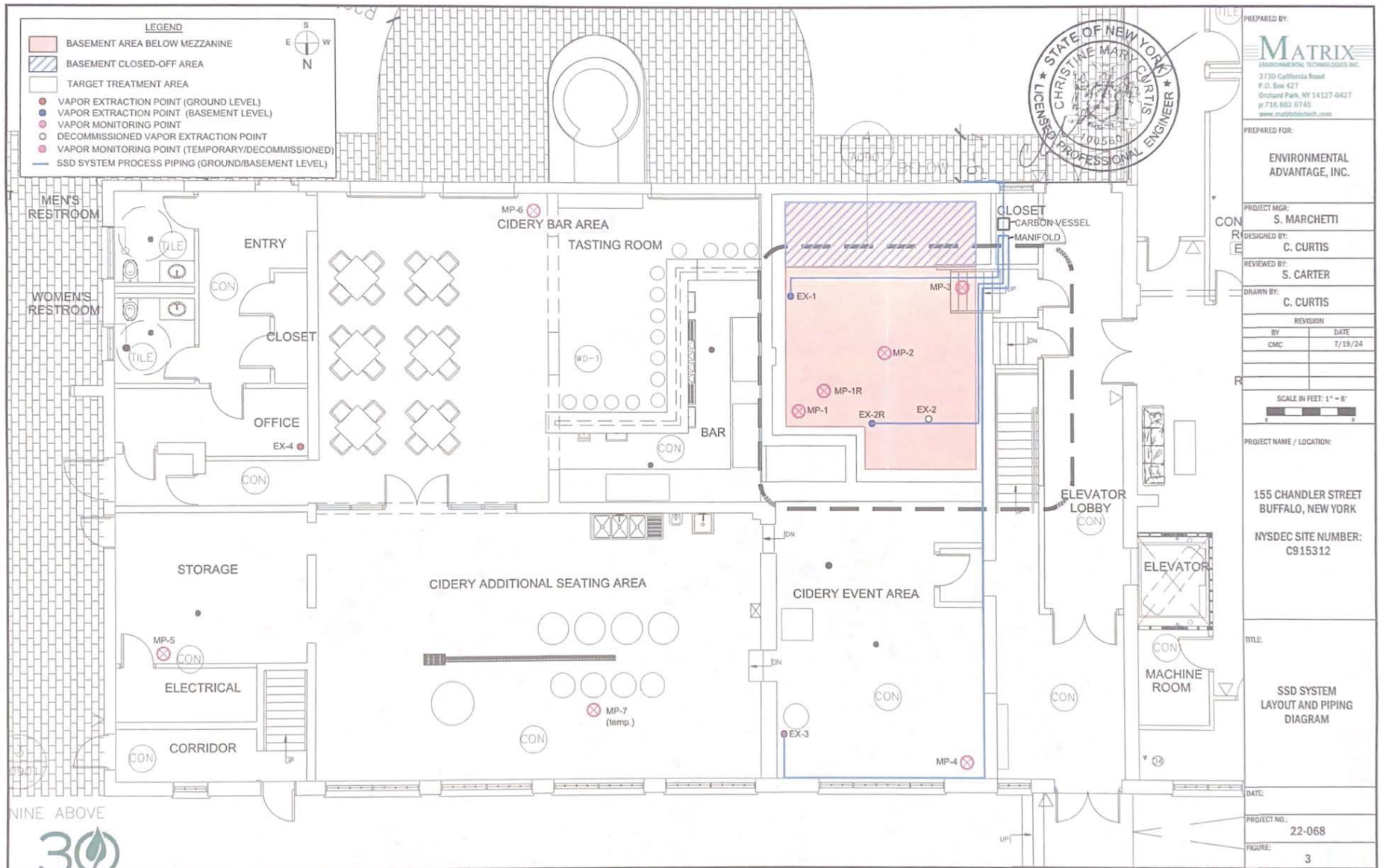
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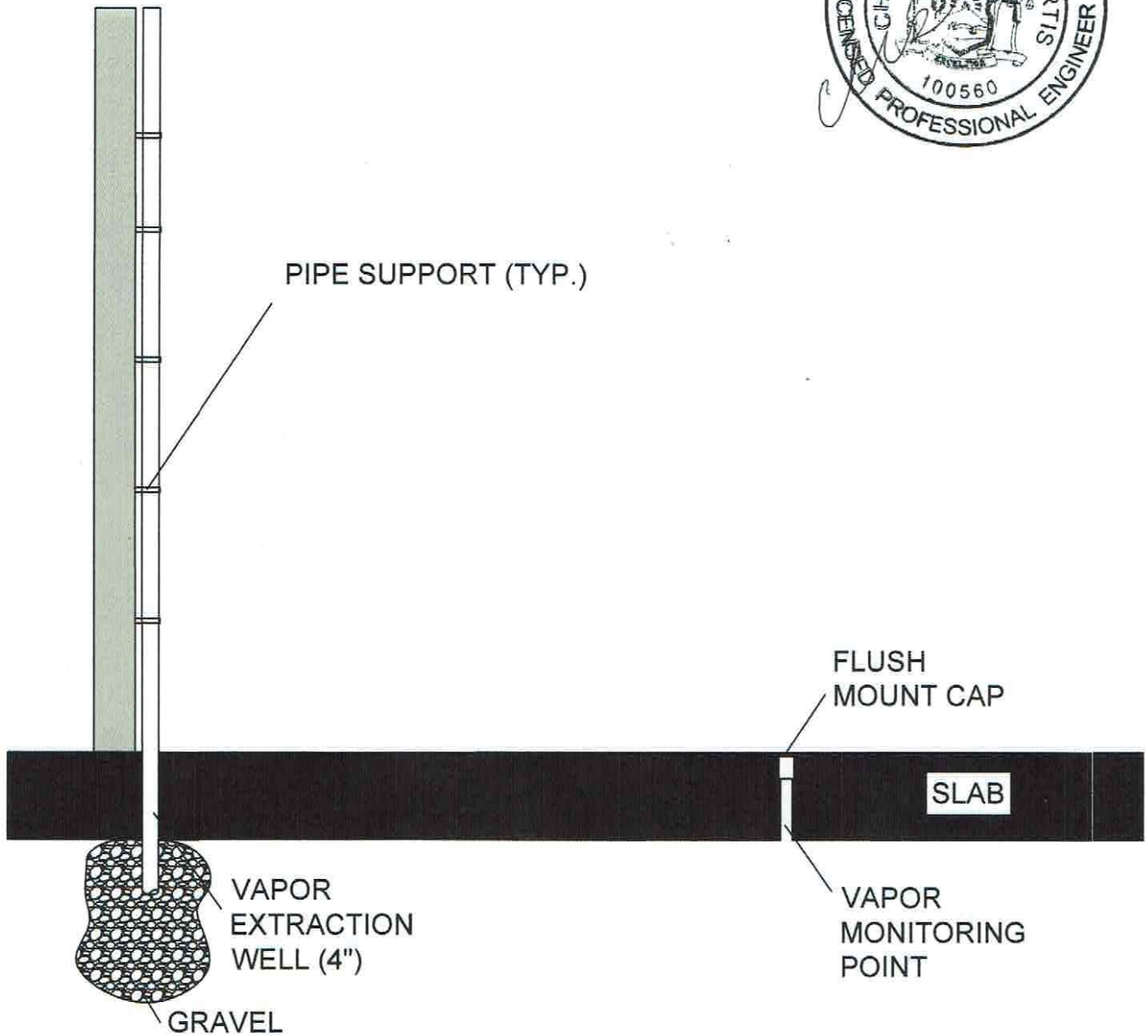
PROJECT NAME / LOCATION:
 155 CHANDLER STREET
 BUFFALO, NEW YORK
 NYSDEC SITE NUMBER:
 C915312

TITLE:
**SOIL VAPOR INTRUSION
 PILOT TESTING
 LOCATIONS**

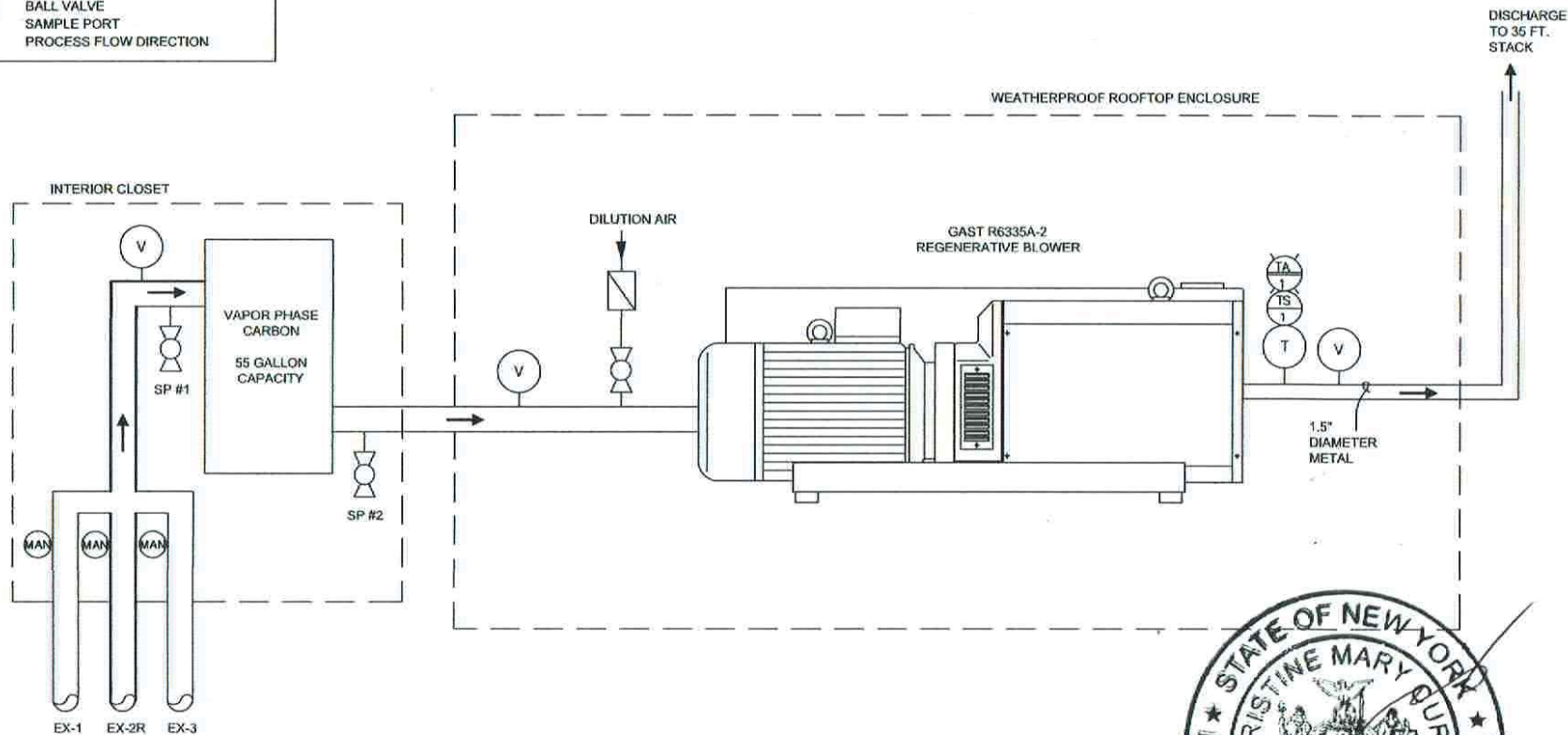




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PROJECT NAME / LOCATION:			
155 CHANDLER STREET BUFFALO, NEW YORK			
NYSDEC SITE NUMBER: C915312			
TITLE:			
SSD SYSTEM LAYOUT AND PIPING DIAGRAM			
DATE:			
PROJECT NO.		22-068	
FIGURE:		3	



PREPARED BY: 3170 Catherine Road P.O. Box 871 Glenfield, NY 14312-0871 419.232.8174 www.matrixenv.com	PROJECT MGR: SLM	PROJECT NAME / LOCATION: 155 CHANDLER STREET BUFFALO, NEW YORK NYSDEC SITE NO. C915312	TITLE: VAPOR EXTRACTION POINT AND MONITORING POINT DETAIL	REVISION		PROJECT NO.: 22-068
	DESIGNED BY: CMC			BY CMC	DATE 10/31/24	FIGURE: 4
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SCALE IN FEET: N/A

PROJECT NAME / LOCATION:
**155 CHANDLER STREET
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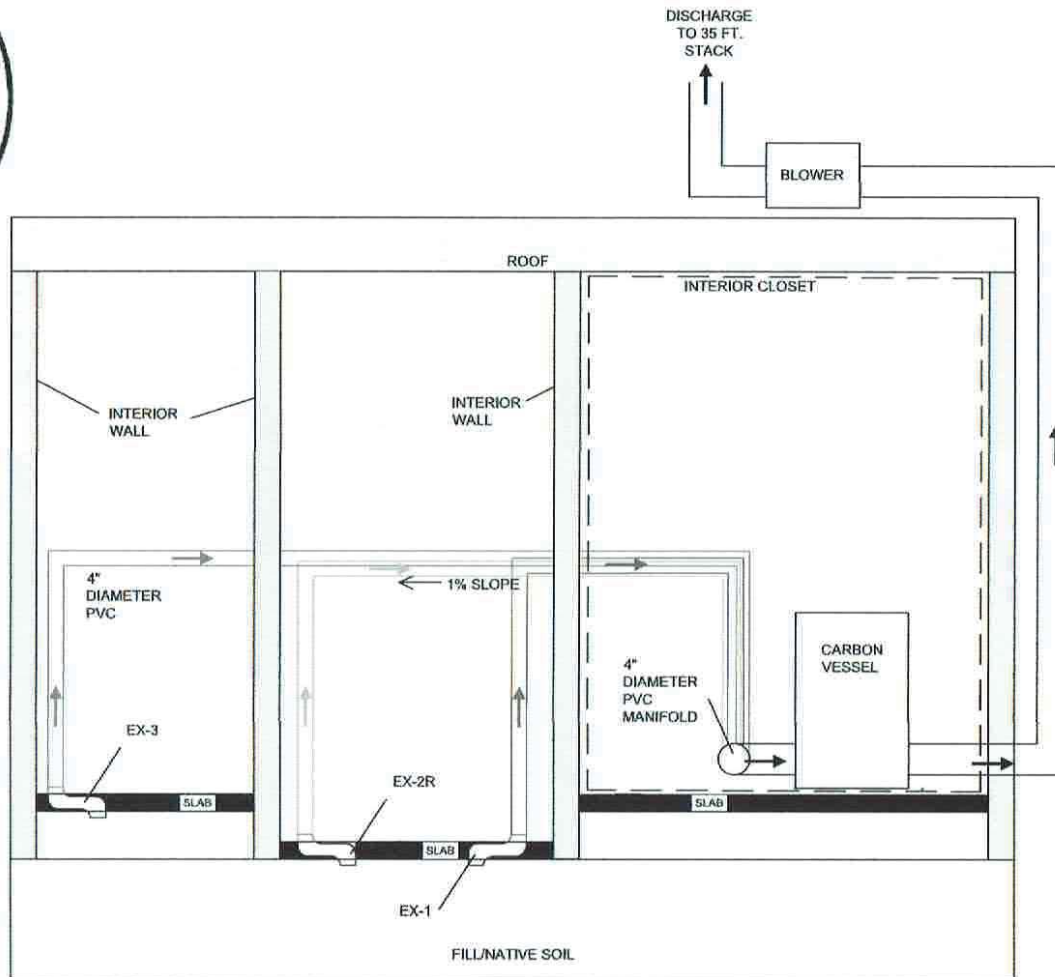
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C915312

TITLE:
PROCESS AND INSTRUMENTATION DIAGRAM

DATE:
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22-068

FIGURE:
5



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CMC	10/31/24

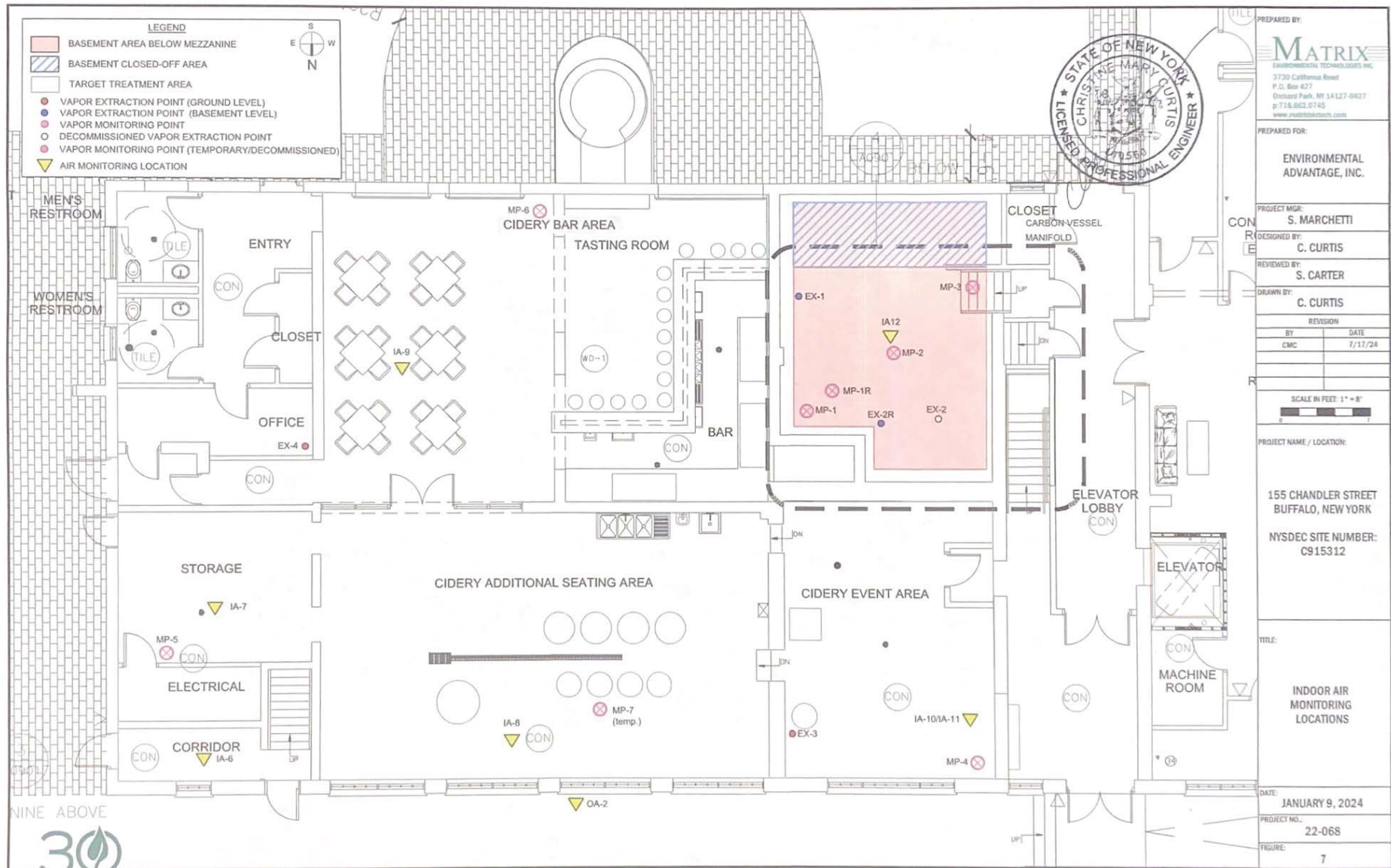
SCALE IN FEET: N/A

PROJECT NAME / LOCATION:
**155 CHANDLER STREET
 BUFFALO, NEW YORK**
 NYSDEC SITE NUMBER:
C915312

TITLE:
**SSD SYSTEM LAYOUT -
 PROFILE VIEW**

DATE:
 PROJECT NO.:
22-068

FIGURE:
6



TABLES

November 30, 2023

Vacuum at Blower (" H ₂ O)	Vacuum Post-Blower (" H ₂ O)	Vacuum at Header (" H ₂ O)	Vacuum at EX1 (" H ₂ O)	Vacuum at EX2R (" H ₂ O)	Vacuum at EX3 (" H ₂ O)	Flow Rate (scfm)	Monitoring Point							
							MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7
							Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)
19	4.50	10	9	10	9	98.8	0.000	0.000	0.078	8.55	0.005	0.000	0.000	0.000
29	7.00	15	13	14	13	105.5	0.000	0.000	0.110	12.03	0.007	0.000	0.000	0.000
35	9.97	21	18	19	18	94.8	0.000	0.000	0.148	16.12	0.008	0.000	0.000	0.000
38	10.53	23	20	21	19	102.9	0.000	0.000	0.145	17.15	0.009	0.000	0.000	0.000
End of Test #1														

Vacuum at Blower (" H ₂ O)	Vacuum Post-Blower (" H ₂ O)	Vacuum at Header (" H ₂ O)	Vacuum at EX1 (" H ₂ O)	Vacuum at EX2R (" H ₂ O)	Vacuum at EX3 (" H ₂ O)	Flow Rate (scfm)	Monitoring Point			
							MP-1	MP-1R	MP-2	MP-3
							Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)
Extraction Point EX-2R Distance from EX-2R (ft.) →							7.0	5.5	6.7	15.4
24		20	OFF	ON	OFF	24.0	0.000	0.000	0.000	0.000
		40					0.000	0.000	0.026	0.014
58		55				26.7	0.000	0.000	0.001	0.000
End of Test #2										

NOTE: Possible water in lines at 55" H2O applied vacuum.

Vacuum at Blower (" H ₂ O)	Vacuum Post- Blower (" H ₂ O)	Vacuum at Header (" H ₂ O)	Vacuum at EX1 (" H ₂ O)	Vacuum at EX2R (" H ₂ O)	Vacuum at EX3 (" H ₂ O)	Flow Rate (scfm)	Monitoring Point			
							MP-4	MP-5	MP-6	MP-7
							Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)
Extraction Point EX-3 Distance from EX-3 (ft.) →							17.4	58.5	54.2	18.1
50	7.13	39	OFF	OFF	35	162.5	0.013	0.000	0.000	0.000
End of Test #3										

TABLE 3
SSD SYSTEM OPERATIONAL DATA SUMMARY

155-157 Chandler Street, Buffalo, New York

NYSDEC Site No. C915312

Date	Vacuum at Header (in W.C.)	Air Flow Rate (SCFM)	Pre-Carbon OVM Reading (ppm)	Post-Carbon OVM Reading (ppm)	Vacuum at Vapor Extraction Points (in W.C.)			Vacuum at Vapor Monitoring Points (in W.C.)						
					EX-1	EX-2R	EX-3	MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
Distance to nearest Extraction Point (ft.)								7.1	5.5	6.7	15.4	17.4	59.0	54.3
1/8/2024	35		NR	NR	31	31	30	0.000	0.001	5.979	24.00	0.334	0.000	0.000
3/5/2024	31	153	0.4	1.7	22.86	23.47	21.37	0.000	0.000	4.424	16.54	0.255	0.000	0.000
SYSTEM ACTIVATION 6/11/24														
6/11/2024	26	163	0	0	21.13	21.62	19.88	0.000	0.112	4.964	15.75	0.198	0.000	0.000
6/18/2024	25	165	0	0	20.47	20.89	19.05	0.012	0.126	5.007	15.69	0.209	0.000	0.000
6/25/2024	25	165	0	0.1	20.64	21.05	19.18	0.021	0.108	5.110	15.89	0.210	0.000	0.000
7/2/2024	25	165	0.9	0.3	51.94	52.85	48.33	0.013	0.108	5.515	16.12	0.207	0.000	0.000
7/9/2024	25	165	0.6	0.8	51.62	52.75	43.11	0.044	0.211	13.00	40.21	0.504	0.000	0.000

NR = Not Recorded

TABLE 4
PRE- AND POST-CARBON ANALYTICAL DATA SUMMARY AND EMISSIONS RATE CALCULATIONS

155-157 Chandler Street, Buffalo, New York
NYSDEC Site No. C915312

February 8, 2024

LOCATION	PRE-CARBON	POST-CARBON	Flow Rate (scfm)	Emission Rate (lb/hr)	Emission Rate (lb/yr)	Emission Limit (lb/yr)
Analyte	Concentration (ug/m3)	Concentration (ug/m3)				
1,2,4-Trimethylbenzene	1.79	1.65	153	9.46E-07	0.008	
2-Butanone	5.46	ND	153			
Acetone	13	13.5	153	7.74E-06	0.068	
Benzene	3.96	0.885	153	5.07E-07	0.004	100
Carbon disulfide	0.666	1.25	153	7.17E-07	0.006	
Carbon tetrachloride	20	ND	153			100
Chloroform	7.86	ND	153			
Chloromethane	0.562	0.558	153	3.20E-07	0.003	
cis-1,2-Dichloroethene	4.32	ND	153			
Dichlorodifluoromethane	2.63	2.51	153	1.44E-06	0.013	
Ethanol	21.5	26.2	153	1.50E-05	0.132	
Ethyl Acetate	25.3	16.2	153	9.29E-06	0.081	
Isopropanol	9.66	21.3	153	1.22E-05	0.107	
Methylene chloride	4.2	ND	153			
n-Hexane	1.97	3.59	153	2.06E-06	0.018	
o-Xylene	0.908	1.19	153	6.82E-07	0.006	
p/m-Xylene	2.16	3.26	153	1.87E-06	0.016	
Tetrachloroethene	3.87	ND	153			1,000
Tetrahydrofuran	6.93	67.8	153	3.89E-05	0.341	
Toluene	2.76	2.29	153	1.31E-06	0.012	
Trichloroethene	372	ND	153			500
Trichlorofluoromethane	1.98	1.79	153	1.03E-06	0.009	
TOTAL VOCs	513.5	164.0	153	9.40E-05	0.824	

TABLE 4 (CONTINUED)
PRE- AND POST-CARBON ANALYTICAL DATA SUMMARY AND EMISSIONS RATE CALCULATIONS
155-157 Chandler Street, Buffalo, New York
NYSDEC Site No. C915312

March 12, 2024

LOCATION	PRE-CARBON	POST-CARBON	Flow Rate (scfm)	Emission Rate (lb/hr)	Emission Rate (lb/yr)	Emission Limit (lb/yr)
Analyte	Concentration (ug/m3)	Concentration (ug/m3)				
1,2,4-Trimethylbenzene	2.07	1.66	165	1.03E-06	0.009	
2-Butanone	2.07	ND	165			
Acetone	8.39	13.8	165	8.53E-06	0.075	
Benzene	0.994	4.98	165	3.08E-06	0.027	100
Carbon disulfide	0.732	ND	165			
Carbon tetrachloride	16	ND	165			100
Chloroform	6.25	4.79	165	2.96E-06	0.026	
Chloromethane	0.504	0.663	165	4.10E-07	0.004	
cis-1,2-Dichloroethene	3.67	3.71	165	2.29E-06	0.020	
Dichlorodifluoromethane	2.24	2.35	165	1.45E-06	0.013	
Ethanol	39.8	66.3	165	4.10E-05	0.359	
Ethyl Acetate	38.9	34.5	165	2.13E-05	0.187	
Ethylbenzene	1.28	2.65	165	1.64E-06	0.014	
Heptane	ND	1.16	165	7.17E-07	0.006	
Isopropanol	4.33	7.15	165	4.42E-06	0.039	
o-Xylene	1.47	2.85	165	1.76E-06	0.015	
p/m-Xylene	5.21	10.9	165	6.74E-06	0.059	
Tetrachloroethene	1.45	ND	165			1,000
Tetrahydrofuran	4.19	49	165	3.03E-05	0.265	
Toluene	4.15	7.99	165	4.94E-06	0.043	
Trichloroethene	294	ND	165			500
Trichlorofluoromethane	1.61	1.6	165	9.89E-07	0.009	
TOTAL VOCs	439.3	216.1	165	1.34E-04	1.170	

TABLE 4 (CONTINUED)
PRE- AND POST-CARBON ANALYTICAL DATA SUMMARY AND EMISSIONS RATE CALCULATIONS
155-157 Chandler Street, Buffalo, New York
NYSDEC Site No. C915312

April 11, 2024

LOCATION	PRE-CARBON	POST-CARBON	Flow Rate (scfm)	Emission Rate (lb/hr)	Emission Rate (lb/yr)	Emission Limit (lb/yr)
Analyte	Concentration (ug/m3)	Concentration (ug/m3)				
1,2,4-Trimethylbenzene	4.97	6.00	165	3.71E-06	0.032	
1,3,5-Trimethylbenzene	1.49	1.86	165	1.15E-06	0.010	
2-Butanone	2.3	ND	165			
4-Ethyltoluene	1.17	1.75	165	1.08E-06	0.009	
Acetone	58.9	23.6	165	1.46E-05	0.128	
Benzene	1.23	1.42	165	8.78E-07	0.008	100
Carbon disulfide	1.07	1.00	165	6.18E-07	0.005	
Carbon tetrachloride	22.8	1.37	165	8.47E-07	0.007	100
Chloroform	8.64	8.69	165	5.37E-06	0.047	
Chloromethane	0.603	0.632	165	3.91E-07	0.003	
cis-1,2-Dichloroethene	5.79	5.51	165	3.41E-06	0.030	
Dichlorodifluoromethane	2.28	2.54	165	1.57E-06	0.014	
Ethanol	61	96.1	165	5.94E-05	0.520	
Ethyl Acetate	40.7	38.2	165	2.36E-05	0.207	
Ethylbenzene	10.8	22.5	165	1.39E-05	0.122	
Isopropanol	232	40.1	165	2.48E-05	0.217	
Methylene chloride	ND	2.73	165	1.69E-06	0.015	
o-Xylene	17.6	34.9	165	2.16E-05	0.189	
p/m-Xylene	50.8	104	165	6.43E-05	0.563	
Tetrachloroethene	21.6	ND	165			1,000
Tetrahydrofuran	4.75	24.7	165	1.53E-05	0.134	
Toluene	4.33	7.12	165	4.40E-06	0.039	
trans-1,2-Dichloroethene	0.88	ND	165			
Trichloroethene	303	ND	165			500
Trichlorofluoromethane	1.69	2.03	165	1.26E-06	0.011	
TOTAL VOCs	860.4	426.8	165	2.64E-04	2.311	

NOTE: Only detected compounds are shown. For full list of analytes, refer to the laboratory analytical report.
ND = Non-Detect

TABLE 4 (CONTINUED)
PRE- AND POST-CARBON ANALYTICAL DATA SUMMARY AND EMISSIONS RATE CALCULATIONS
155-157 Chandler Street, Buffalo, New York
NYSDEC Site No. C915312

July 9, 2024

LOCATION	PRE-CARBON	POST-CARBON	Flow Rate (scfm)	Emission Rate (lb/hr)	Emission Rate (lb/yr)	Emission Limit (lb/yr)
Analyte	Concentration (ug/m3)	Concentration (ug/m3)				
1,2,4-Trimethylbenzene	5.41	6.15	165	3.80E-06	0.033	
1,3,5-Trimethylbenzene	1.36	1.57	165	9.71E-07	0.009	
2-Butanone	1.95	1.7	165	1.05E-06	0.009	
4-Ethyltoluene	ND	1.37	165	8.47E-07	0.007	
4-Methyl-2-pentanone	6.07	ND	165	0.00E+00	0.000	
Acetone	50.4	42.3	165	2.62E-05	0.229	
Benzene	1.34	6.68	165	4.13E-06	0.036	100
Carbon disulfide	3.02	3.89	165	2.41E-06	0.021	
Carbon tetrachloride	19.3	28.4	165	1.76E-05	0.154	100
Chloroform	8.84	8.74	165	5.40E-06	0.047	
Chloromethane	0.477	0.522	165	3.23E-07	0.003	
cis-1,2-Dichloroethene	3.56	4.24	165	2.62E-06	0.023	
Cyclohexane	0.743	1.33	165	8.22E-07	0.007	
Dichlorodifluoromethane	2.09	2.33	165	1.44E-06	0.013	
Ethanol	50.7	76.1	165	4.71E-05	0.412	
Ethyl Acetate	ND	35.2	165	2.18E-05	0.191	
Ethylbenzene	1.71	2.75	165	1.70E-06	0.015	
Heptane	ND	0.865	165	5.35E-07	0.005	
Isopropanol	156	246	165	1.52E-04	1.332	
n-Hexane	2.26	9.76	165	6.03E-06	0.053	
o-Xylene	3.07	4.52	165	2.79E-06	0.024	
p/m-Xylene	8.6	13.5	165	8.35E-06	0.073	
Tertiary butyl Alcohol	2.24	ND	165	0.00E+00	0.000	
Tetrachloroethene	2.85	ND	165	0.00E+00	0.000	1,000
Tetrahydrofuran	1.94	2.63	165	1.63E-06	0.014	
Toluene	6.22	11.9	165	7.36E-06	0.064	
trans-1,2-Dichloroethene	1.19	0.975	165	6.03E-07	0.005	
Trichloroethene	284	383	165	2.37E-04	2.074	500
Trichlorofluoromethane	1.75	1.69	165	1.04E-06	0.009	
TOTAL VOCs	629.4	907.9	165	5.61E-04	4.917	

NOTE: Only detected compounds are shown. For full list of analytes, refer to the laboratory analytical report.
ND = Non-Detect

Table 5
Indoor Air Monitoring Analytical Results
155-157 Chandler Street, Buffalo, New York
NYSDEC Site No. C915312

LOCATION	Guidance Values - Indoor Air			IA-6	IA-6 Duplicate	IA-7	IA-8	IA-9	IA-10/IA-11	IA-12	OA-2	Table C2 Outdoor Air Guidance Values
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Matrix Value	NYSDOH Air Guideline Value									
	SAMPLING DATE			1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	
LAB SAMPLE ID				L2401917-02	L2401917-03	L2401917-04	L2401917-05	L2401917-06	L2401917-07	L2401917-08	L2401917-01	
Volatile Organics in Air (ug/m³)												
1,1,1-Trichloroethane*	20.6	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	2.6
1,1,2,2-Tetrachloroethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
1,1,2-Trichloroethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6
1,1-Dichloroethane	<0.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.6
1,1-Dichloroethene*	<1.4	1	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.4
1,2,4-Trichlorobenzene*	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<6.4
1,2,4-Trimethylbenzene	9.5	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	5.8
1,2-Dibromoethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6
1,2-Dichlorobenzene	<1.2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.2
1,2-Dichloroethane	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.8
1,2-Dichloropropane	<1.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6
1,3,5-Trimethylbenzene	3.7	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	2.7
1,3-butadiene	<3.0	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<3.4
1,3-Dichlorobenzene	<2.4	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<2.2
1,4-Dichlorobenzene	5.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.2
1,4-Dioxane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
2,2,4-trimethylpentane	NV	10	NV	3.69	4.01	ND	ND	ND	ND	ND	ND	NV
2-Butanone (Methyl Ethyl Ketone)	12	NV	NV	ND	1.59	1.63	1.81	ND	2	3.07	ND	11.3
2-Hexanone (Methyl Butyl Ketone)	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
3-Chloropropene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
4-ethyltoluene	3.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	3.0
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.9
Acetone	98.9	NV	NV	8.48	13.9	11.4	8.36	7.82	9.55	15.5	8.81	43.7
Benzene	9.4	10	NV	1.08	1.17	ND	ND	ND	0.668	ND	ND	6.6
Benzyl chloride	<6.8	NV	NV	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	<6.4
Bromodichloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Bromoform	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Bromomethane	<1.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6
Carbon disulfide	4.2	NV	NV	ND	ND	ND	ND	1.09	ND	ND	ND	3.7
Carbon tetrachloride*	<1.3	1	NV	0.478	0.478	0.522	0.516	0.516	0.572	0.554	0.497	0.7
Chlorobenzene	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.8
Chloroethane	<1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.2
Chloroform	1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	0.6
Chloromethane	3.7	NV	NV	1.18	1.33	1.26	1.2	1.18	1.2	1.28	1.21	3.7
cis-1,2-Dichloroethene*	<1.9	1	NV	ND	ND	ND	ND	0.139	ND	ND	ND	<1.8
cis-1,3-Dichloropropene	<2.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<2.2
Cyclohexane	NV	10	NV	1.8 J	2.18 J	ND J	ND J	ND J	ND J	ND J	ND J	NV
Dibromochloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Dichlorodifluoromethane	18.5	NV	NV	2.47	2.52	2.58	2.6	2.64	2.68	2.64	2.53	8.1
Ethanol	210	NV	NV	54.8	65	73.7	82.5	96.3	72.9	86.7	ND	57
Ethyl acetate	5.4	NV	NV	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	1.5
Ethylbenzene	5.7	10	NV	1.04	1.16	ND	ND	ND	ND	ND	ND	3.5
Freon 113	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Freon 114	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Heptane	NV	20	NV	3.59	4.04	ND	ND	ND	ND	1.44	ND	NV
Hexachlorobutadiene	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<6.4
Isopropanol	250	NV	NV	9.41	9.51	12.6	14.8	13.4	15.7	39.6	ND	16.5
Methyl tert-butyl ether	11.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	6.2
Methylene chloride	10	10	60	ND	ND	ND	ND	ND	ND	ND	ND	6.1
n-Hexane	10.2	20	NV	3.77	4.19	ND	ND	ND	0.892	ND	ND	6.4
Naphthalene	5.1	10	NV	NT	NT	NT	NT	NT	NT	NT	NT	4.9
o-Xylene	7.9	10	NV	1.35	1.53	ND	ND	ND	ND	ND	ND	4.6
p,m-Xylene	22.2	20	NV	3.73	4.11	ND	ND	ND	ND	ND	ND	12.8
Styrene	1.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.3
Tertiary butyl Alcohol	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Tetrachloroethene*	15.9	10	30	0.224	0.292	0.271	0.271	0.373	0.739	0.264	0.224	6.5
Tetrahydrofuran	NV	NV	NV	1.53	1.73	2.91	3.24	2.59	3.8	4.84	ND	NV
Toluene	43	50	NV	8.25	9.08	1.81	1.31	1.21	1.93	1.41	1.27	33.7
trans-1,2-Dichloroethene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
trans-1,3-Dichloropropene	<1.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.4
Trichloroethene*	4.2	1	2	0.382	0.398	0.747	0.908	0.828	1.14	1.56	ND	1.3
Trichlorofluoromethane	18.1	NV	NV	1.39	1.45	1.43	1.43	1.43	1.45	1.44	1.42	4.3
Vinyl Bromide	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV
Vinyl chloride*	<1.9	0.2	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.8

Notes:

- Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
- Analytical testing for VOCs via TO-15 completed by Alpha Laboratories. * = samples analyzed for volatile organics in air by SIM.
- Results present in ug/m³ or microgram per cubic meter.
- Samples were collected during a 8-hour sample duration.
- 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.
- Air Guideline Values from "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2005, prepared by New York State Department of Health, and its updates.
- Grey shaded values represent exceedance of table C2 guidance values; yellow shaded values represents exceedance of NYSDOH Air Guideline Values; **BOLDED** = Exceedance of NYSDOH Matrix Guidelines.
- 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.
- ND = Non Detect; NV = No Value; NT = Not Tested; R1 = Analytical results are from sample re-analysis.
- Red values represent updated values based on data validation.

APPENDIX A

Pilot Testing Data Summary

Table 1
Soil Vapor Intrusion Pilot Test Data Summary - VP-1 (Basement Level)
155-157 Chandler Street, Buffalo, New York
May 16, 2023

Vacuum at Blower (" H ₂ O)	Blower Exhaust Reading (ppm)	Monitoring Point									
		MP-1	MP-2	MP-2A	MP-3	MP-3A	MP-4	MP-5	MP-6	MP-7	MP-8
		Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)	Vacuum (" H ₂ O)
Extraction Point VP-1 Distance from VP-1 (ft.) →		2	4	4	8	8	3	6	9	4	8
6	0	0.354	0.000	0.000							
12	9.2	0.644	0.000	0.074	0.000		0.495	0.146	0.311	0.019	0.006
20	8.6	0.837	0.000	0.123	0.000	0.000	0.771	0.511	0.026	0.280	0.000
30	5.0	1.117	0.000	0.213	0.006	0.000	1.251	0.395	0.004	0.355	0.000
45		1.182	0.000	0.275	0.008	0.000	1.499	0.062	0.023	0.270	0.000
End of test											

NOTE: Vacuum reading in MP-6 during test at 12" H₂O is considered an anomaly.

Chart 1: Pilot Test Results - VP-1 and Monitoring Data to the West

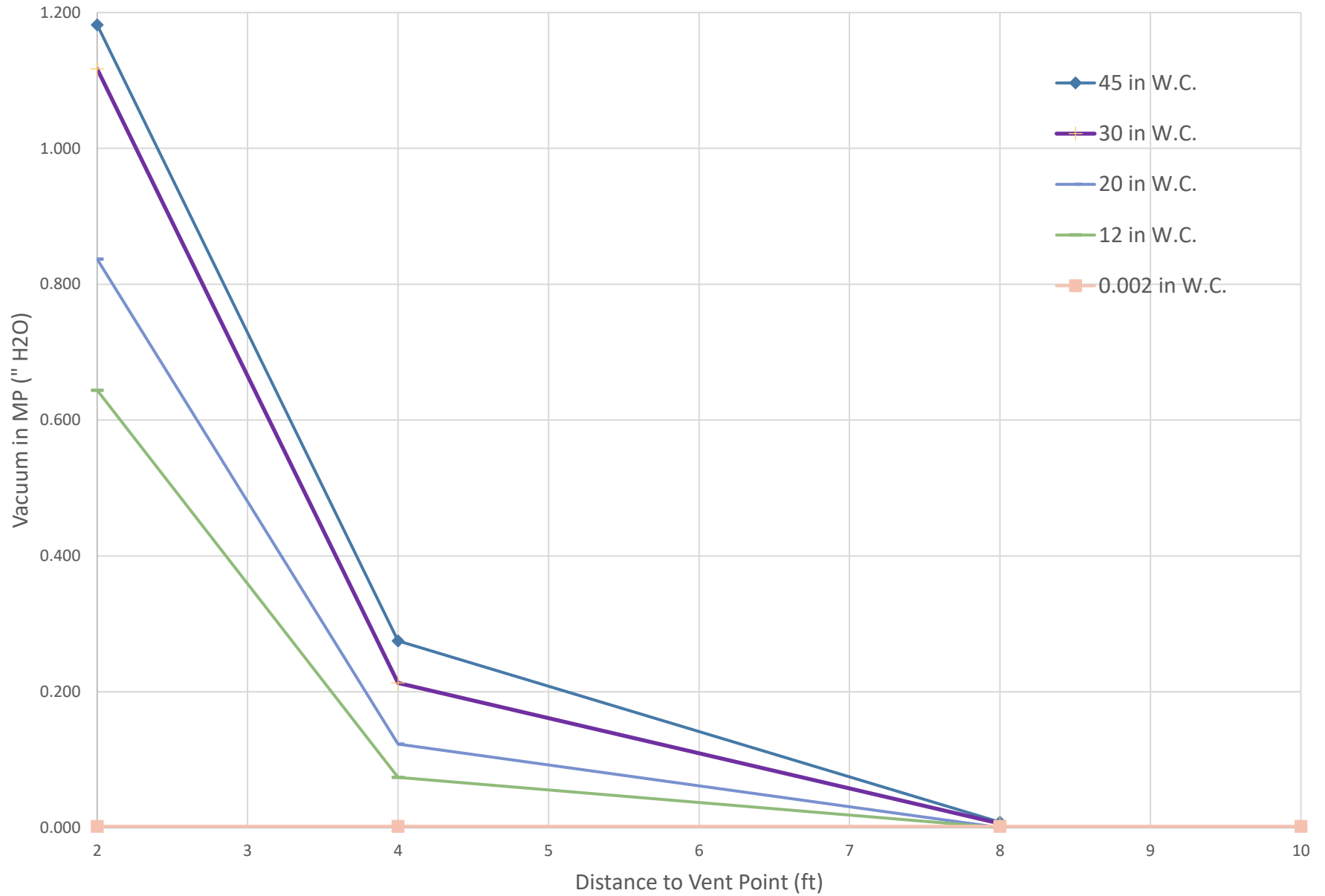


Chart 2: Pilot Test Results - VP-1 and Monitoring Points to the North

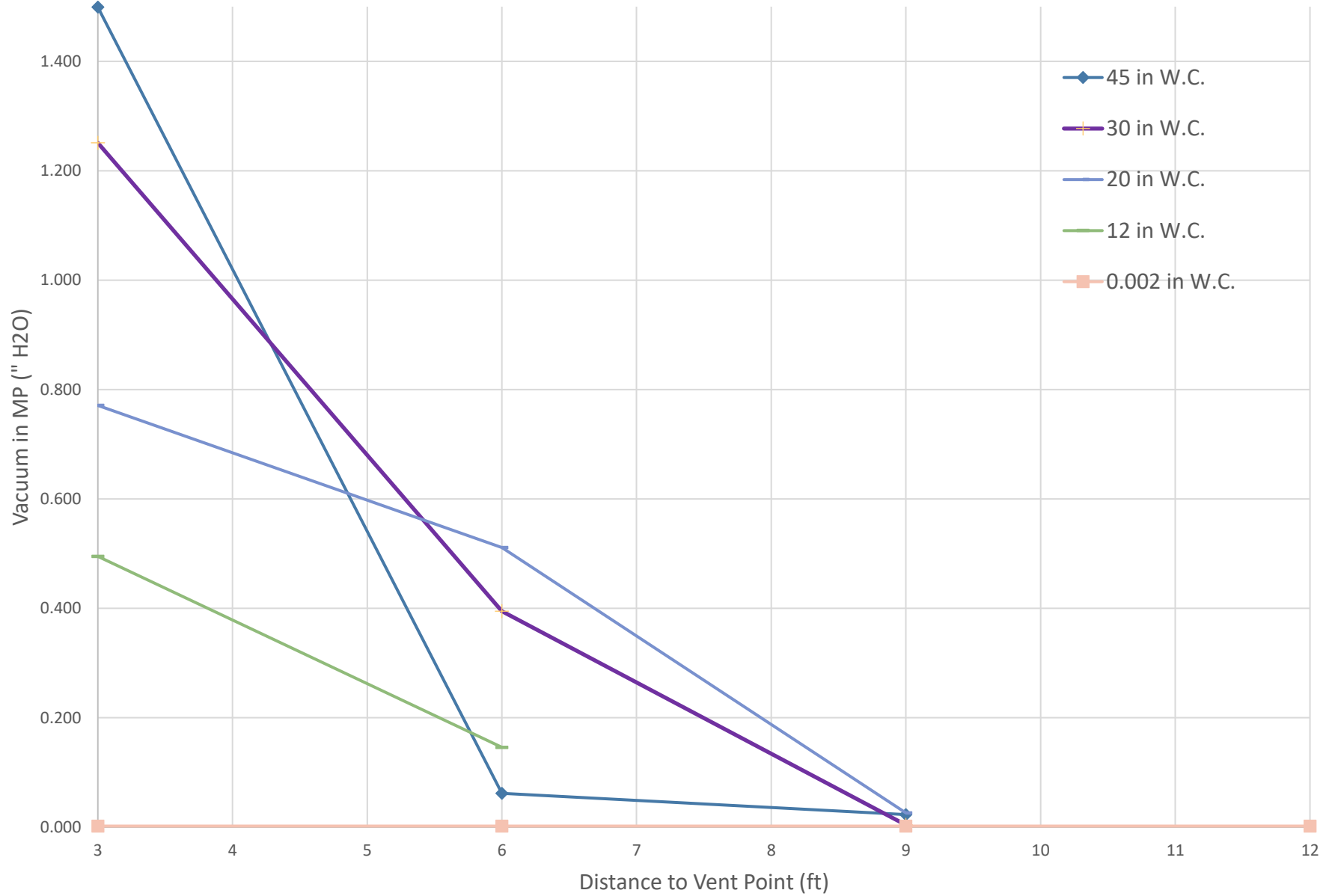


Chart 3: Pilot Test Results - VP-1 and Monitoring Data to the East

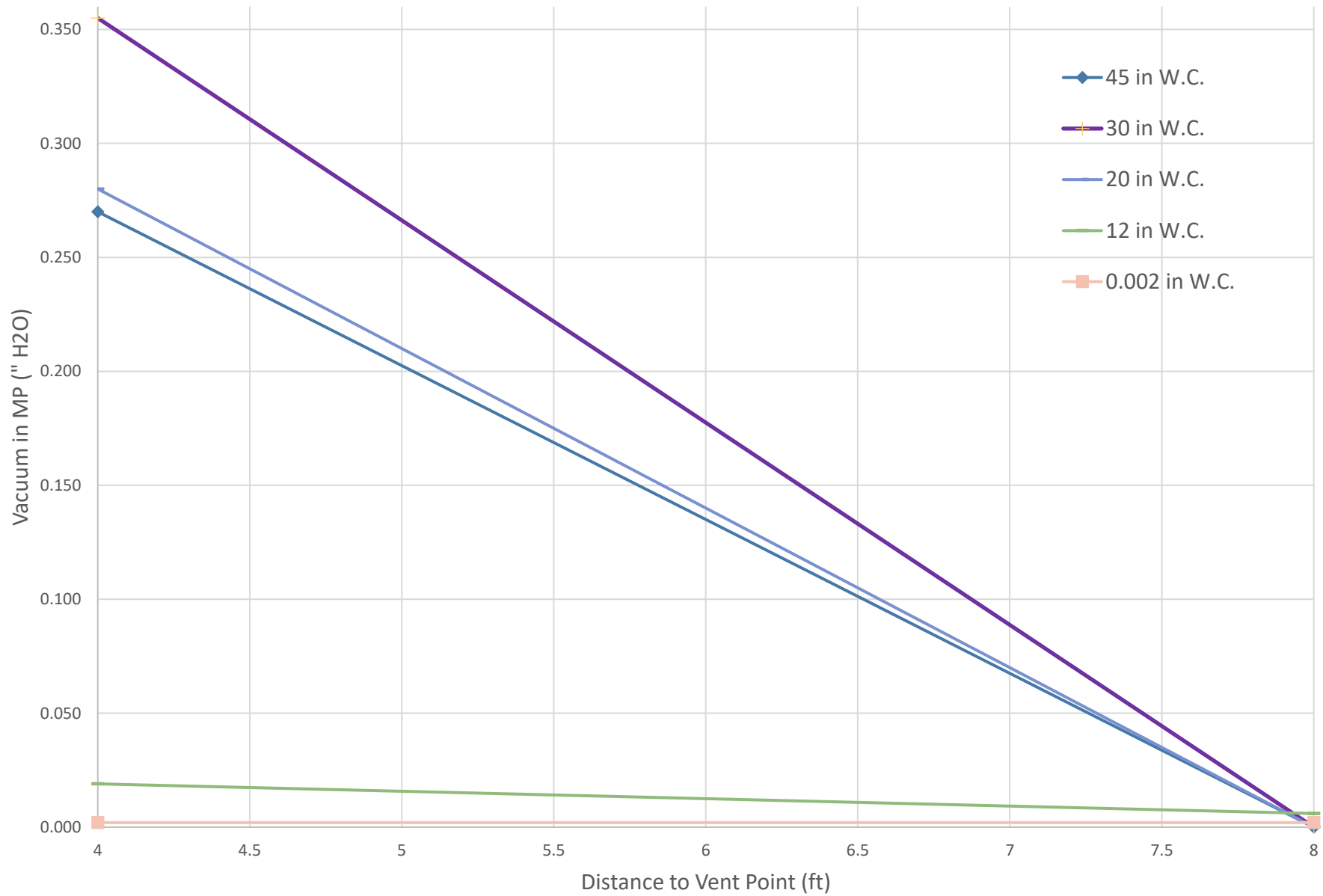


Chart 4: Pilot Test Results - VP-2 and Monitoring Points to the East

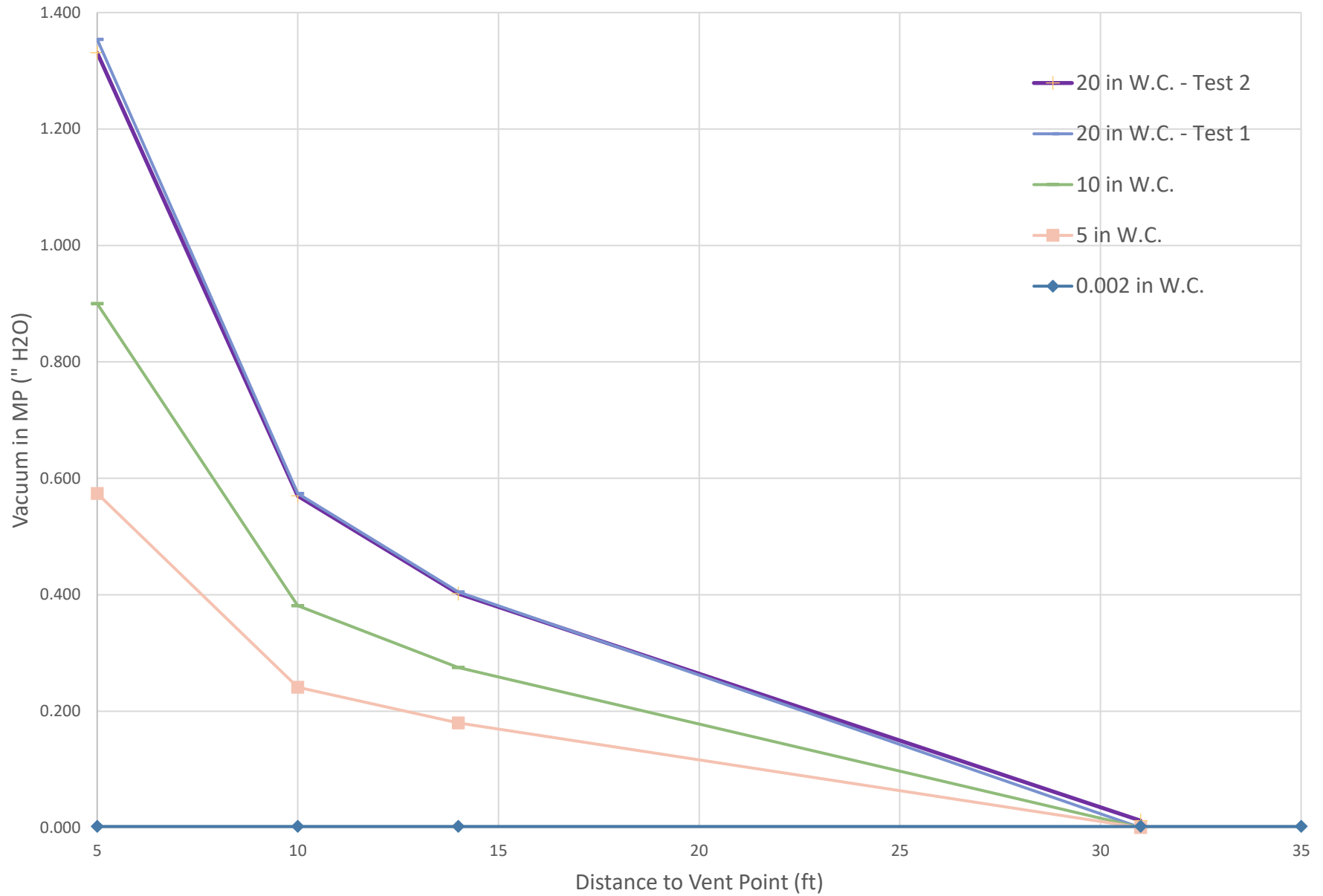
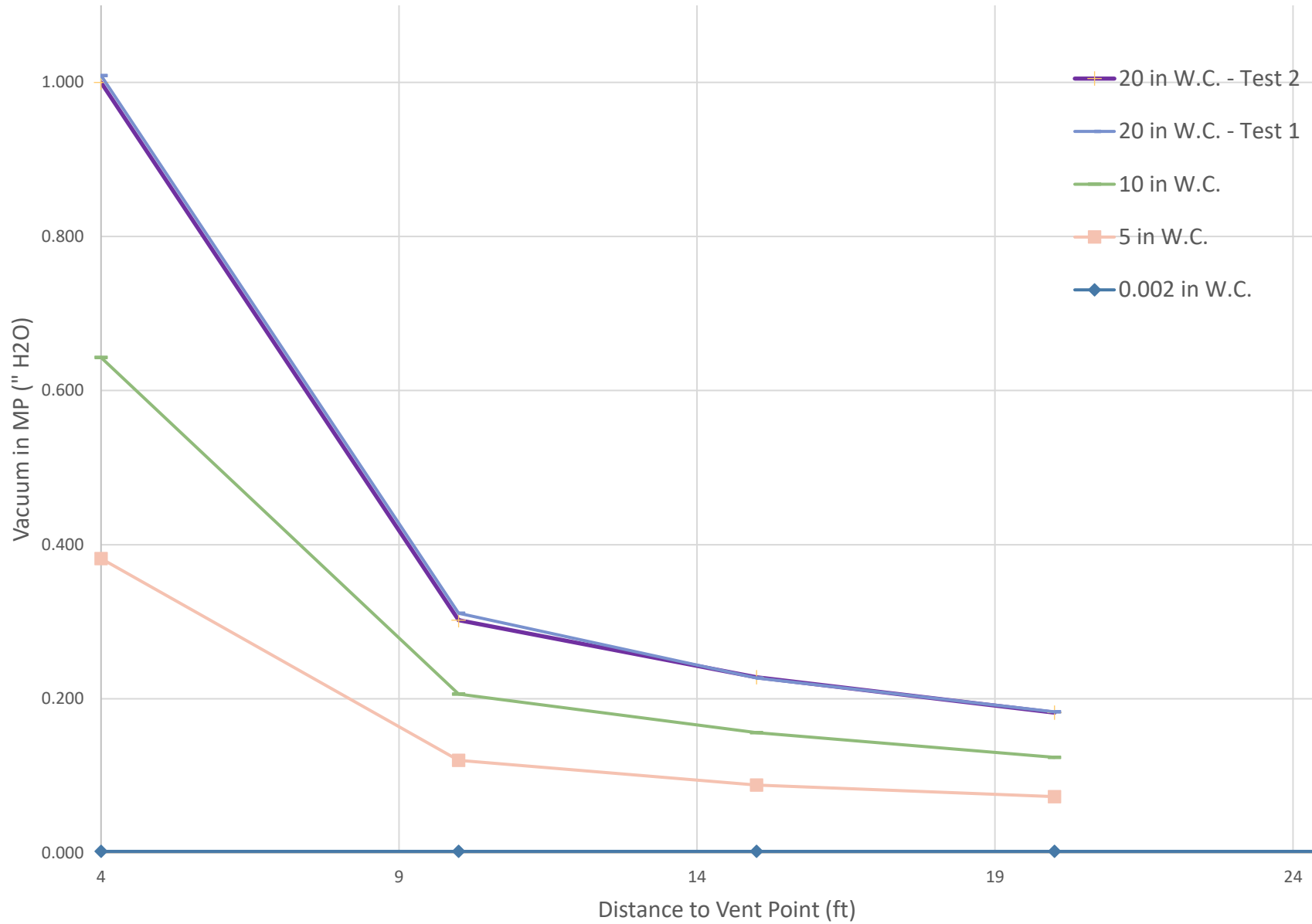


Chart 5: Pilot Test Results - VP-2 and Monitoring Points to the South



APPENDIX B

Equipment Specification Sheets

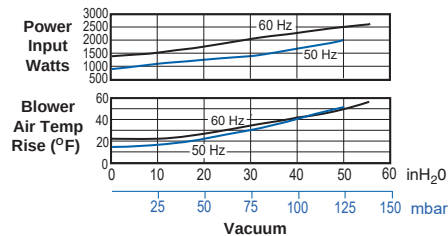
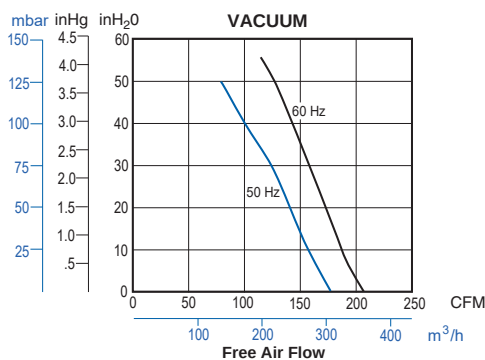
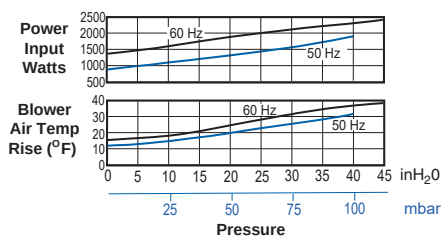
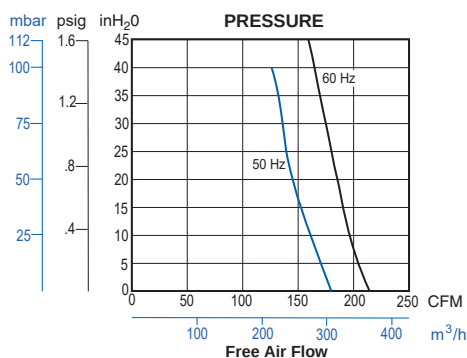
Product Specifications

MODEL NUMBER		R6125-2	R6325A-2	R6135J-10	R6335A-2
Motor Enclosure		TEFC	TEFC	ODP	TEFC
HP/kW	60 Hz	2.5/1,9	2.5/1,9	3.5/2,6	3.5/2,6
	50 Hz	1.5/1,1	1.85/1,38	-	2.5/1,9
Voltage	60 Hz	115/208-230-1	208-230/460-3	230-1	208-230/460-3
	50 Hz	110/220-240-1	190-220/380-415-3	-	190-220/380-415-3
Amps	60 Hz	22/12.5-11	6.9-6.9/3.45	19	9.7-8.8/4.4
	50 Hz	18/9.5	6.6-6.7/3.3-3.5	-	8.8/4-3.9
Starting Amps	60 Hz	58 @ 230V	58 @ 230V	125 @ 230V	50 @ 460V
	50 Hz	42 @ 240V	23.5 @ 380V	-	40.5 @ 380V
Insulation Class		F	B	F	F
Recommended NEMA Starter Size		1/0	0/00	1P	1/0
Net Weight (lbs/kg)		87/39,5	76/34,5	112/50,8	82/37,2

MODEL NUMBER		R6335B	R6150J-2	R6350A-2	R6350B-2
Motor Enclosure		TEFC	ODP	TEFC	TEFC
HP/kW	60 Hz	3.5/2,6	5.0/3,7	5.0/3,7	5.0/3,7
	50 Hz	-	-	4.8/3,6	-
Voltage	60 Hz	575-3	230-1	208-230/460-3	575-3
	50 Hz	-	-	190-220/380-415-3	-
Amps	60 Hz	3.6	22.3	13.0-12.0/6.0	4.8
	50 Hz	-	-	14.4-13.4/7.2-6.8	-
Starting Amps	60 Hz	34.9 @ 575V	96 @ 230V	125 @ 230V	35 @ 575V
	50 Hz	-	-	57 @ 380V	-
Insulation Class		F	F	F	F
Recommended NEMA Starter Size		0	1P	1/0	0
Net Weight (lbs/kg)		82/37,2	125/56,8	112/50,8	112/50,8

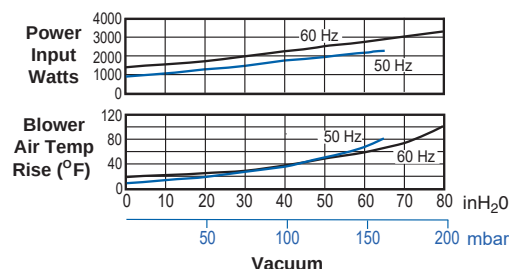
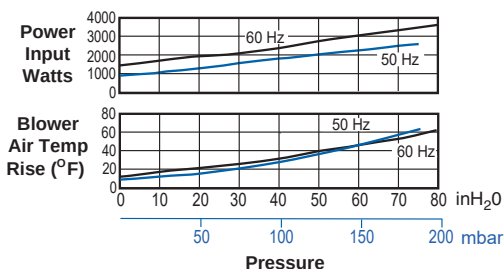
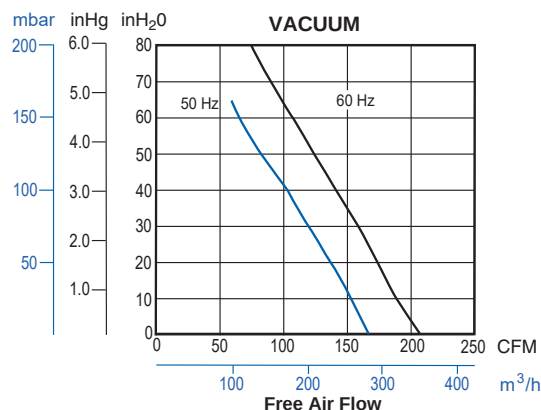
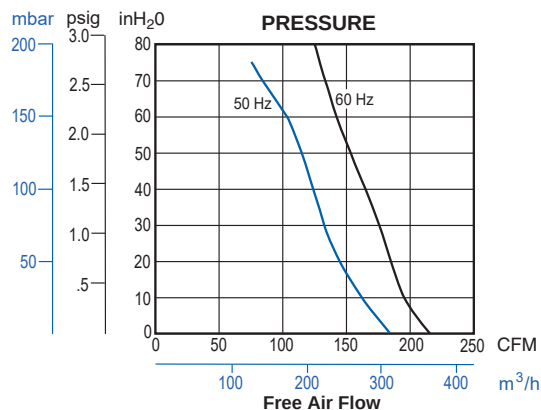
Product Performance

Models R6125-2, R6325A-2

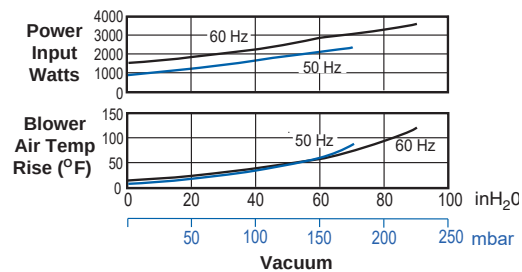
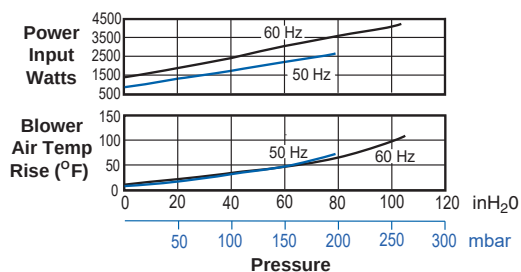
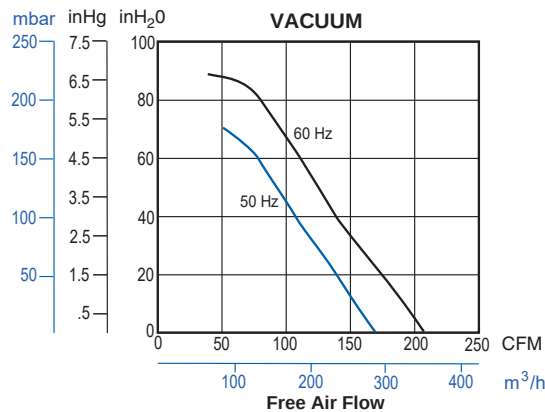
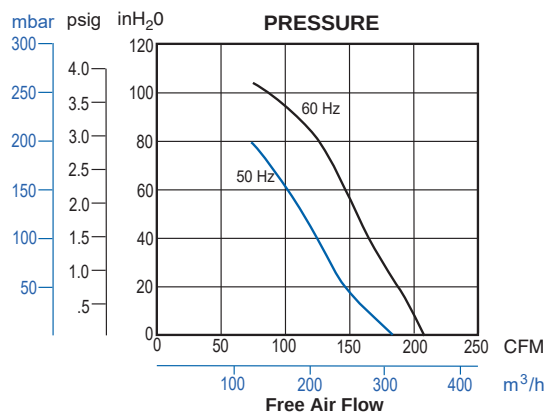


Product Performance

Models R6135J-10, R6335A-2, R6335B



Models R6150J-2, R6350A-2, R6350B-2





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PART NUMBER:

LTD150

REV.

H

MODEL NUMBER	MOTOR SPECIFICATIONS	RPM	MAX VAC		MAX PRESS		HP	kW	NET WT.	
			"H ₂ O	mbar	"H ₂ O	mbar			lbs.	kg
R6335A-2	190-220/380-415-50-3	2850	65	162	74	199	2.5	1.9	82	37.2
	208-230/460-60-3 ▲	3450	80	199	80	199	3.5	2.6		

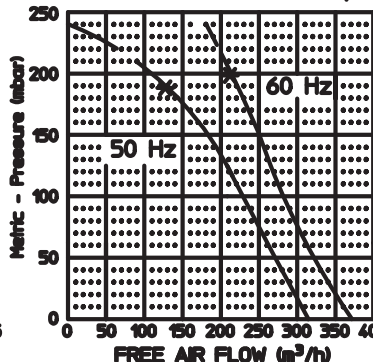
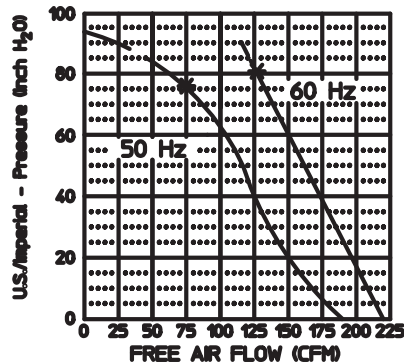
SOUND LEVEL 72/69 dB(A) MAX. @ 60/50 Hz
NORMAL AMBIENT -29°C TO 40°C
RELATIVE HUMIDITY 0% - 100% NON CONDENSING
ENVIRONMENT CLEAN DUST FREE

NOTES:

1. TECHNICAL DATA SUBJECT TO CHANGE WITHOUT NOTICE.
2. PVP PENDING.
3. WIRING DIAGRAM: SEE MOTOR.

▲ = REDUCE MAX. DUTY RATINGS BY 10% WHEN OPERATING FROM 207 TO 187 VOLTS, 60 Hz

Product Performance (Metric U.S. Imperial)



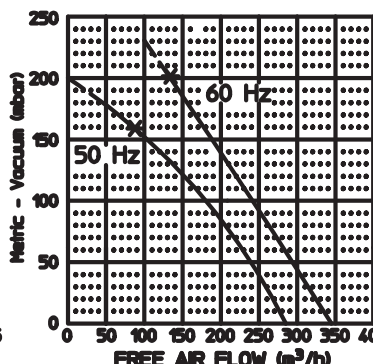
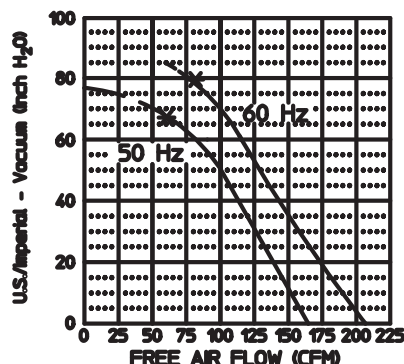
PERFORMANCE DATA

THE PERFORMANCE DATA SHOWN WAS DETERMINED UNDER THE FOLLOWING CONDITIONS:

LINE VOLTAGE @ 60 Hz, 230V OR 460V FOR 3 PHASE UNITS. 115V OR 230V FOR 1 PHASE UNITS.

LINE VOLTAGE @ 50 Hz, 220V FOR 3 PHASE OR 1 PHASE UNITS.

UNITS IN A TEMPERATURE STABLE CONDITION.



DELIVERY MEASUREMENTS MADE WITH OUTPUT PORT THROTTLED.

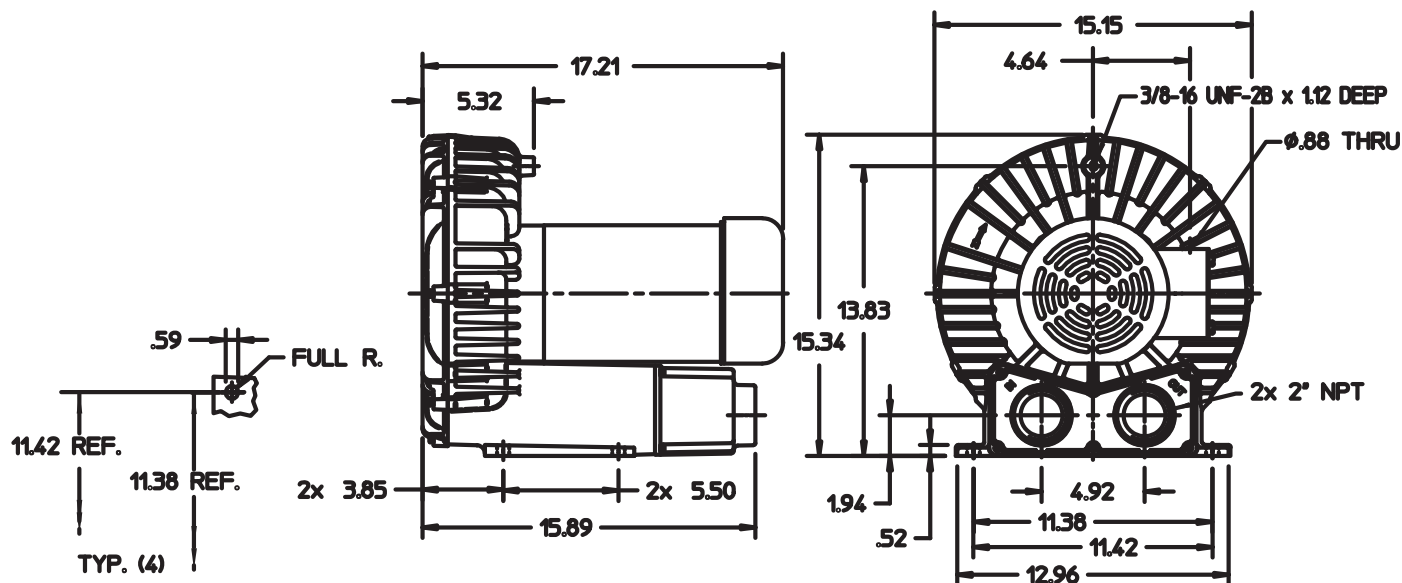
SUCTION MEASUREMENTS MADE WITH INPUT PORT THROTTLED.

TEST CONDITIONS: INLET AIR DENSITY @ 0.075 lbs. per cu. ft. [20°C (68°F), 29.92" Hg (14.7 PSIA)].

NORMAL PERFORMANCE VARIATIONS ON THE RISE/ANCE CURVE WITHIN ±10% OF SUPPLIED DATA CAN BE EXPECTED.

* DENOTES RECOMMENDED MAXIMUM DUTY
---- INTERMITTENT DUTY ONLY

Product Dimensions (inches)



AIR 175 Poly

TYPICAL FLOWS	5-100 scfm
MAXIMUM SUGGESTED FLOW	150 scfm
MAXIMUM OPERATING PRESSURE	<1 psig
MAXIMUM TEMPERATURE	140°F



4
D 22

STANDARD FEATURES

- ❖ 5
- ❖ D
- ❖ 0
- ❖ 2
- ❖

OPTIONAL FEATURES

- ❖
- ❖
- ❖
- ❖
- ❖
- ❖

APPENDIX C

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2401917
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	ANNUAL SSDS VERIFICATION
Project Number:	01101
Report Date:	01/23/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), 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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2401917-01	OA-2	AIR	155 CHANDLER ST	01/09/24 16:13	01/11/24
L2401917-02	IA-6	AIR	155 CHANDLER ST	01/09/24 16:21	01/11/24
L2401917-03	IA-6 DUPLICATE	AIR	155 CHANDLER ST	01/09/24 16:22	01/11/24
L2401917-04	IA-7	AIR	155 CHANDLER ST	01/09/24 16:16	01/11/24
L2401917-05	IA-8	AIR	155 CHANDLER ST	01/09/24 16:15	01/11/24
L2401917-06	IA-9	AIR	155 CHANDLER ST	01/09/24 16:16	01/11/24
L2401917-07	IA-10/IA-11	AIR	155 CHANDLER ST	01/09/24 16:18	01/11/24
L2401917-08	IA-12	AIR	155 CHANDLER ST	01/09/24 16:26	01/11/24

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 20, 2023. The canister certification data is provided as an addendum.

The WG1876453-3 LCS recovery for benzyl chloride (134%), associated with L2401917-01 through -08, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/23/24

AIR

Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01
 Client ID: OA-2
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 17:36
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--		1
Chloromethane	0.586	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	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.71	1.00	--	8.81	2.38	--		1
Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01

Client ID: OA-2

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.338	0.200	--	1.27	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01

Client ID: OA-2

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01

Client ID: OA-2

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/20/24 17:36

Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02
 Client ID: IA-6
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 18:13
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.500	0.200	--	2.47	0.989	--		1
Chloromethane	0.573	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	29.1	5.00	--	54.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.57	1.00	--	8.48	2.38	--		1
Trichlorofluoromethane	0.248	0.200	--	1.39	1.12	--		1
Isopropanol	3.83	0.500	--	9.41	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.518	0.500	--	1.53	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02

Client ID: IA-6

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.07	0.200	--	3.77	0.705	--		1
Benzene	0.339	0.200	--	1.08	0.639	--		1
Cyclohexane	0.542	0.200	--	1.87	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	0.789	0.200	--	3.69	0.934	--		1
Heptane	0.877	0.200	--	3.59	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.19	0.200	--	8.25	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.240	0.200	--	1.04	0.869	--		1
p/m-Xylene	0.859	0.400	--	3.73	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	0.310	0.200	--	1.35	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02

Client ID: IA-6

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02
 Client ID: IA-6
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 18:13
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.071	0.020	--	0.382	0.107	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

SAMPLE RESULTS

Lab ID: L2401917-03
 Client ID: IA-6 DUPLICATE
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 18:49
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.509	0.200	--	2.52	0.989	--		1
Chloromethane	0.642	0.200	--	1.33	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	34.5	5.00	--	65.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.84	1.00	--	13.9	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	3.87	0.500	--	9.51	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	0.539	0.500	--	1.59	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.585	0.500	--	1.73	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03

Client ID: IA-6 DUPLICATE

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.19	0.200	--	4.19	0.705	--		1
Benzene	0.365	0.200	--	1.17	0.639	--		1
Cyclohexane	0.632	0.200	--	2.18	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	0.858	0.200	--	4.01	0.934	--		1
Heptane	0.985	0.200	--	4.04	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.41	0.200	--	9.08	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.268	0.200	--	1.16	0.869	--		1
p/m-Xylene	0.946	0.400	--	4.11	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	0.352	0.200	--	1.53	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03
 Client ID: IA-6 DUPLICATE
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03
 Client ID: IA-6 DUPLICATE
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 18:49
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.074	0.020	--	0.398	0.107	--		1
Tetrachloroethene	0.043	0.020	--	0.292	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04
 Client ID: IA-7
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 19:25
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--		1
Chloromethane	0.610	0.200	--	1.26	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	39.1	5.00	--	73.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.79	1.00	--	11.4	2.38	--		1
Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--		1
Isopropanol	5.12	0.500	--	12.6	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	0.553	0.500	--	1.63	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.987	0.500	--	2.91	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04

Client ID: IA-7

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.481	0.200	--	1.81	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04

Client ID: IA-7

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04
 Client ID: IA-7
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 19:25
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.139	0.020	--	0.747	0.107	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05
 Client ID: IA-8
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 20:02
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.525	0.200	--	2.60	0.989	--		1
Chloromethane	0.582	0.200	--	1.20	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	43.8	5.00	--	82.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.52	1.00	--	8.36	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	6.02	0.500	--	14.8	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	0.614	0.500	--	1.81	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.10	0.500	--	3.24	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05

Client ID: IA-8

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.348	0.200	--	1.31	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05

Client ID: IA-8

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05
 Client ID: IA-8
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 20:02
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.169	0.020	--	0.908	0.107	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	88		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06
 Client ID: IA-9
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 21:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.534	0.200	--	2.64	0.989	--		1
Chloromethane	0.572	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	51.1	5.00	--	96.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.29	1.00	--	7.82	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	5.44	0.500	--	13.4	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	0.349	0.200	--	1.09	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.879	0.500	--	2.59	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06

Client ID: IA-9

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.322	0.200	--	1.21	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06

Client ID: IA-9

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06
 Client ID: IA-9
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 21:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.035	0.020	--	0.139	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.154	0.020	--	0.828	0.107	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

SAMPLE RESULTS

Lab ID: L2401917-07
 Client ID: IA-10/IA-11
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 21:51
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.542	0.200	--	2.68	0.989	--		1
Chloromethane	0.583	0.200	--	1.20	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	38.7	5.00	--	72.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.02	1.00	--	9.55	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	6.39	0.500	--	15.7	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	0.679	0.500	--	2.00	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.29	0.500	--	3.80	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07

Client ID: IA-10/IA-11

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.253	0.200	--	0.892	0.705	--		1
Benzene	0.209	0.200	--	0.668	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	0.511	0.200	--	1.93	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07

Date Collected: 01/09/24 16:18

Client ID: IA-10/IA-11

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07
 Client ID: IA-10/IA-11
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 21:51
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.091	0.020	--	0.572	0.126	--		1
Trichloroethene	0.213	0.020	--	1.14	0.107	--		1
Tetrachloroethene	0.109	0.020	--	0.739	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08
 Client ID: IA-12
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 22:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.533	0.200	--	2.64	0.989	--		1
Chloromethane	0.621	0.200	--	1.28	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	46.0	5.00	--	86.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.52	1.00	--	15.5	2.38	--		1
Trichlorofluoromethane	0.256	0.200	--	1.44	1.12	--		1
Isopropanol	16.1	0.500	--	39.6	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	1.04	0.500	--	3.07	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.64	0.500	--	4.84	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08

Client ID: IA-12

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.351	0.200	--	1.44	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	0.375	0.200	--	1.41	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08

Date Collected: 01/09/24 16:26

Client ID: IA-12

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08
 Client ID: IA-12
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 22:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Trichloroethene	0.290	0.020	--	1.56	0.107	--		1
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/20/24 17:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-08 Batch: WG1876455-4								
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: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Number: L2401917

Report Date: 01/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3								
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	100		-		70-130	-		
Freon-114	114		-		70-130	-		
Vinyl chloride	106		-		70-130	-		
1,3-Butadiene	120		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	109		-		70-130	-		
Ethanol	118		-		40-160	-		
Vinyl bromide	106		-		70-130	-		
Acetone	102		-		40-160	-		
Trichlorofluoromethane	100		-		70-130	-		
Isopropanol	96		-		40-160	-		
1,1-Dichloroethene	110		-		70-130	-		
Tertiary butyl Alcohol	113		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	116		-		70-130	-		
Carbon disulfide	105		-		70-130	-		
Freon-113	103		-		70-130	-		
trans-1,2-Dichloroethene	114		-		70-130	-		
1,1-Dichloroethane	104		-		70-130	-		
Methyl tert butyl ether	114		-		70-130	-		
2-Butanone	106		-		70-130	-		
cis-1,2-Dichloroethene	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Number: L2401917

Report Date: 01/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3								
Ethyl Acetate	121		-		70-130	-		
Chloroform	107		-		70-130	-		
Tetrahydrofuran	109		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	122		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Benzene	105		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	124		-		70-130	-		
1,2-Dichloropropane	106		-		70-130	-		
Bromodichloromethane	120		-		70-130	-		
1,4-Dioxane	125		-		70-130	-		
Trichloroethene	108		-		70-130	-		
2,2,4-Trimethylpentane	122		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	111		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	111		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	105		-		70-130	-		
2-Hexanone	114		-		70-130	-		
Dibromochloromethane	117		-		70-130	-		
1,2-Dibromoethane	103		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Number: L2401917

Report Date: 01/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3								
Tetrachloroethene	101		-		70-130	-		
Chlorobenzene	105		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	106		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	109		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	108		-		70-130	-		
4-Ethyltoluene	117		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Benzyl chloride	134	Q	-		70-130	-		
1,3-Dichlorobenzene	106		-		70-130	-		
1,4-Dichlorobenzene	110		-		70-130	-		
1,2-Dichlorobenzene	105		-		70-130	-		
1,2,4-Trichlorobenzene	116		-		70-130	-		
Hexachlorobutadiene	107		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Number: L2401917

Report Date: 01/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876455-3								
Vinyl chloride	108		-		70-130	-		25
1,1-Dichloroethene	109		-		70-130	-		25
cis-1,2-Dichloroethene	111		-		70-130	-		25
1,1,1-Trichloroethane	98		-		70-130	-		25
Carbon tetrachloride	99		-		70-130	-		25
Trichloroethene	107		-		70-130	-		25
Tetrachloroethene	100		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Number: L2401917

Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
Dichlorodifluoromethane	0.525	0.523	ppbV	0		25
Chloromethane	0.582	0.597	ppbV	3		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	43.8	42.2	ppbV	4		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	3.52	3.50	ppbV	1		25
Trichlorofluoromethane	0.254	0.260	ppbV	2		25
Isopropanol	6.02	5.81	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.614	0.608	ppbV	1		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2401917

Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	1.10	1.09	ppbV	1		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.348	0.359	ppbV	3		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Project Name: ANNUAL SSDS VERIFICATION

Project Number: 01101

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2401917

Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876455-5 QC Sample: L2401917-05 Client ID: IA-8						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.082	0.092	ppbV	11		25
Trichloroethene	0.169	0.177	ppbV	5		25
Tetrachloroethene	0.040	0.040	ppbV	0		25

Project Name: ANNUAL SSDS VERIFICATION

Serial_No:01232416:33
Lab Number: L2401917

Project Number: 01101

Report Date: 01/23/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2401917-01	OA-2	02215	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	4.7	4
L2401917-01	OA-2	3180	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-6.2	-	-	-	-
L2401917-02	IA-6	01930	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.0	11
L2401917-02	IA-6	121	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-2.0	-	-	-	-
L2401917-03	IA-6 DUPLICATE	01515	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.4	18
L2401917-03	IA-6 DUPLICATE	3239	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-1.3	-	-	-	-
L2401917-04	IA-7	01073	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	3.8	17
L2401917-04	IA-7	135	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-3.3	-	-	-	-
L2401917-05	IA-8	02152	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.6	22
L2401917-05	IA-8	2081	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-3.7	-	-	-	-
L2401917-06	IA-9	01892	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	4.9	9
L2401917-06	IA-9	2767	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.0	-	-	-	-
L2401917-07	IA-10/IA-11	02062	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	5.0	11
L2401917-07	IA-10/IA-11	3208	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.3	-	-	-	-
L2401917-08	IA-12	01633	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	5.2	14

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Serial_No:01232416:33
Lab Number: L2401917
Report Date: 01/23/24

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
L2401917-08	IA-12	2433	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.8	-	-	-	-



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/19/23 04:47
Analyst: BJB

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2374537**Project Number:** CANISTER QC BAT**Report Date:** 01/23/24**Air Canister Certification Results**

Lab ID: L2374537-01

Date Collected: 12/15/23 18:00

Client ID: CAN 3006 SHELF 14

Date Received: 12/18/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	91		60-140



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/19/23 04:47
Analyst: BJB

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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**Lab Number:** L2374537**Project Number:** CANISTER QC BAT**Report Date:** 01/23/24**Air Canister Certification Results**

Lab ID: L2374537-01

Date Collected: 12/15/23 18:00

Client ID: CAN 3006 SHELF 14

Date Received: 12/18/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**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(*)
L2401917-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2401917-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2401917-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2401917-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2401917-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2401917-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2401917-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2401917-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

Published Date: 6/16/2023 4:52:28 PM

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Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 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 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 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).**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



CHAIN OF CUSTODY

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

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

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: Annual SSPS Verification

Project Location: 155 Chandler St

Project #: 01101

Project Manager: Mark Hanna + Mary Szustak

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Date Rec'd in Lab: 1/12/24

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)

labresults@envadvantage.com

ALPHA Job #: L2401917

Billing Information

☒ Same as Client info PO #: 01101

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

TO-15
TO-15 SIM
APH
Fixed Gases
Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15 TO-15 SIM APH Fixed Gases Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum								
01917-01	0A-2	1/9/24	8:43	4:13	-29.38	-5.78	AA	CS	2.7L	3180	02215	X		Ambient Air
02	IA-6	1/9/24	8:19	4:21	-29.43	-1.85	AA	CS	2.7L	121	01930	X		with PID 0.0ppm
03	IA-6 duplicate	1/9/24	8:18	4:22	-29.91	-1.06	AA	CS	2.7L	3239	01515	X		for all samples
04	IA-7	1/9/24	8:22	4:16	-29.50	-2.00	AA	CS	2.7L	135	01073	X		
05	IA-8	1/9/24	8:24	4:15	-29.33	-2.46	AA	CS	2.7L	2081	02152	X		
06	IA-9	1/9/24	8:27	4:16	-29.42	-2.27	AA	CS	2.7L	2767	01892	X		
07	IA-10/IA-11	1/9/24	8:34	4:18	-29.49	-2.92	AA	CS	2.7L	3208	02062	X		
08	IA-12	1/9/24	8:12	4:26	-29.62	-3.70	AA	CS	2.7L	2433	01633	X		

*SAMPLE MATRIX CODES

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

Container Type: Summa

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

Relinquished By:

Date/Time

Received By:

Date/Time:

Calli Smyke
PA
1/11/24 1455

1/11/24 1600

PA
1/11/24 1505
AAL
1/12/24 0510

1/12/24 0040

AAL

1/12/24 0645

1/12/24 0645



ANALYTICAL REPORT

Lab Number:	L2407343
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	02/23/24

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), 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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2407343-01	PRE	SOIL_VAPOR	155 CHANDLER ST.	02/08/24 10:30	02/08/24
L2407343-02	POST	SOIL_VAPOR	155 CHANDLER ST.	02/08/24 10:30	02/08/24

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Case Narrative (continued)

Volatile Organics in Air

L2407343-01 and -02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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: 02/23/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 02/23/24 06:38
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.531	0.200	--	2.63	0.989	--		1
Chloromethane	0.272	0.200	--	0.562	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	11.4	5.00	--	21.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.48	1.00	--	13.0	2.38	--		1
Trichlorofluoromethane	0.353	0.200	--	1.98	1.12	--		1
Isopropanol	3.93	0.500	--	9.66	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	1.21	0.500	--	4.20	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.214	0.200	--	0.666	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	1.85	0.500	--	5.46	1.47	--		1
cis-1,2-Dichloroethene	1.09	0.200	--	4.32	0.793	--		1
Ethyl Acetate	7.02	0.500	--	25.3	1.80	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30

Date Received: 02/08/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	1.61	0.200	--	7.86	0.977	--		1
Tetrahydrofuran	2.35	0.500	--	6.93	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.559	0.200	--	1.97	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.24	0.200	--	3.96	0.639	--		1
Carbon tetrachloride	3.18	0.200	--	20.0	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	69.2	0.200	--	372	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	0.733	0.200	--	2.76	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	0.570	0.200	--	3.87	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.498	0.400	--	2.16	1.74	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

SAMPLE RESULTS

Lab ID: L2407343-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	0.209	0.200	--	0.908	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.364	0.200	--	1.79	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 02/23/24 07:17
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.507	0.200	--	2.51	0.989	--		1
Chloromethane	0.270	0.200	--	0.558	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	13.9	5.00	--	26.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.67	1.00	--	13.5	2.38	--		1
Trichlorofluoromethane	0.318	0.200	--	1.79	1.12	--		1
Isopropanol	8.67	0.500	--	21.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.402	0.200	--	1.25	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	4.50	0.500	--	16.2	1.80	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-02

Client ID: POST

Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30

Date Received: 02/08/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	23.0	0.500	--	67.8	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.02	0.200	--	3.59	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.277	0.200	--	0.885	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	0.607	0.200	--	2.29	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	0.750	0.400	--	3.26	1.74	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	0.273	0.200	--	1.19	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.335	0.200	--	1.65	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2407343

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3								
Dichlorodifluoromethane	102		-		70-130	-		
Chloromethane	81		-		70-130	-		
Freon-114	100		-		70-130	-		
Vinyl chloride	94		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	95		-		40-160	-		
Vinyl bromide	94		-		70-130	-		
Acetone	92		-		40-160	-		
Trichlorofluoromethane	113		-		70-130	-		
Isopropanol	76		-		40-160	-		
1,1-Dichloroethene	104		-		70-130	-		
Tertiary butyl Alcohol	85		-		70-130	-		
Methylene chloride	87		-		70-130	-		
3-Chloropropene	98		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	102		-		70-130	-		
trans-1,2-Dichloroethene	99		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	87		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2407343

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3								
Ethyl Acetate	103		-		70-130	-		
Chloroform	106		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	108		-		70-130	-		
n-Hexane	99		-		70-130	-		
1,1,1-Trichloroethane	103		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	114		-		70-130	-		
Cyclohexane	98		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	114		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	96		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	88		-		70-130	-		
4-Methyl-2-pentanone	95		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	89		-		70-130	-		
Dibromochloromethane	120		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2407343

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3								
Tetrachloroethene	92		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	123		-		70-130	-		
Styrene	88		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	96		-		70-130	-		
4-Ethyltoluene	96		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
1,2,4-Trimethylbenzene	92		-		70-130	-		
Benzyl chloride	93		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	98		-		70-130	-		
1,2-Dichlorobenzene	95		-		70-130	-		
1,2,4-Trichlorobenzene	79		-		70-130	-		
Hexachlorobutadiene	94		-		70-130	-		

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2407343-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

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 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

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

EPA 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 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 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).

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.



ANALYTICAL REPORT

Lab Number:	L2413547
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	03/29/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #A24920).

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



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2413547-01	PRE	SOIL_VAPOR	155 CHANDLER ST	03/12/24 11:46	03/13/24
L2413547-02	POST	SOIL_VAPOR	155 CHANDLER ST	03/12/24 11:46	03/13/24

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Case Narrative (continued)

Volatile Organics in Air

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/29/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46
 Date Received: 03/13/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/29/24 02:20
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.454	0.200	--	2.24	0.989	--		1
Chloromethane	0.244	0.200	--	0.504	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	21.1	5.00	--	39.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.53	1.00	--	8.39	2.38	--		1
Trichlorofluoromethane	0.286	0.200	--	1.61	1.12	--		1
Isopropanol	1.76	0.500	--	4.33	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	0.235	0.200	--	0.732	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	0.701	0.500	--	2.07	1.47	--		1
cis-1,2-Dichloroethene	0.925	0.200	--	3.67	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-01

Client ID: PRE

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	10.8	0.500	--	38.9	1.80	--		1
Chloroform	1.28	0.200	--	6.25	0.977	--		1
Tetrahydrofuran	1.42	0.500	--	4.19	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	0.311	0.200	--	0.994	0.639	--		1
Carbon tetrachloride	2.55	0.200	--	16.0	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	54.7	0.200	--	294	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	1.10	0.200	--	4.15	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	0.295	0.200	--	1.28	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

SAMPLE RESULTS

Lab ID: L2413547-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46
 Date Received: 03/13/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.20	0.400	--	5.21	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	0.339	0.200	--	1.47	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.421	0.200	--	2.07	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	98		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46
 Date Received: 03/13/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/29/24 05:02
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--		1
Chloromethane	0.321	0.200	--	0.663	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	35.2	5.00	--	66.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.83	1.00	--	13.8	2.38	--		1
Trichlorofluoromethane	0.284	0.200	--	1.60	1.12	--		1
Isopropanol	2.91	0.500	--	7.15	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	0.935	0.200	--	3.71	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02

Client ID: POST

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	9.57	0.500	--	34.5	1.80	--		1
Chloroform	0.981	0.200	--	4.79	0.977	--		1
Tetrahydrofuran	16.6	0.500	--	49.0	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	1.56	0.200	--	4.98	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	0.283	0.200	--	1.16	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.12	0.200	--	7.99	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.610	0.200	--	2.65	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02

Date Collected: 03/12/24 11:46

Client ID: POST

Date Received: 03/13/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.51	0.400	--	10.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.656	0.200	--	2.85	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.337	0.200	--	1.66	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	95		60-140
chlorobenzene-d5	95		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2413547

Report Date: 03/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3								
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	100		-		70-130	-		
Vinyl chloride	90		-		70-130	-		
1,3-Butadiene	97		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	91		-		70-130	-		
Ethanol	90		-		40-160	-		
Vinyl bromide	88		-		70-130	-		
Acetone	90		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	84		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	89		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	97		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	91		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2413547

Report Date: 03/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3								
Ethyl Acetate	91		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	93		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
n-Hexane	91		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Benzene	91		-		70-130	-		
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	92		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	89		-		70-130	-		
2,2,4-Trimethylpentane	95		-		70-130	-		
Heptane	98		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	99		-		70-130	-		
trans-1,3-Dichloropropene	99		-		70-130	-		
1,1,2-Trichloroethane	91		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	101		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2413547

Report Date: 03/29/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3								
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
Bromoform	99		-		70-130	-		
Styrene	97		-		70-130	-		
1,1,2,2-Tetrachloroethane	96		-		70-130	-		
o-Xylene	96		-		70-130	-		
4-Ethyltoluene	95		-		70-130	-		
1,3,5-Trimethylbenzene	101		-		70-130	-		
1,2,4-Trimethylbenzene	98		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	94		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
1,2,4-Trichlorobenzene	83		-		70-130	-		
Hexachlorobutadiene	86		-		70-130	-		

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2413547-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 20

Department: **Quality Assurance**

Published Date: 6/16/2023 4:52:28 PM

Title: **Certificate/Approval Program Summary**

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Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 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 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 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).**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.

W/g AAL 3/14/24 0638 ~~3/14/24 0638~~



ANALYTICAL REPORT

Lab Number:	L2419951
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	04/26/24

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320 Forbes Boulevard, Mansfield, MA 02048-1806
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Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2419951-01	PRE	SOIL_VAPOR	155 CHANDLER ST.	04/11/24 12:15	04/11/24
L2419951-02	POST	SOIL_VAPOR	155 CHANDLER ST.	04/11/24 12:16	04/11/24

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
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Case Narrative

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

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

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

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

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

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

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Case Narrative (continued)

Volatile Organics in Air

L2419951-01,-02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

WG1913405-3: The quality control sample LCS, associated with WG1913405-3, did not meet the acceptance criteria for the full scan analysis. The associated compounds for those samples were reported from the SIM analysis.

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:

 Jennifer Jerome

Title: Technical Director/Representative

Date: 04/26/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/26/24 05:13
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.462	0.200	--	2.28	0.989	--		1
Chloromethane	0.292	0.200	--	0.603	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
Ethanol	32.4	5.00	--	61.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.8	1.00	--	58.9	2.38	--		1
Trichlorofluoromethane	0.301	0.200	--	1.69	1.12	--		1
Isopropanol	94.5	0.500	--	232	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	0.343	0.200	--	1.07	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.222	0.200	--	0.880	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	0.779	0.500	--	2.30	1.47	--		1
cis-1,2-Dichloroethene	1.46	0.200	--	5.79	0.793	--		1
Ethyl Acetate	11.3	0.500	--	40.7	1.80	--		1
Chloroform	1.77	0.200	--	8.64	0.977	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15

Date Received: 04/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	1.61	0.500	--	4.75	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	0.385	0.200	--	1.23	0.639	--		1
Carbon tetrachloride	3.62	0.200	--	22.8	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	56.3	0.200	--	303	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	1.15	0.200	--	4.33	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	3.19	0.200	--	21.6	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.48	0.200	--	10.8	0.869	--		1
p/m-Xylene	11.7	0.400	--	50.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	4.06	0.200	--	17.6	0.869	--		1
4-Ethyltoluene	0.239	0.200	--	1.17	0.983	--		1
1,3,5-Trimethylbenzene	0.304	0.200	--	1.49	0.983	--		1
1,2,4-Trimethylbenzene	1.01	0.200	--	4.97	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15

Date Received: 04/11/24

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/26/24 05:13

Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/26/24 05:52
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.513	0.200	--	2.54	0.989	--		1
Chloromethane	0.306	0.200	--	0.632	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
Ethanol	51.0	5.00	--	96.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.92	1.00	--	23.6	2.38	--		1
Trichlorofluoromethane	0.361	0.200	--	2.03	1.12	--		1
Isopropanol	16.3	0.500	--	40.1	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	0.785	0.500	--	2.73	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.321	0.200	--	1.00	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	1.39	0.200	--	5.51	0.793	--		1
Ethyl Acetate	10.6	0.500	--	38.2	1.80	--		1
Chloroform	1.78	0.200	--	8.69	0.977	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	8.36	0.500	--	24.7	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	0.445	0.200	--	1.42	0.639	--		1
Carbon tetrachloride	0.218	0.200	--	1.37	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	1.89	0.200	--	7.12	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	5.18	0.200	--	22.5	0.869	--		1
p/m-Xylene	23.9	0.400	--	104	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	8.03	0.200	--	34.9	0.869	--		1
4-Ethyltoluene	0.356	0.200	--	1.75	0.983	--		1
1,3,5-Trimethylbenzene	0.378	0.200	--	1.86	0.983	--		1
1,2,4-Trimethylbenzene	1.22	0.200	--	6.00	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/26/24 05:52
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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: 155 CHANDLER PRE/POST CARBON

Lab Number: L2419951

Project Number: 01101

Report Date: 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/25/24 13:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1913406-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2419951

Report Date: 04/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3								
Dichlorodifluoromethane	79		-		70-130	-		
Chloromethane	78		-		70-130	-		
Freon-114	90		-		70-130	-		
Vinyl chloride	70		-		70-130	-		
1,3-Butadiene	88		-		70-130	-		
Bromomethane	73		-		70-130	-		
Chloroethane	68	Q	-		70-130	-		
Ethanol	76		-		40-160	-		
Vinyl bromide	79		-		70-130	-		
Acetone	78		-		40-160	-		
Trichlorofluoromethane	78		-		70-130	-		
Isopropanol	79		-		40-160	-		
1,1-Dichloroethene	80		-		70-130	-		
Tertiary butyl Alcohol	74		-		70-130	-		
Methylene chloride	83		-		70-130	-		
3-Chloropropene	102		-		70-130	-		
Carbon disulfide	97		-		70-130	-		
Freon-113	88		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	81		-		70-130	-		
Methyl tert butyl ether	99		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	79		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2419951

Report Date: 04/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3								
Ethyl Acetate	87		-		70-130	-		
Chloroform	85		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
1,2-Dichloroethane	79		-		70-130	-		
n-Hexane	81		-		70-130	-		
1,1,1-Trichloroethane	86		-		70-130	-		
Benzene	81		-		70-130	-		
Carbon tetrachloride	95		-		70-130	-		
Cyclohexane	82		-		70-130	-		
1,2-Dichloropropane	81		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	86		-		70-130	-		
Trichloroethene	82		-		70-130	-		
2,2,4-Trimethylpentane	82		-		70-130	-		
Heptane	105		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	96		-		70-130	-		
1,1,2-Trichloroethane	85		-		70-130	-		
Toluene	78		-		70-130	-		
2-Hexanone	115		-		70-130	-		
Dibromochloromethane	109		-		70-130	-		
1,2-Dibromoethane	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2419951

Report Date: 04/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3								
Tetrachloroethene	91		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	82		-		70-130	-		
p/m-Xylene	86		-		70-130	-		
Bromoform	112		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	91		-		70-130	-		
o-Xylene	88		-		70-130	-		
4-Ethyltoluene	104		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	98		-		70-130	-		
Benzyl chloride	90		-		70-130	-		
1,3-Dichlorobenzene	97		-		70-130	-		
1,4-Dichlorobenzene	95		-		70-130	-		
1,2-Dichlorobenzene	94		-		70-130	-		
1,2,4-Trichlorobenzene	80		-		70-130	-		
Naphthalene	76		-		70-130	-		
Hexachlorobutadiene	80		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON

Project Number: 01101

Lab Number: L2419951

Report Date: 04/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913406-3								
Vinyl chloride	71		-		70-130	-		25
Chloroethane	73		-		70-130	-		25

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2419951-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2419951-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2419951-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2419951-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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.





ANALYTICAL REPORT

Lab Number:	L2438431
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	07/16/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2438431-01	PRE CARBON	SOIL_VAPOR	155 CHANDLER ST.	07/09/24 09:10	07/09/24
L2438431-02	POST CARBON	SOIL_VAPOR	155 CHANDLER ST.	07/09/24 09:00	07/09/24

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Case Narrative (continued)

Volatile Organics in Air

L2438431-01 and -02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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:

 Jennifer Jerome

Title: Technical Director/Representative

Date: 07/16/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/13/24 01:02
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.423	0.200	--	2.09	0.989	--		1
Chloromethane	0.231	0.200	--	0.477	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	26.9	5.00	--	50.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.2	1.00	--	50.4	2.38	--		1
Trichlorofluoromethane	0.312	0.200	--	1.75	1.12	--		1
Isopropanol	63.5	0.500	--	156	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.738	0.500	--	2.24	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.971	0.200	--	3.02	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.299	0.200	--	1.19	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	0.662	0.500	--	1.95	1.47	--		1
cis-1,2-Dichloroethene	0.897	0.200	--	3.56	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.81	0.200	--	8.84	0.977	--		1
Tetrahydrofuran	0.659	0.500	--	1.94	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.642	0.200	--	2.26	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.419	0.200	--	1.34	0.639	--		1
Carbon tetrachloride	3.07	0.200	--	19.3	1.26	--		1
Cyclohexane	0.216	0.200	--	0.743	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	52.8	0.200	--	284	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	1.48	0.500	--	6.07	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	1.65	0.200	--	6.22	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.420	0.200	--	2.85	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.394	0.200	--	1.71	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.98	0.400	--	8.60	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	0.706	0.200	--	3.07	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.277	0.200	--	1.36	0.983	--		1
1,2,4-Trimethylbenzene	1.10	0.200	--	5.41	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	130		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/13/24 00:31
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.471	0.200	--	2.33	0.989	--		1
Chloromethane	0.253	0.200	--	0.522	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	40.4	5.00	--	76.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.8	1.00	--	42.3	2.38	--		1
Trichlorofluoromethane	0.300	0.200	--	1.69	1.12	--		1
Isopropanol	100	0.500	--	246	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.25	0.200	--	3.89	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.246	0.200	--	0.975	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.577	0.500	--	1.70	1.47	--		1
cis-1,2-Dichloroethene	1.07	0.200	--	4.24	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	9.78	0.500	--	35.2	1.80	--		1
Chloroform	1.79	0.200	--	8.74	0.977	--		1
Tetrahydrofuran	0.893	0.500	--	2.63	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.77	0.200	--	9.76	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.09	0.200	--	6.68	0.639	--		1
Carbon tetrachloride	4.52	0.200	--	28.4	1.26	--		1
Cyclohexane	0.386	0.200	--	1.33	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	71.3	0.200	--	383	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.211	0.200	--	0.865	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.17	0.200	--	11.9	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.633	0.200	--	2.75	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.10	0.400	--	13.5	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	1.04	0.200	--	4.52	0.869	--		1
4-Ethyltoluene	0.278	0.200	--	1.37	0.983	--		1
1,3,5-Trimethylbenzene	0.319	0.200	--	1.57	0.983	--		1
1,2,4-Trimethylbenzene	1.25	0.200	--	6.15	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	106		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	130		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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: 155 CHANDLER PRE/POST CARBON

Lab Number: L2438431

Project Number: 01101

Report Date: 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3														
Dichlorodifluoromethane	89			-			70-130		-					
Chloromethane	106			-			70-130		-					
Freon-114	120			-			70-130		-					
Vinyl chloride	107			-			70-130		-					
1,3-Butadiene	125			-			70-130		-					
Bromomethane	105			-			70-130		-					
Chloroethane	104			-			70-130		-					
Ethanol	94			-			40-160		-					
Vinyl bromide	93			-			70-130		-					
Acetone	81			-			40-160		-					
Trichlorofluoromethane	74			-			70-130		-					
Isopropanol	76			-			40-160		-					
1,1-Dichloroethene	100			-			70-130		-					
Tertiary butyl Alcohol	104			-			70-130		-					
Methylene chloride	111			-			70-130		-					
3-Chloropropene	110			-			70-130		-					
Carbon disulfide	118			-			70-130		-					
Freon-113	109			-			70-130		-					
trans-1,2-Dichloroethene	103			-			70-130		-					
1,1-Dichloroethane	98			-			70-130		-					
Methyl tert butyl ether	104			-			70-130		-					
2-Butanone	93			-			70-130		-					
cis-1,2-Dichloroethene	101			-			70-130		-					



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3														
Ethyl Acetate	122			-			70-130		-			-		
Chloroform	102			-			70-130		-			-		
Tetrahydrofuran	97			-			70-130		-			-		
1,2-Dichloroethane	71			-			70-130		-			-		
n-Hexane	118			-			70-130		-			-		
1,1,1-Trichloroethane	76			-			70-130		-			-		
Benzene	110			-			70-130		-			-		
Carbon tetrachloride	82			-			70-130		-			-		
Cyclohexane	118			-			70-130		-			-		
1,2-Dichloropropane	100			-			70-130		-			-		
Bromodichloromethane	101			-			70-130		-			-		
1,4-Dioxane	110			-			70-130		-			-		
Trichloroethene	104			-			70-130		-			-		
2,2,4-Trimethylpentane	120			-			70-130		-			-		
Heptane	97			-			70-130		-			-		
cis-1,3-Dichloropropene	110			-			70-130		-			-		
4-Methyl-2-pentanone	95			-			70-130		-			-		
trans-1,3-Dichloropropene	104			-			70-130		-			-		
1,1,2-Trichloroethane	103			-			70-130		-			-		
Toluene	102			-			70-130		-			-		
2-Hexanone	104			-			70-130		-			-		
Dibromochloromethane	114			-			70-130		-			-		
1,2-Dibromoethane	120			-			70-130		-			-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3								
Tetrachloroethene	115		-		70-130			-
Chlorobenzene	123		-		70-130			-
Ethylbenzene	107		-		70-130			-
p/m-Xylene	108		-		70-130			-
Bromoform	118		-		70-130			-
Styrene	122		-		70-130			-
1,1,2,2-Tetrachloroethane	130		-		70-130			-
o-Xylene	110		-		70-130			-
4-Ethyltoluene	117		-		70-130			-
1,3,5-Trimethylbenzene	121		-		70-130			-
1,2,4-Trimethylbenzene	118		-		70-130			-
Benzyl chloride	126		-		70-130			-
1,3-Dichlorobenzene	128		-		70-130			-
1,4-Dichlorobenzene	124		-		70-130			-
1,2-Dichlorobenzene	122		-		70-130			-
1,2,4-Trichlorobenzene	130		-		70-130			-
Naphthalene	119		-		70-130			-
Hexachlorobutadiene	118		-		70-130			-



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

CoolerNA

Custody SealAbsent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2438431-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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.



Alpha Analytical, Inc.

ID# 17873

Company-wide

R# 2

Quality Assurance

04/2024

Certificate/Approval Program Summary

Certification Information

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

Westborough Facility

EPA 624.1: /

EPA 625.1:

EPA 8260D: 245 4 M d 245 4

EPA 8270E: 4 D dr M D 4 D dr

SM4500 2 M 2

Mansfield Facility

SM 2540D:

EPA TO-15: 244 2 244 2 M

M 2 2 dr d 245 M

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: 050

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

Westborough Facility:

Drinking Water

EPA 300.0 353.2 SM4500NO3-F SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: M EPA 504.1: D D

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: EPA 350.1

LACHAT 10-107-06-1-B EPA 351.1, SM4500NO3-F, EPA 353.2, 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

EPA 608.3 dr d D dr DDD DD DD d

d dr d d r d

EPA 625.1 d /

Microbiology SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: M EPA 200.8: M EPA 245.1

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: M M M r

EPA 200.8: , M

EPA 245.1

SM2340B

r d r M

Project Information
Project Name: 155 Chandler Pre/Post Carbon
Project Location: 155 Chandler St.
Project #: 01101
Project Manager: Mark Hanna + Mary Szustak
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 # 01101

Regulatory Requirements/Report Limits
State/Fed Program Res / Comm

ANALYSIS
TO-15 TO-15 SIM APH Fixed Gases Sulfides & Mercaptans by TO-15
Sample Comments (i.e. PID)

Project Information
Project Name: 155 Chandler Pre/Post Carbon
Project Location: 155 Chandler St.
Project #: 01101
Project Manager: Mark Hanna + Mary Szustak
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Billing Information
Same as Client Info PO # 01101



ANALYTICAL REPORT

Lab Number:	L2421711
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER SOIL CHARACTER
Project Number:	01101
Report Date:	04/28/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2421711-01	BACEMENT EW	SOIL	BUFFALO, NY	04/17/24 12:00	04/19/24



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

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: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature:  Kelly O'Neill

Title: Technical Director/Representative

Date: 04/28/24

ORGANICS

VOLATILES

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

SAMPLE RESULTS

Lab ID: L2421711-01
Client ID: BACEMENT EW
Sample Location: BUFFALO, NY

Date Collected: 04/17/24 12:00
Date Received: 04/19/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 16:17
Analyst: MKS
Percent Solids: 85%
TCLP/SPLP Ext. Date: 04/24/24 09:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
dibromofluoromethane	117		70-130

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 04/25/24 07:58
 Analyst: MKS
 TCLP/SPLP Extraction Date: 04/24/24 09:17

Extraction Date: 04/24/24 09:17

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1913286-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
dibromofluoromethane	114		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1913286-3 WG1913286-4								
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	98		100		70-130	2		20
Benzene	110		110		70-130	0		25
Vinyl chloride	110		99		55-140	11		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	110		110		70-130	0		25
1,4-Dichlorobenzene	110		100		70-130	10		20
2-Butanone	95		84		63-138	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		93		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	87		90		70-130
dibromofluoromethane	102		105		70-130



PCBS

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

SAMPLE RESULTS

Lab ID: L2421711-01
Client ID: BACEMENT EW
Sample Location: BUFFALO, NY

Date Collected: 04/17/24 12:00
Date Received: 04/19/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/23/24 22:17
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/23/24 08:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.3	5.18	1	A
Aroclor 1221	ND		ug/kg	58.3	5.84	1	A
Aroclor 1232	ND		ug/kg	58.3	12.4	1	A
Aroclor 1242	ND		ug/kg	58.3	7.86	1	A
Aroclor 1248	ND		ug/kg	58.3	8.75	1	A
Aroclor 1254	ND		ug/kg	58.3	6.38	1	A
Aroclor 1260	ND		ug/kg	58.3	10.8	1	A
Aroclor 1262	ND		ug/kg	58.3	7.41	1	A
Aroclor 1268	ND		ug/kg	58.3	6.04	1	A
PCBs, Total	ND		ug/kg	58.3	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 04/24/24 00:37
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 04/23/24 08:28
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1912004-1						
Aroclor 1016	ND		ug/kg	47.4	4.21	A
Aroclor 1221	ND		ug/kg	47.4	4.75	A
Aroclor 1232	ND		ug/kg	47.4	10.0	A
Aroclor 1242	ND		ug/kg	47.4	6.39	A
Aroclor 1248	ND		ug/kg	47.4	7.11	A
Aroclor 1254	ND		ug/kg	47.4	5.18	A
Aroclor 1260	ND		ug/kg	47.4	8.76	A
Aroclor 1262	ND		ug/kg	47.4	6.02	A
Aroclor 1268	ND		ug/kg	47.4	4.91	A
PCBs, Total	ND		ug/kg	47.4	4.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1912004-2 WG1912004-3								
Aroclor 1016	69		72		40-140	4	50	A
Aroclor 1260	68		72		40-140	6	50	A

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		67		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		66		30-150	B
Decachlorobiphenyl	59		59		30-150	B



METALS

Project Name: 155 CHANDLER SOIL CHARACTER**Lab Number:** L2421711**Project Number:** 01101**Report Date:** 04/28/24**SAMPLE RESULTS**

Lab ID: L2421711-01

Date Collected: 04/17/24 12:00

Client ID: BACEMENT EW

Date Received: 04/19/24

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 04/21/24 02:35

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Barium, TCLP	0.302	J	mg/l	0.500	0.0210	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Lead, TCLP	ND		mg/l	0.500	0.0270	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/25/24 18:45	04/26/24 14:33	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Silver, TCLP	ND		mg/l	0.100	0.0280	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1913234-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Barium, TCLP	ND		mg/l	0.500	0.0210	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Lead, TCLP	ND		mg/l	0.500	0.0270	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Silver, TCLP	ND		mg/l	0.100	0.0280	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 04/19/24 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1913298-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/25/24 18:45	04/26/24 14:27	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 04/19/24 20:34

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1913234-2									
Arsenic, TCLP	102		-		75-125		-		20
Barium, TCLP	108		-		75-125		-		20
Cadmium, TCLP	103		-		75-125		-		20
Chromium, TCLP	105		-		75-125		-		20
Lead, TCLP	102		-		75-125		-		20
Selenium, TCLP	99		-		75-125		-		20
Silver, TCLP	106		-		75-125		-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1913298-2									
Mercury, TCLP	103		-		80-120		-		



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Matrix Spike Analysis
Batch Quality Control

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913234-3 QC Sample: L2421711-01 Client ID: BACEMENT EW										
Arsenic, TCLP	ND	1.2	1.33	111	-	-	-	75-125	-	20
Barium, TCLP	0.302J	20	22.3	112	-	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.568	107	-	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.11	106	-	-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.50	104	-	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.26	105	-	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.557	111	-	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913298-3 QC Sample: L2421711-01 Client ID: BACEMENT EW										
Mercury, TCLP	ND	0.025	0.0248	99	-	-	-	75-125	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913234-4 QC Sample: L2421711-01 Client ID: BACEMENT EW						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.302J	0.299J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913298-4 QC Sample: L2421711-01 Client ID: BACEMENT EW						
Mercury, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: 155 CHANDLER SOIL CHARACTER**Project Number:** 01101**Lab Number:** L2421711**Report Date:** 04/28/24**SAMPLE RESULTS****Lab ID:** L2421711-01**Client ID:** BACEMENT EW**Sample Location:** BUFFALO, NY**Date Collected:** 04/17/24 12:00**Date Received:** 04/19/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	04/23/24 10:55	121,2540G	ROI



Lab Duplicate Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1911991-1 QC Sample: L2421663-03 Client ID: DUP Sample						
Solids, Total	82.0	78.3	%	5		20



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

CoolerA

Custody SealAbsent

Container Information			Initial		Final		Temp		Frozen		Analysis(*)
Container ID	Container Type	Cooler	pH	pH	pH	deg	C	Pres	Seal	Date/Time	
L2421711-01A	Vial Large Septa unpreserved (4oz)	A	NA	NA	4.1	Y	Absent	Y	Y	TCLP-EXT-ZHE(14)	TS(7),NYTCL-8082(365) CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2421711-01B	Glass 120ml/4oz unpreserved	A	NA	NA	4.1	Y	Absent	Y	Y	-	
L2421711-01C	Glass 120ml/4oz unpreserved	A	NA	NA	4.1	Y	Absent	Y	Y	-	
L2421711-01X	Plastic 120ml HNO3 preserved Extracts	A	NA	NA	4.1	Y	Absent	Y	Y	-	
L2421711-01X9	Tumble Vessel	A	NA	NA	4.1	Y	Absent	Y	Y	TCLP-VOA(14)	TCLP-VOA(14)
L2421711-01Y	Vial unpreserved Extracts	A	NA	NA	4.1	Y	Absent	Y	Y	-	
L2421711-01Z	Vial unpreserved Extracts	A	NA	NA	4.1	Y	Absent	Y	Y	TCLP-VOA(14)	



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

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: DU Report with 'J' Qualifiers



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Date Rec'd in Lab	4/20/20
ALPHA Job #	100371

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Project Information:	
Project Name:	15.5 Chandler Soil Characterization
Project Location:	Buffalo, NY
Project #	01101
(Use Project name as Project #)	☐
Project Manager:	Mack Hanna + Macy Szustak
ALPHAQuote #:	
Turn-Around Time	
Standard ☒	Due Date:
Rush (only if pre approved) ☐	# of Days:

Deliverables	☐ ASP-A ☐ EQUIS (1 File) ☐ Other	☐ ASP-B ☐ EQUIS (4 File)	☒ Same as Client Info PO # <i>01101</i>	Billing Information
Regulatory Requirement	☐ NY TOGS ☐ AWQ Standards ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NYC Sewer Discharge	☐ NY Part 375 ☐ NY CP-51 ☐ Other	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility:	☐ NJ ☐ NY ☐ Other:

ANALYSIS	SAMPLE FILTRATION
VOCs	☐ Done
CRA	☐ Lab to do
metals	☐ Preservation
	☐ Lab to do

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please also email results to labresults@envadvantage.com

Please specify Metals or TAL.

[illegible]

Westhorm: Certification No: MA935						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					
Manefield: Certification No: MA015											
Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup O = Cube E = Encore D = BOD Bottle						Container Type Preservative		Received By:		Date/Time	
						V A A		R Bishop		4-19-24 13:55	
						A A A		R Bishop		4/20/24 0830	
Relinquished By: <i>Callie Snyder</i> <i>R Bishop</i>						Date/Time 4/19/24 13:50 4-19-24 1539z					
Form No: 01-25 HC (rev. 30-Sept-2013)											

APPENDIX D

Field Data Sheets

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: Matrix
Date of Inspection: 01-08-2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
31	31	30

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	-0.001	-5.979	-24.00	- 0.334	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
35	NR	NR

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: Collin Snyder

Date of Inspection: 03-05-2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
22.86	23.47	21.37

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	0.000	-4.424	-16.54	-0.255	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
31	0.4	1.7

Notes:

Ambient PID 0.2-0.4 in blower closet Post carbon PID stabilized at 0.0 ppm.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 06/11/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
21.13	21.62	19.88

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	0.112	-4.964	-15.75	-0.198	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
26	0.0	0.0

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder

Date of Inspection: 06/18/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
20.47	20.89	19.05

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.012	-0.126	-5.007	-15.69	-0.209	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.0	0.0

Notes: Pressure in MP-1 slowly rose once monometer was attached.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 06/25/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
20.64	21.05	19.18

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.021	-0.108	-5.110	-15.89	-0.210	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.0	0.1

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 07/02/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
51.94	52.85	48.33

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.013	-0.108	-5.515	-16.12	-0.207	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.9	0.3

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 7/9/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
51.62	52.75	43.11

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.044	-02.11	-13.00	-40.21	-0.504	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.6	0.8

Notes: Pre/Post Carbon samples taken.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

APPENDIX E

Waste Disposal Documentation

AMERICAN RECYCLERS COMPANY

Waste Profile Report (WPR)

177 Wales Avenue Tonawanda, New York 14151 Phone (716) 695-6720 Fax (716) 695-0161	APPROVAL NUMBER: A-24083L EXPIRATION DATE: 04/29/25 HANDLING CODE: L

Generator: Pierce Arrow Business Center BCP # C915312 **EPA ID #:** _____
Address: 155-157 Chandler Street **Contact:** Rocco Termini
City: Buffalo **STATE:** NY **ZIP:** 14207 **Phone:** 716-842-1938 **Fax:** _____

Waste Name: Soil Cuttings	Shipping Name: Non RCRA Non DOT Regulated
Generating Process: Extraction well installation	Rate of Generation: Once
	Container Type: 5 Gal Plastic

Composition of Waste	%	%	Phase	%
Soil cuttings	100 -		Solids	
(Analysis attached)	-		Liquid	
BCP Site ID C915312	-		Sludge	
			Debris	

Is the material RCRA listed or Characteristicly Hazardous?	☐ YES	☒ NO
Does the material contain Medical or Biological Wastes?	☐ YES	☒ NO
Does the material contain etiological waste?	☐ YES	☒ NO
Does the material contain, or has it come in contact with PCB's?	☐ YES	☒ NO
Is the material radioactive?	☐ YES	☒ NO
Does the material contain septic or domestic sewage?	☐ YES	☒ NO
Is the material Non-Hazardous as defined by RCRA Title 40?	☒ YES	☐ NO

Check all below which apply:

Material is to be shipped and recycled as Universal Waste	☐ YES	☒ NO
Material is to be shipped and recycled under 6 NYCRR Part 371.1(g)(1)(ii)(b) (ie Computer Equipment & monitors)	☐ YES	☒ NO
Material is being shipped for disposal/recycle via facility transfer/consolidation permit	☒ YES	☐ NO
Material is a Labpack and all contents are CERTIFIED as Non-RCRA	☐ YES	☒ NO
List all Lab Pack Container Numbers: (Attach packing slips to profile)		

I certify that the above submitted information (including any attachments) is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed. All material offered herein is deemed Non-RCRA.

Signer Title: Project Manager
Company: Environmental Advantage, Inc.

Signed: Mary Szustak **Print:** Mary Szustak on behalf of R&M Leasing, LLC **Date:** 4/29/2024

ARC Personnel Reviewed and Approved by:

Approved by: Thomas Szustak **Print:** Tom Martin **Date:** 04/29/24

**DIRT WORKS INC.**11518 Junction Road
East Aurora, NY 14052

716-863-1744

email: dirtworks27@yahoo.com
www.dirtworkswny.com

Invoice #

1330

JOB # _____

CUSTOMER Env Advantage DATE 7-10-24LOAD LOCATION 155 Chandler DUMP LOCATION _____TRUCK # & DRIVER S Lucas JOB START _____☐ DUMP TRUCK SERVICE JOB FINISH _____☐ DUMP TRAILER SERVICE TRAVEL TIME _____☐ OTHER _____ ☐ LUNCH ☐ NO LUNCHMATERIAL HAULED 9A drums TOTAL 2

LD #	TICKET #	WEIGHT	WAIT TIME ON JOB IN - OUT	REMARKS SPECIFY: ON "HOLD" @ PLANT, TOLLS, DUMP LOCATIONS, ETC.
1			-	
2				Pick up - drums at
3				155 Chandler
4			-	
5			-	
6			-	
7			-	
8			-	
9			-	
10			-	
11			-	
12			-	
13			-	
14			-	
15			-	

OUR RESPONSIBILITY ENDS AT THE CURB

CUSTOMER'S SIGNATURE: _____

OFFICE - White & Yellow • CUSTOMER - Pink

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone (716) 467-3130	4. Waste Tracking Number 01101
5. Generator's Name and Mailing Address Pierce Arrow Business Center BOP: C915312 155-157 Chandler St. Buffalo, NY 14207			Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name Dirt Works, Inc.			U.S. EPA ID Number 9A-986		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address American Recyclers Company 177 Wages Avenue Tonawanda, NY 14151 (716) 695-6720			U.S. EPA ID Number NYR000030809		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON RCRA, NON DOT Regulated (Soil cuttings from Well Installation)		1	DF	EST 20	P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval #: 1. A-24083-L Handling Codes: 1. None					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name Mary Szustak on behalf of PABC		Signature Mary Szustak		Month 7	Day 10
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Part of entry/exit: Date leaving U.S.:		Year 24	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Lucas Grah		Signature		Month 7	Day 10
Transporter 2 Printed/Typed Name		Signature		Year 24	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)			Month 07		
			Day 10		
			Year 24		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Garrett Sain		Signature		Month 07	Day 10
				Year 24	

APPENDIX F

Operation and Maintenance Plan

OPERATION AND MAINTENANCE PLAN

November 1, 2024

Pierce Arrow Business Center
155 Chandler Street
Buffalo, New York 14203
NYSDEC Site #C915312

Prepared For:

R&M Leasing LLC

Prepared By:



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4.4 Alternate O&M	3
5.0 RECORD KEEPING AND REPORTING.....	4

Figure 1: SSD System Layout and Piping Diagram

Figure 2: Vapor Extraction Point and Monitoring Point Detail

Figure 3: Process and Instrumentation Diagram

Figure 4: SSD System Layout – Profile View

Appendix A: Equipment Specification Sheets

Appendix B: Field Data Sheet Template

Appendix C: Operation and Maintenance Manual

1.0 INTRODUCTION

This Operation and Maintenance (O&M) Plan has been developed by Matrix Environmental Technologies Inc. (METI) at the request of Environmental Advantage, Inc. (EA) on behalf of R&M Leasing LLC for the Pierce Arrow Business Center (PABC) located at 155 Chandler Steet, Buffalo, New York. The Plan describes operation and maintenance procedures for the sub-slab depressurization (SSD) system operating within the area of the building occupied by Blackbird Cider Works and ODL Orthodontic Lab, located on the building's ground level, as well as a basement storage room.

2.0 SSD SYSTEM EQUIPMENT

The SSD system creates negative pressure under the building floor slab relative to the indoor air pressure, thereby minimizing the potential for soil gas to migrate into the building. The system uses a 3.5 HP GAST Regenair[®] regenerative blower (R6335A-2) to apply vacuum to three vapor extraction points (EX-1 through EX-3). Vapors are treated with carbon filtration to control nuisance odors. The systems were designed to create a minimum negative pressure of at least 0.002 inches WC in the sub-slab in each area. A site plan and SSD system layout is shown in **Figure 1**.

2.1 SSD System Components

The primary components of each SSD system is summarized below.

- **Vapor extraction points:** Each vapor extraction point is constructed of four-inch diameter Schedule 40 PVC pipe with screen extending to just below the concrete slab. The annular space is filled with clean gravel and sealed with bentonite or non-shrinking grout. A construction detail is included as **Figure 2**.
- **Manifold/Laterals:** Sub-slab vapor from the extraction points is routed into a wall mounted header located inside an interior storage closet. Therefore, only one four-inch diameter PVC pipe penetrates the exterior building wall. Each extraction well line is equipped with a vacuum gauge and ball valve for shutting off flow.
- **Blowers or Fans:** The SSD system includes a 3.5 HP GAST Regenair[®] regenerative blower (R6335A-2). Blower specification sheets are included in **Appendix A**.
- **Carbon Treatment:** A 175-pound vapor phase carbon vessel was installed to control nuisance odors in accordance with 6 NYCRR Part 212. The carbon vessel is located inside the interior storage closet. A specification sheet is included in **Appendix A**.
- **Equipment Enclosure:** The regenerative blower is housed in a soundproof, weatherproof enclosure on the roof of the building.

2.2 SSD System Operation

A process and instrumentation diagram for the SSD system is included in **Figure 3**. The system applies a low vacuum to the sub-slab via three extraction wells to induce a negative pressure gradient beneath the building in order to prevent vapor intrusion to indoor air. The system is designed to operate on a continuous basis with the exception of periodic shutdowns to conduct maintenance.

The minimum target differential pressure is 0.002 inches of water column (in w.c.). Vacuum measurements and system operational data collected during systems startup and for the first month of system operation are included in **Table 1**. Refer to **Figure 4** for a system profile view.

3.0 SSD SYSTEM MONITORING AND SAMPLING

Initial O&M system checks were completed weekly for the first month of systems operation. Additional site checks will be completed monthly for the following two months and on a quarterly basis thereafter. If determined necessary, site checks may be completed more frequently in the future.

Routine monitoring will include the identification and repair of any leaks, operational status checks of the blower, documentation of manifold settings and vacuum at each vapor extraction point, and documentation of vacuum at each monitoring point. A copy of the blank field sheet used to record data is included in **Appendix B**. Non-routine maintenance, including carbon changeouts, will be completed as necessary.

Pre-carbon and post-carbon air samples were collected on a monthly basis for the initial three months of system operation and will be collected on a quarterly basis for at least the first year of system operation. All samples will be submitted for laboratory analysis of VOCs via EPA Method TO-15. Pre-carbon and post-carbon photoionization detector (PID) readings will also be collected during regular system checks.

4.0 SSD SYSTEM OPERATIONS AND MAINTENANCE

4.1 Routine Maintenance of Systems Components

Routine maintenance of system components will be completed to ensure that the SSD system is operating as designed. An Operation and Maintenance Manual for the blower is included in **Appendix C**. Routine maintenance of the blower includes visual inspection and cleaning of dirt/debris on the outside of the blower; monitoring/cleaning of the blower inlet; and changing of the influent particulate filters. Visual inspection of the extraction wells, piping, and fittings will also be completed.

4.2 Parts Replacement

Besides the filter elements, system components will only require replacement when the part is damaged or malfunctions. The replacement frequency of the filters will vary depending on particulate loading but is anticipated to be approximately every 6 to 18 months.

Based on VOC concentrations in the influent air to the Area A system, carbon changeouts will be required approximately every two years.

Vacuum gauges will be replaced when the gauge stops recording or the dial becomes “stuck”. The replacement gauge will be scaled for the full vacuum range of the blower.

Control valves will be replaced if they become damaged or stuck in a particular position.

If signs of deterioration or damage to the extraction wells, piping, or fittings such as warping or cracking are observed, the component will be replaced.

4.3 Potential Operating Problems

Potential operating problems are identified below:

- **Obstruction or blockage in system.** The blower may experience low flow and/or high exhaust temperature if an obstruction develops in the vacuum or discharge piping. High blower inlet vacuum is indicative of a blockage or obstruction, such as a completely closed control valve, a clogged filter, condensate, debris, or ice buildup.
- **Break or leak in system piping.** A break or leak in the extraction piping will cause ambient air to be drawn into the system, resulting in higher than normal flows or lower than normal vacuum levels. Vacuum influence in the sub-slab may be diminished, potentially resulting in insufficient vapor mitigation. The cause of the low vacuum condition should be promptly investigated and repaired, and vacuum and system operational data subsequently monitored to ensure they are within the normal range.
- **Blower malfunction.** A blower that is operating outside of its performance curve should be inspected to determine if repairs are needed. Excessive noise, vibrations, or operating temperature may also be indications that a blower is malfunctioning. The incoming voltage and amp draw of the blower motor will be checked by an electrician as needed.
- **Low sub-slab differential pressure.** A sub-slab differential pressure less than the target of 0.002 in w.c. may result in insufficient vapor mitigation. A low differential pressure may be the result of an imbalanced system caused by higher air flow from certain extraction wells than others, indicating the manual flow control valves at each riser need to be adjusted to generate a near uniform vacuum field across the entire mitigation area.
- **Power loss.** The cause of a power loss should be investigated and repaired as quickly as possible.

4.4 Alternate O&M

Should the SSD systems fail to operate as intended or if unanticipated conditions are encountered, the following procedures should be employed.

- **Sub-slab differential pressure below target.** If the target sub-slab differential pressure of 0.002 in w.c. cannot be achieved following system adjustments, alternative measures to ensure effective vapor mitigation may include:
 1. Additional data collection, such as targeted indoor air sampling or smoke testing;
 2. Installation of addition extraction points;
 3. Repair or replacement of extraction points;
 4. Repair of any cracks in the floor causing short-circuiting;
 5. Upsizing the SSD system blower.
- **Emissions standards exceeded.** In the event that discharge VOC concentrations exceed regulatory standards, carbon will be changed out or additional carbon vessels will be added.
- **Excessive moisture buildup.** The extraction piping is sloped such that any entrained moisture should drain back to the extraction points. However, if excessive moisture is encountered, the extraction piping will be modified to include moisture collection tanks and/or a moisture knockout tank upstream of the blower.
- **Indoor air concentration exceedances.** If indoor air concentrations exceeding the applicable regulatory standards are detected, the following measures may be implemented:
 1. Conduct additional investigations to identify if an indoor air source may be the cause of the exceedance;
 2. Conduct additional SSD system inspections and maintenance to ensure the system is operating as designed;
 3. Adjust or rebalance the SSD system;
 4. Enhance vacuum coverage via the methods detailed above.

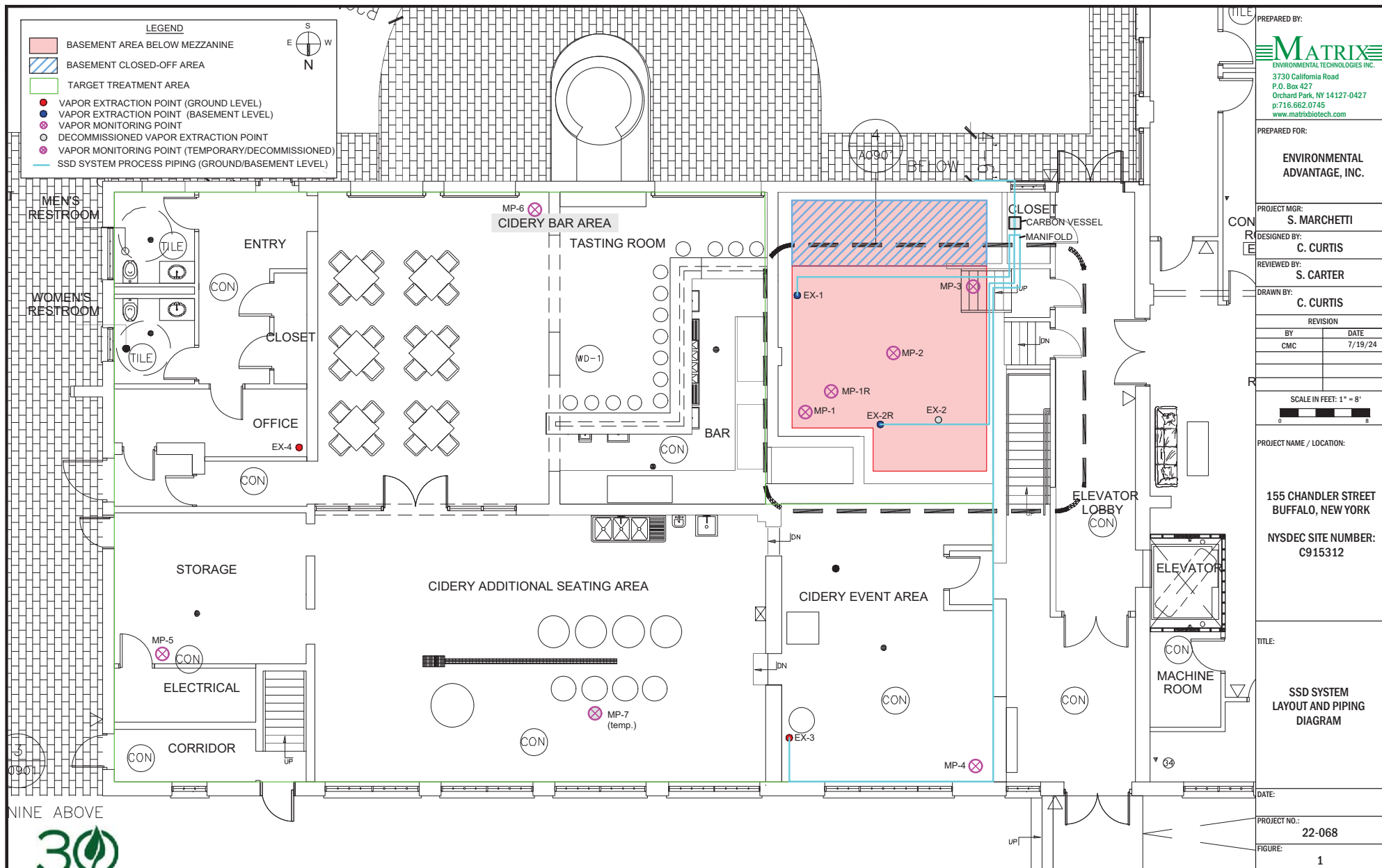
5.0 RECORD KEEPING AND REPORTING

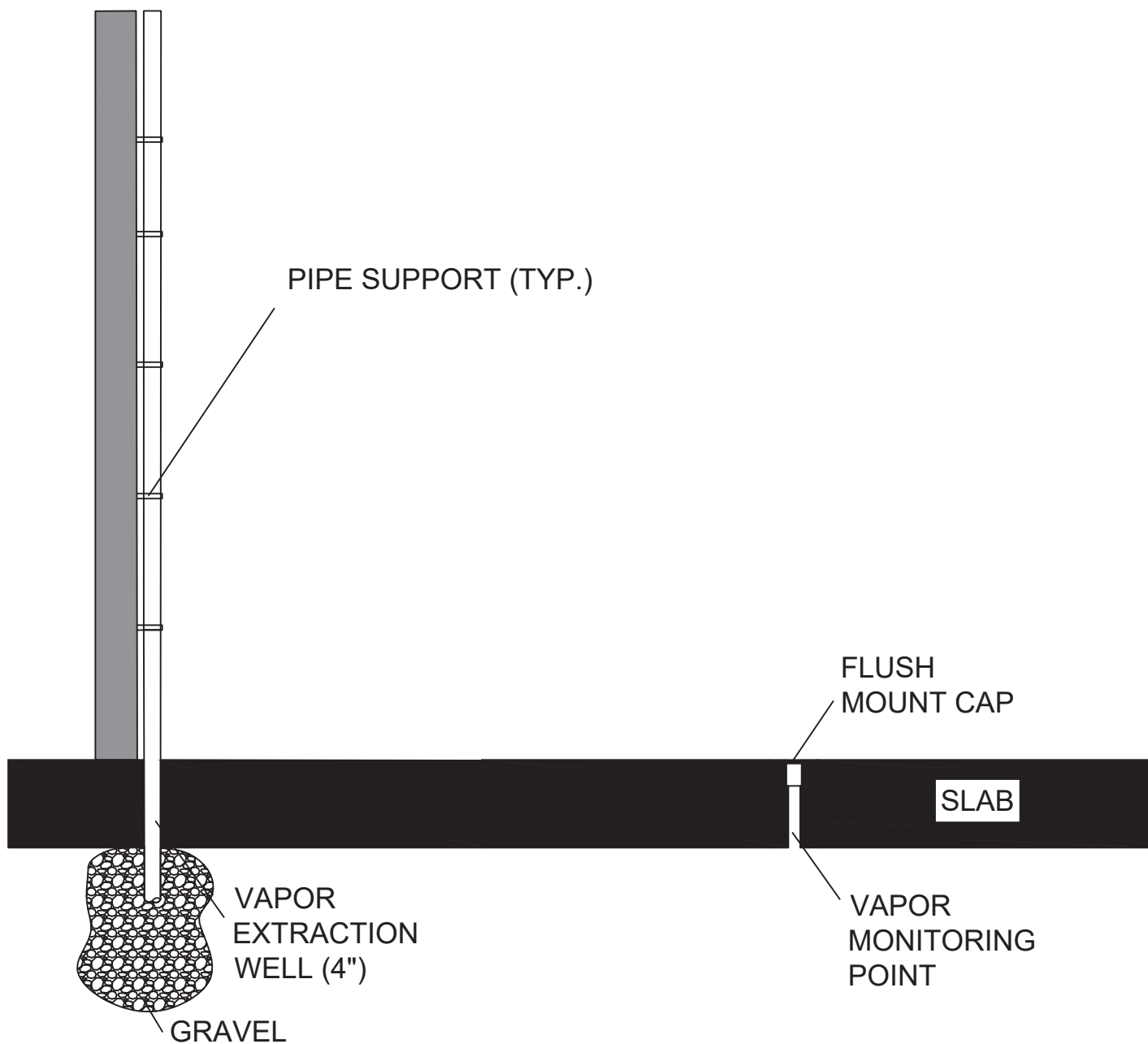
Field sheets completed during each site visit will be recorded to document system monitoring, inspections, and maintenance. An O&M form should also be completed during unanticipated site visits in response to a system malfunction. The cause of the system malfunction and any corrective actions taken should be detailed.

An annual report will be prepared to document SSD system operation, maintenance, and monitoring activities. Reports will be submitted to NYSDEC.

FIGURES

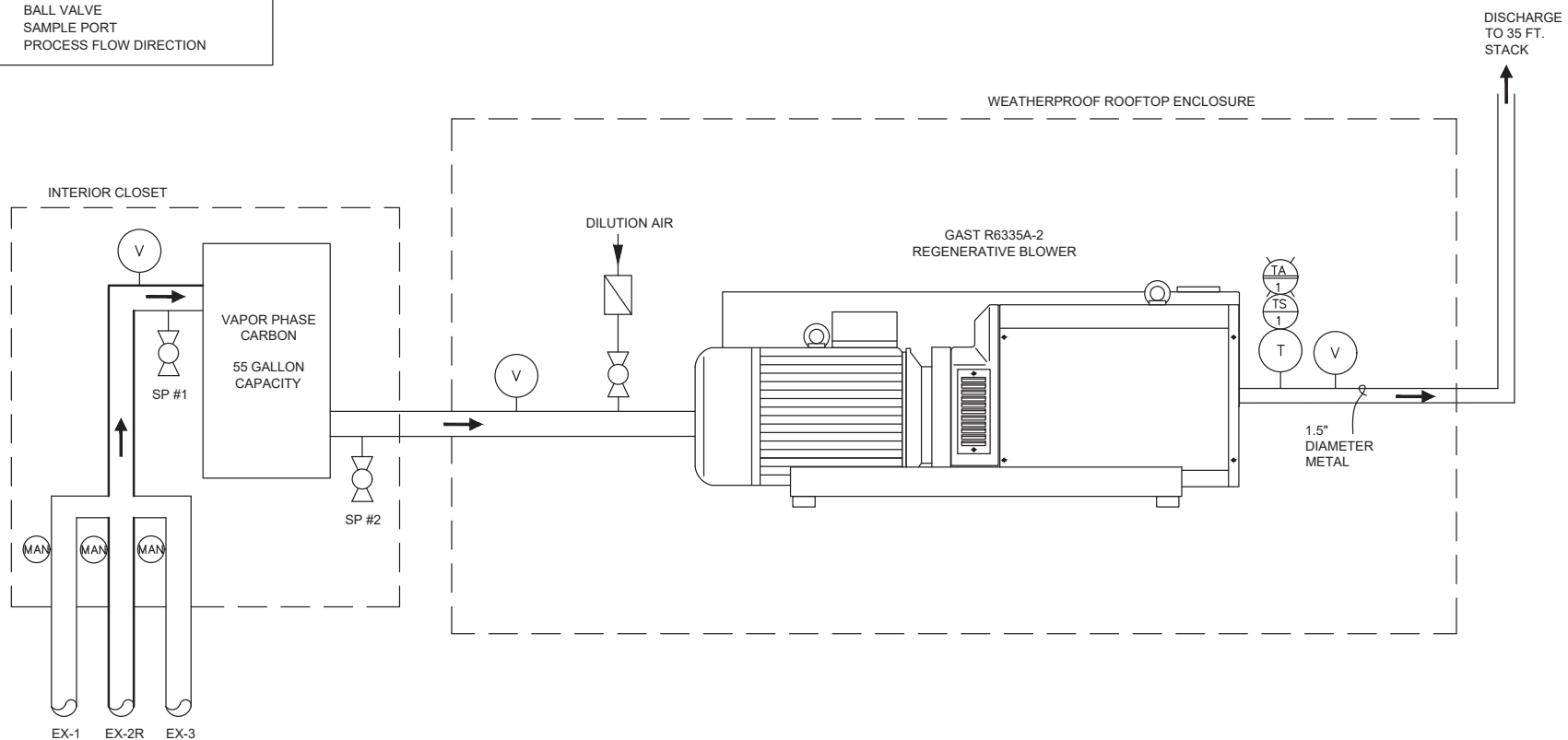
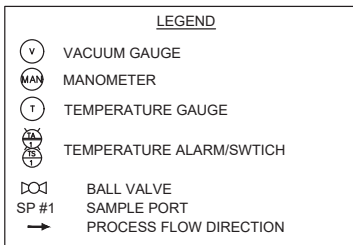






PREPARED BY:  3730 California Road P.O. Box 427 Orchard Park, NY 14127-0427 p:800.871.0745 www.matrixtech.com	PROJECT MGR: SLM	PROJECT NAME / LOCATION: 155 CHANDLER STREET BUFFALO, NEW YORK NYSDEC SITE NO. C915312	TITLE: VAPOR EXTRACTION POINT AND MONITORING POINT DETAIL	REVISION		PROJECT NO.: 22-068
	DESIGNED BY: CMC			BY	DATE	
PREPARED FOR: ENVIRONMENTAL ADVANTAGE, INC.	REVIEWED BY: SRC			CMC	10/31/24	FIGURE: 2
	DRAWN BY: CMC					
				SCALE IN FEET: N/A 		 years dedicated to a CLEANER ENVIRONMENT 1991 - 2021

DATE:



PREPARED BY:
MATRIX
 ENVIRONMENTAL TECHNOLOGIES INC.
 3730 California Road
 P.O. Box 427
 Orchard Park, NY 14127-0427
 p:716.662.0745
 www.matrixbiotech.com

PREPARED FOR:
ENVIRONMENTAL ADVANTAGE, INC.

PROJECT MGR:
S. MARCHETTI

DESIGNED BY:
C. CURTIS

REVIEWED BY:
S. CARTER

DRAWN BY:
C. CURTIS

REVISION	
BY	DATE
CMC	10/30/24

SCALE IN FEET: N/A

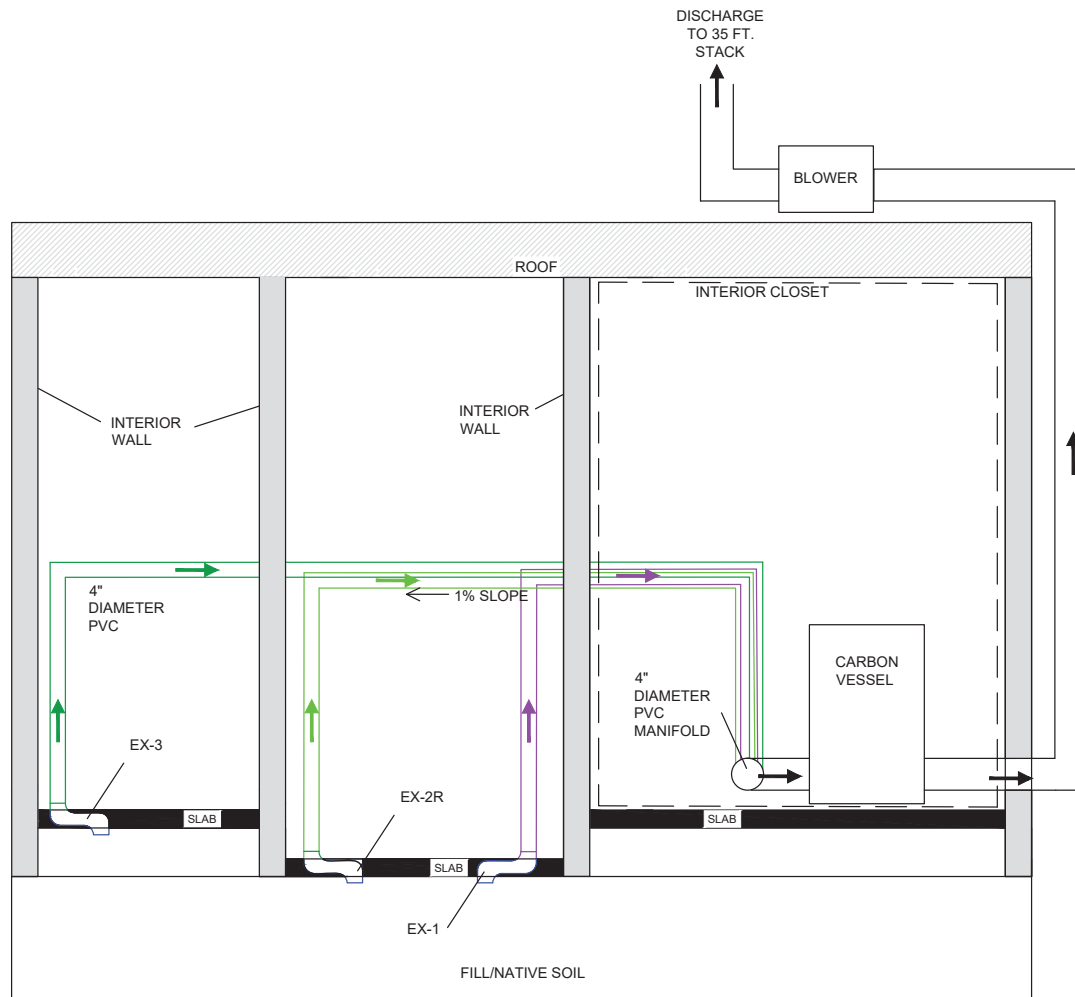
PROJECT NAME / LOCATION:
**155 CHANDLER STREET
 BUFFALO, NEW YORK**
**NYSDEC SITE NUMBER:
 C915312**

TITLE:
**PROCESS AND INSTRUMENTATION
 DIAGRAM**

DATE:

PROJECT NO.:
22-068

FIGURE:
3



PREPARED BY:

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 ADVANTAGE, INC.**

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DESIGNED BY:

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REVIEWED BY:

S. CARTER

DRAWN BY:

C. CURTIS

REVISION	
BY	DATE
CMC	10/31/24

SCALE IN FEET: N/A

PROJECT NAME / LOCATION:

**155 CHANDLER STREET
 BUFFALO, NEW YORK**

**NYSDEC SITE NUMBER:
 C915312**

TITLE:

**SSD SYSTEM LAYOUT -
 PROFILE VIEW**

DATE:

PROJECT NO.:

22-068

FIGURE:

4

APPENDIX A
Equipment Specification Sheets

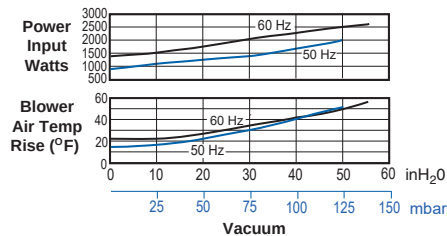
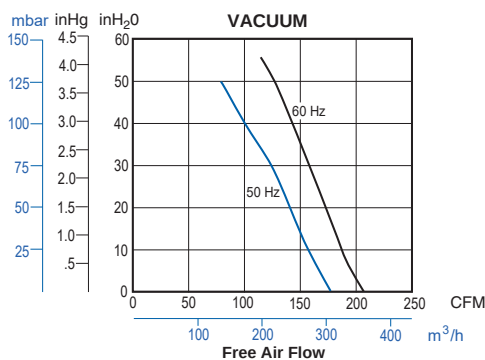
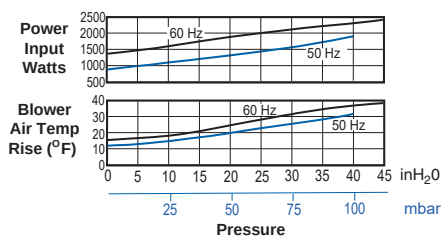
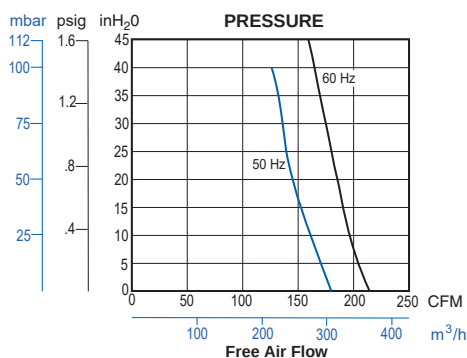
Product Specifications

MODEL NUMBER		R6125-2	R6325A-2	R6135J-10	R6335A-2
Motor Enclosure		TEFC	TEFC	ODP	TEFC
HP/kW	60 Hz	2.5/1,9	2.5/1,9	3.5/2,6	3.5/2,6
	50 Hz	1.5/1,1	1.85/1,38	-	2.5/1,9
Voltage	60 Hz	115/208-230-1	208-230/460-3	230-1	208-230/460-3
	50 Hz	110/220-240-1	190-220/380-415-3	-	190-220/380-415-3
Amps	60 Hz	22/12.5-11	6.9-6.9/3.45	19	9.7-8.8/4.4
	50 Hz	18/9.5	6.6-6.7/3.3-3.5	-	8.8/4-3.9
Starting Amps	60 Hz	58 @ 230V	58 @ 230V	125 @ 230V	50 @ 460V
	50 Hz	42 @ 240V	23.5 @ 380V	-	40.5 @ 380V
Insulation Class		F	B	F	F
Recommended NEMA Starter Size		1/0	0/00	1P	1/0
Net Weight (lbs/kg)		87/39,5	76/34,5	112/50,8	82/37,2

MODEL NUMBER		R6335B	R6150J-2	R6350A-2	R6350B-2
Motor Enclosure		TEFC	ODP	TEFC	TEFC
HP/kW	60 Hz	3.5/2,6	5.0/3,7	5.0/3,7	5.0/3,7
	50 Hz	-	-	4.8/3,6	-
Voltage	60 Hz	575-3	230-1	208-230/460-3	575-3
	50 Hz	-	-	190-220/380-415-3	-
Amps	60 Hz	3.6	22.3	13.0-12.0/6.0	4.8
	50 Hz	-	-	14.4-13.4/7.2-6.8	-
Starting Amps	60 Hz	34.9 @ 575V	96 @ 230V	125 @ 230V	35 @ 575V
	50 Hz	-	-	57 @ 380V	-
Insulation Class		F	F	F	F
Recommended NEMA Starter Size		0	1P	1/0	0
Net Weight (lbs/kg)		82/37,2	125/56,8	112/50,8	112/50,8

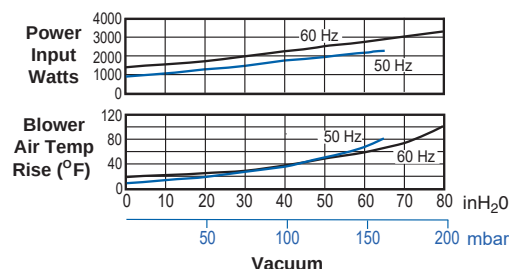
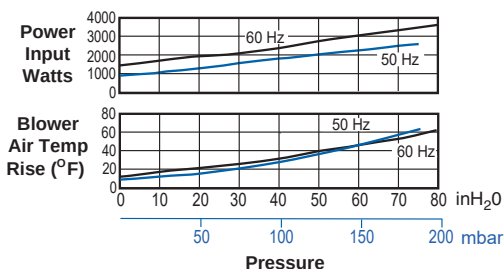
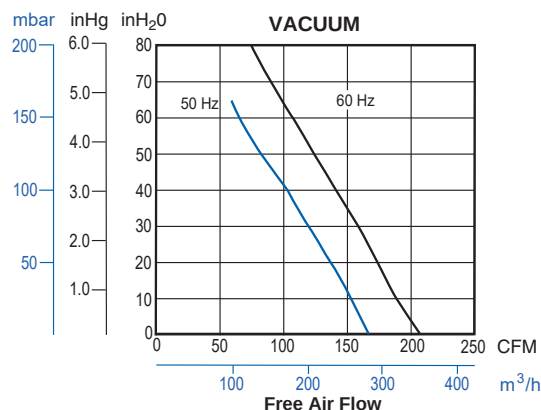
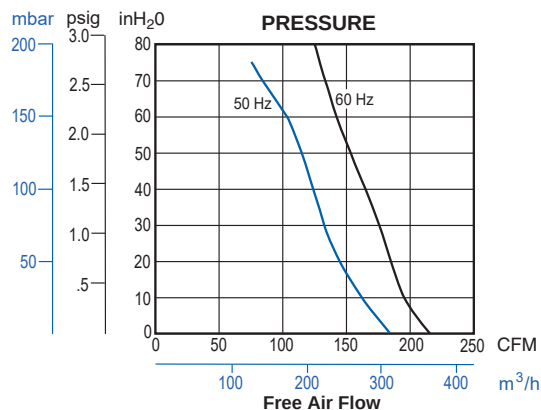
Product Performance

Models R6125-2, R6325A-2

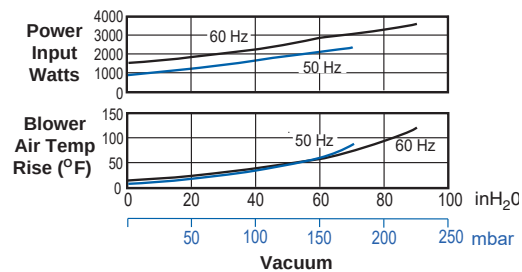
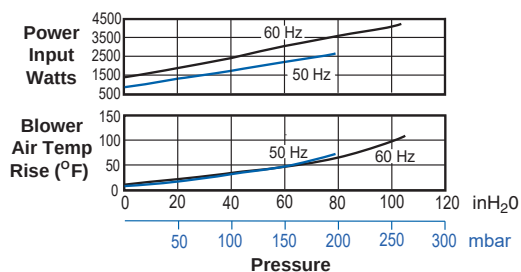
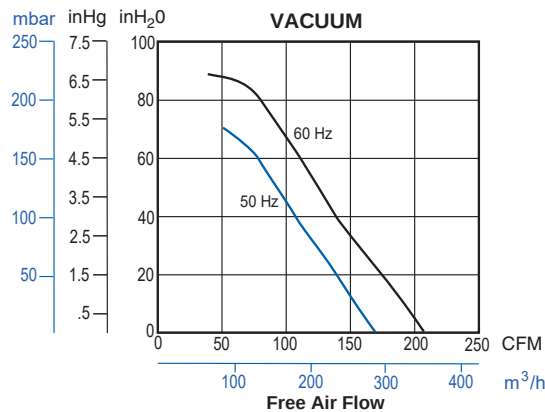
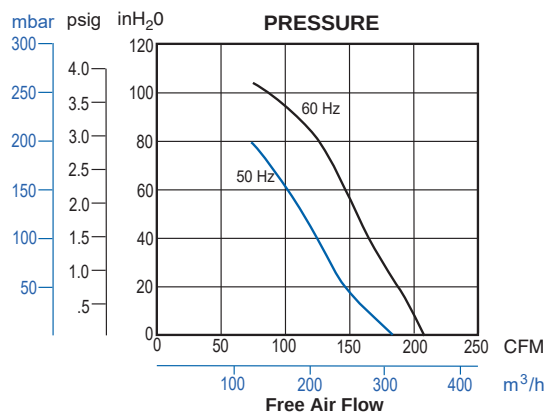


Product Performance

Models R6135J-10, R6335A-2, R6335B



Models R6150J-2, R6350A-2, R6350B-2



AIR 175 Poly

TYPICAL FLOWS	5-100 scfm
MAXIMUM SUGGESTED FLOW	150 scfm
MAXIMUM OPERATING PRESSURE	<1 psig
MAXIMUM TEMPERATURE	140°F



4
D 22

STANDARD FEATURES

- ❖ 5
- ❖ D
- ❖ 0
- ❖ 2
- ❖

OPTIONAL FEATURES

- ❖
- ❖
- ❖
- ❖
- ❖
- ❖

APPENDIX B

Field Data Sheets



155 Chandler Street, Buffalo, NY (Site #C915312)

DATE:

PERFORMED BY:

Extraction Well Vacuum Data (in WC)		
□□□□	□□:2R	□□□□

Monitoring Point Vacuum Data (in WC)						
M001	M001R	M002	M003	M004	M005	M006

Blower Operational Data		
Blower ID	DR	DR

NOTES:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

[illegible]

APPENDIX C

Operation and Maintenance Manual

STANDARD REGENAIR BLOWER

OPERATION & MAINTENANCE MANUAL



Model R1 Shown



Model R6P350A Shown



Model R7P Shown

Thank you for purchasing this Gast product. It is manufactured to the highest standards using quality materials. Please follow all recommended maintenance, operational and safety instructions and you will receive years of trouble free service.



WARNING



PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND USING THIS PRODUCT. SAVE THIS MANUAL FOR FUTURE REFERENCE AND KEEP IN THE VICINITY OF THE PRODUCT.

General information

This manual does not apply to:

- SDR Series blowers without motors
- Blowers powered with Explosion Proof Motors

Product Use Criteria:

- Pump only clean, dry air.
- Operate at -20°F - 104°F (-29°C - 40°C).
- Protect unit from dirt & moisture.
- Do not pump flammable or explosive gases or use in an atmosphere that contains such gases.
- Protect all surrounding items from exhaust air. This exhaust air can become very hot.
- Corrosive gases and particulate material will damage unit. Water vapor, oil-based contaminants or other liquids must be filtered out.
- The blower must be installed with the properly sized inlet and inline filters, gauges and relief valves to protect the product from dirt and over-heating.
- Consult your Gast Distributor/Representative before using at high altitudes.



A Unit of **IMEX** Corporation

ISO 9001 & 14001 CERTIFIED

www.gastmfg.com

**Your safety and the safety of others
is extremely important.**

We have provided many important safety messages in this manual and on your product. Always read and obey all safety messages.



This is the safety alert symbol. This symbol alerts you to hazards that can kill or hurt you and others. The safety alert symbol and the words "DANGER" and "WARNING" will precede all safety messages. These words mean:

** DANGER**

You will be killed or seriously injured if you don't follow instructions.

** WARNING**

You can be killed or seriously injured if you don't follow instructions.

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the safety instructions are not followed.

INSTALLATION

** WARNING**



Electrical Shock Hazard

Disconnect electrical power at the circuit breaker or fuse box before installing this product.

Install this product where it will not come into contact with water or other liquids.

Install this product where it will be weather protected.

Electrically ground this product.

Failure to follow these instructions can result in death, fire or electrical shock.

Correct installation is your responsibility. Make sure you have the proper installation conditions and that installation clearances do not block air flow.

Blocking air flow over the product in any way can cause the product to overheat.

The blower must be installed with the properly sized inlet filter, gauge and relief valve to protect the product from dirt and over-heating.

Mounting

The single impeller blower should be oriented with the shaft in a horizontal position, unless the model's product features state otherwise. The dual impeller models must be mounted with the shaft in a horizontal position.

Mounting the product to a stable, rigid operating surface and using shock mounts will reduce noise and vibration.

Rotation

From the motor side of the blower, check that the blower is rotating clockwise. (The motor side is marked with an arrow on most models.) Proper rotation can also be checked by the air flow at the IN and OUT ports. On blowers powered by a 3-phase motor, incorrectly connecting any two power lines can reverse direction.

Plumbing

Remove any foreign material (burrs, chips, welding drops, slag, pipe cuttings, excess sealant, sand or lime) from plumbing.

Check motor mounting and rotation before connecting to plumbing. Inlet and outlet ports are not designed to support plumbing.

Remove plugs from the IN and OUT ports. Use a small amount of pipe thread lubricant when connecting plumbing to protect the aluminum blower threads. Connect with pipe and fittings that are the same size or larger than the product's threaded ports. When installing two blowers in parallel, use plumbing that is two whole pipe sizes larger in diameter than that of the blower. Be sure to connect the intake and exhaust plumbing to the correct inlet and outlet ports.

Plumbing to remove the hot discharge air of larger blowers may be required to help maintain proper room ambient temperature. Use a relief valve to discharge excess air into the atmosphere. If the blower will be operated at 125mbar (50" H₂O) or higher, metal pipe is required for hot exhaust air.

Accessories

Install two vacuum gauges, one before and one after filter, to monitor restriction through filters. As filters become clogged, performance efficiency will be reduced. Filters should be checked periodically and replaced when necessary. See page 7 for installation.

Install a relief valve to avoid changes in pressure or vacuum that can cause overloading of large blowers. Install an intake filter with a relief valve to prevent foreign material from entering blower if blower is used in a vacuum application in a dirty environment. In applications where there is high humidity or liquids being used in the process, install a moisture separator.

See Recommended Accessories on pages 7-9 or consult your Gast Distributor/Representative for additional filter and accessories recommendations. Do Not install check valves that close with a strong spring. The recommended check valves (page 7) provide minimal pressure drop, positive sealing and are resistant to the high discharge temperatures of large blowers.

Motor Installation

It is your responsibility to contact a qualified electrician and assure that the electrical installation is adequate and in conformance with all national and local codes and ordinances.

Select fuses, motor protective switches or thermal protective switches to provide protection. Fuses act as short circuit protection for the motor, not as protection against overload. Incoming line fuses must be able to withstand the motor's starting current. Motor starters with thermal magnetic overload or circuit breakers protect motor from overload or reduced voltage conditions. Motors without automatic restart require thermal protection or magnetic over-current cutout to prevent motor overloading from one phase in a 3-phase circuit, high starting frequency or jammed blower.

The power required will rise as differential pressure increases. The wiring diagram attached to the product or on page 6 of this manual provides required electrical information. Large motors have two diagrams, one for 50Hz wiring specifications and the other for 60Hz wiring specifications. Check that the power source is correct to properly operate the dual-voltage motor. If additional information is required, please consult your Gast Distributor/Representative.

Electrical Connection


WARNING



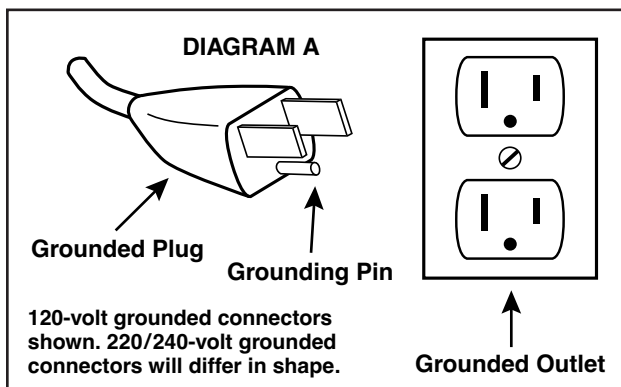
Electrical Shock Hazard

This product must be properly grounded.
Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation that is green or green with yellow stripes is the grounding wire.

Check the condition of the power supply wiring. Do not permanently connect this product to wiring that is not in good condition or is inadequate for the requirements of this product.

Failure to follow these instructions can result in death, fire or electrical shock.



Model with a power supply cord:

This product must be grounded. For either 120-volt or 220/240-volt circuits connect power supply cord grounding plug to a matching grounded outlet. **Do not use an adapter.** (See DIAGRAM A)

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product may be equipped with a power supply cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are not sure whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Model that is permanently wired:

This product must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding terminal or lead on the product.

Power supply wiring must conform to all required safety codes and be installed by a qualified person. Check that supply voltage agrees with that listed on product nameplate.

Extension cords:

Use only a 3-wire extension cord that has a 3-blade grounding plug. Connect extension cord plug to a matching 3-slot receptacle. **Do not use an adapter.** Make sure your extension cord is in good condition. Check that the gage wire of the extension cord is the correct size wire to carry the current this product will draw.

An undersized cord is a potential fire hazard, and will cause a drop in line voltage resulting in loss of power causing the product to overheat. The following table indicates the correct size cord for length required and the ampere rating listed on the product nameplate. **If in doubt, use the next heavier gage cord. The smaller the gage number, the heavier the wire gage.**

Minimum gage for extension cords										
Amps	Volts	Length of cord in feet								
	120v	25	50	100	150	200	250	300	400	500
	240v	50	100	200	300	400	500	600	800	1000
0-2	18	18	18	16	16	14	14	12	12	
2-3	18	18	16	14	14	12	12	10	10	
3-4	18	18	16	14	12	12	10	10	8	
4-5	18	18	14	12	12	10	10	8	8	
5-6	18	16	14	12	10	10	8	8	8	
6-8	18	16	12	10	10	8	6	6	6	
8-10	18	14	12	10	8	8	6	6	4	
10-12	16	14	10	8	8	6	6	4	4	
12-14	16	12	10	8	6	6	6	4	2	
14-16	16	12	10	8	6	6	4	4	2	
16-18	14	12	8	8	6	4	4	2	2	
18-20	14	12	8	6	6	4	4	2	2	

OPERATION

WARNING

Injury Hazard

Install proper safety guards as needed to prevent any close contact with blower suction area.

Keep fingers and objects away from openings and rotating parts.

Product surfaces become very hot during operation, allow product surfaces to cool before handling.

Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection.

Wear hearing protection. Sound level from some models may exceed 85 dBA.

Failure to follow these instructions can result in burns, eye injury or other serious injury.

It is your responsibility to operate this product at recommended pressures or vacuum duties and room ambient temperatures. Do not operate R4P or larger size blowers without air flowing through the blower. Do not throttle discharge or suction pipe to reduce capacity. Throttle will increase differential pressure causing increasing power absorption and working temperatures.

Start Up

Operate blower for an hour and then check:

1. **Ambient temperature** – Check room and discharge air temperatures. Increased room temperatures may require stronger ventilation especially for larger blowers. Exhaust air should not exceed 215°F (102°C) for all blowers less than 3.5 Hp. Exhaust air should not exceed 275°F (135°C) for all blowers above 3.5 Hp.
2. **Working pressure and vacuum values** – Adjust relief valve pressure or vacuum setting, if needed.
3. **Motor current** – Check that supply current matches recommended current rating on product nameplate.
4. **Electrical overload cutout** – Check that current matches rating on product nameplate.

If motor fails to start or slows down significantly under load, shut off and disconnect from power supply. Check that the voltage is correct for motor and that motor is turning in the proper direction.

FOR BLOWERS WITH GREASE FITTINGS

Hours of Service Per Year	Relubrication Intervals
5,000	3 years
Continual Normal Service	1 year
Seasonal Service (motor idle for 6 months or more)	1 year at beginning of season
Continuous-high ambients, dirty or moist applications	6 months

Check that all external accessories such as relief valves and gauges are not damaged before re-operating product.

MAINTENANCE

WARNING



Electrical Shock Hazard

Disconnect electrical power supply cord before performing maintenance on this product.

Some motors are thermally protected and will automatically re-start when protector resets.

If product is hard wired into system, disconnect electrical power at the circuit breaker or fuse box before performing maintenance on this product.

Failure to follow these instructions can result in death, fire or electrical shock.

If the product is supplied with an electric power chord, protect it from twisting, cuts and abrasion. When not in use, store in a clean dry place

WARNING

Injury Hazard

Product surfaces become very hot during operation, allow product surfaces to cool before handling.

Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection.

Failure to follow these instructions can result in burns, eye injury or other serious injury.

It is your responsibility to regularly inspect and make necessary repairs to this product in order to maintain proper operation. Make sure that pressure and vacuum is released from product before starting maintenance.

Check filter elements and noise absorbing foam used in mufflers and clean motor and blower after first 500 hours of operation. Replace filter elements and determine how frequently mufflers should be checked during future operation. This one procedure will help assure the product's performance and service life.

When there is an increase in the differential pressure across the inlet filter it is beginning to clog with dirt. Replace the cartridge when the filter will not come clean.

Small motor bearings (less than 5.5 Hp) never need to be greased. Larger motor bearings (greater than 5.5 Hp) have alemite grease fittings. Use a grease gun and apply one or two strokes of Exxon POLYREX® grease to the fittings to lubricate larger motor bearings.

WARRANTY

Gast finished products, when properly installed and operated under normal conditions of use, are warranted by Gast to be free from defects in material and workmanship for a period of twelve (12) months from the date of purchase from Gast or an authorized Gast Representative or Distributor. In order to obtain performance under this warranty, the buyer must promptly (in no event later than thirty (30) days after discovery of the defect) give written notice of the defect to Gast Manufacturing Incorporated, PO Box 97, Benton Harbor Michigan USA 49023-0097 or an authorized Service Center (unless specifically agreed upon in writing signed by both parties or specified in writing as part of a Gast OEM Quotation). Buyer is responsible for freight charges both to and from Gast in all cases.

This warranty does not apply to electric motors, electrical controls, and gasoline engines not supplied by Gast. Gast's warranties also do not extend to any goods or parts which have been subjected to misuse, lack of maintenance, neglect, damage by accident or transit damage.

THIS EXPRESS WARRANTY EXCLUDES ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESSED OR IMPLIED BY ANY LITERATURE, DATA, OR PERSON. GAST'S MAXIMUM LIABILITY UNDER THIS EXCLUSIVE REMEDY SHALL NEVER EXCEED THE COST OF THE SUBJECT PRODUCT AND GAST RESERVES THE RIGHT, AT ITS SOLE DISCRETION, TO REFUND THE PURCHASE PRICE IN LIEU OF REPAIR OR REPLACEMENT.

GAST WILL NOT BE RESPONSIBLE OR LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, however arising, including but not limited to those for use of any products, loss of time, inconvenience, lost profit, labor charges, or other incidental or consequential damages with respect to persons, business, or property, whether as a result of breach of warranty, negligence or otherwise. Notwithstanding any other provision of this warranty, BUYER'S REMEDY AGAINST GAST FOR GOODS SUPPLIED OR FOR NON-DELIVERED GOODS OR FAILURE TO FURNISH GOODS, WHETHER OR NOT BASED ON NEGLIGENCE, STRICT LIABILITY OR BREACH OF EXPRESS OR IMPLIED WARRANTY IS LIMITED SOLELY, AT GAST'S OPTION, TO REPLACEMENT OF OR CURE OF SUCH NONCONFORMING OR NON-DELIVERED GOODS OR RETURN OF THE PURCHASE PRICE FOR SUCH GOODS AND IN NO EVENT SHALL EXCEED THE PRICE OR CHARGE FOR SUCH GOODS. GAST EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE WITH RESPECT TO THE GOODS SOLD. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTIONS SET FORTH IN THIS WARRANTY, notwithstanding any knowledge of Gast regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by Gast personnel.

Unauthorized extensions of warranties by the customer shall remain the customer's responsibility.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF GAST PRODUCTS FOR CUSTOMER'S USE OR RESALE, OR FOR INCORPORATING THEM INTO OBJECTS OR APPLICATIONS WHICH CUSTOMER DESIGNS, ASSEMBLES, CONSTRUCTS OR MANUFACTURES.

This warranty can be modified only by authorized Gast personnel by signing a specific, written description of any modifications.

ELECTRICAL WIRING DIAGRAMS

Models R1102, R2103, R2105, R3105-1, R3105-12, R4110-2		Model R6150J-2
Low Voltage Single Phase	High Voltage Single Phase	Low Voltage Single Phase
Blue P1 ————— Line Brown P2 ————— Black 5 ————— Tie together Orange 3 ————— & Insulate White 2 ————— Yellow 4 ————— Tie together Line	P1 ————— Line P2 ————— Insulate 5 ————— 3 ————— Tie together 2 ————— & Insulate 4 ————— Line	T1 ————— Line T4 ————— Line Brown ————— Thermostat Wh/Yel ————— Thermostat

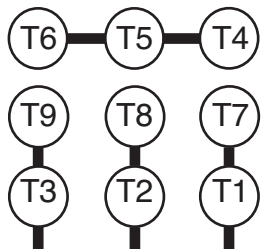
Models R4P115, R5125-2, R6125-2	
Low Voltage Single Phase	High Voltage Single Phase
Purple ————— L1 Brown ————— Tie together Orange ————— & Insulate Blue ————— White ————— L2 Red —————	Purple ————— L1 Brown ————— Insulate White ————— Tie together Orange ————— & Insulate Blue ————— Red ————— L2

Models

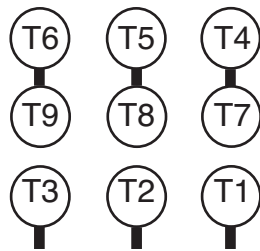
R2303A, R3305A-1, R3305A-13, R4310A-2, R4P315A, R6350A-2, R6P350A, R6PP3110M, R6PS3110M, R7100A-3, R7P3180M, R7S3180M, R93150A

Note: Model R6P355A has two additional leads labeled “J” for an external thermal motor protection circuit.

Connections for 3-Phase, 9 Leads

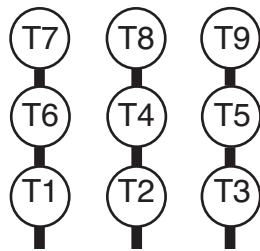


Line
Low Voltage

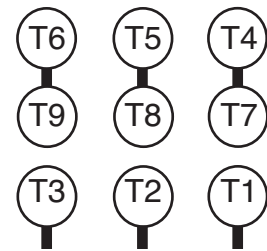


Line
High Voltage

Model R9P3300M, R93150A, R93150A-35

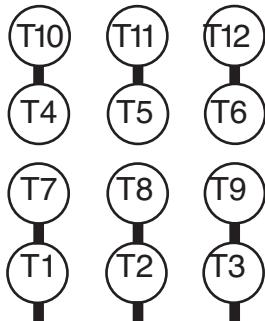


Line
Low Voltage

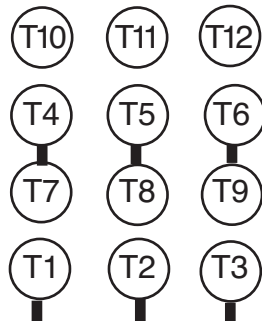


Line
High Voltage

Connections for 3-Phase, 12 Leads Models R6335A-2, R6P335A

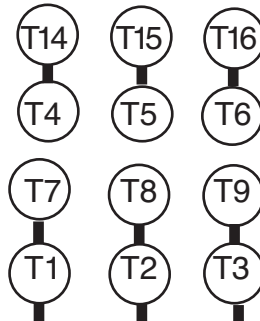


Line
Low Voltage

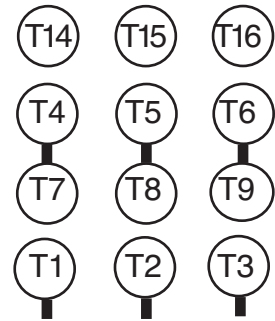


Line
High Voltage

Models R5325A-2, R6325A-2 (BEFORE 1-1-06)

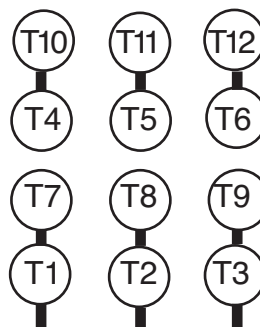


Line
Low Voltage

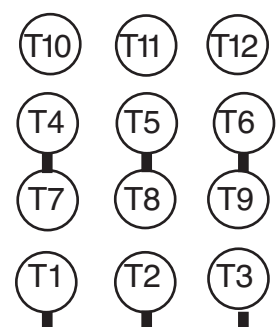


Line
High Voltage

Models R5325A-2, R6325A-2 (AFTER 1-1-06)



Line
Low Voltage



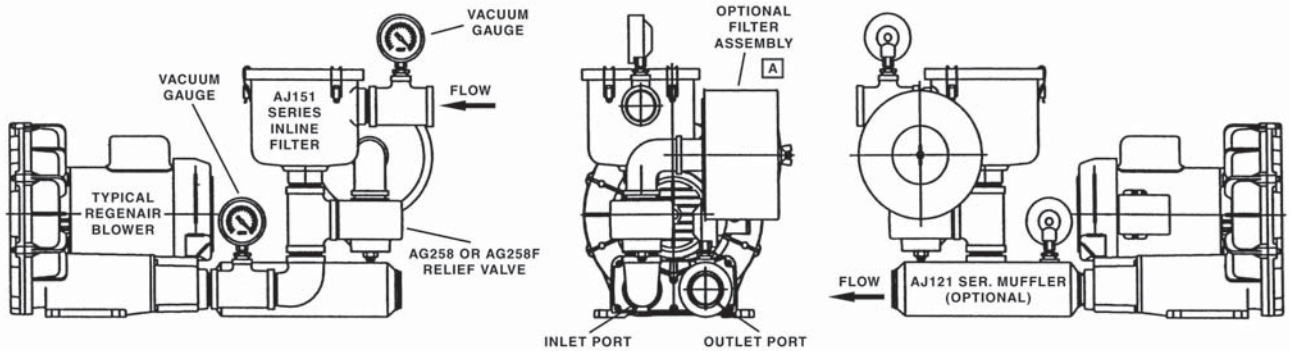
Line
High Voltage

To reverse rotation on any 3-Phase motor, interchange any two external motor line connections to any two line leads.

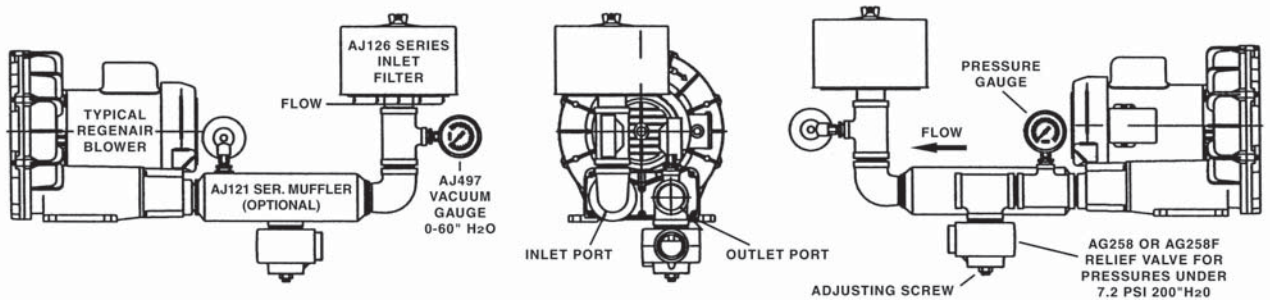
RECOMMENDED ACCESSORIES

The following diagrams are only suggested configurations for these accessories. These accessory configurations may vary depending upon a particular unit's application.

VACUUM ACCESSORIES



PRESSURE ACCESSORIES



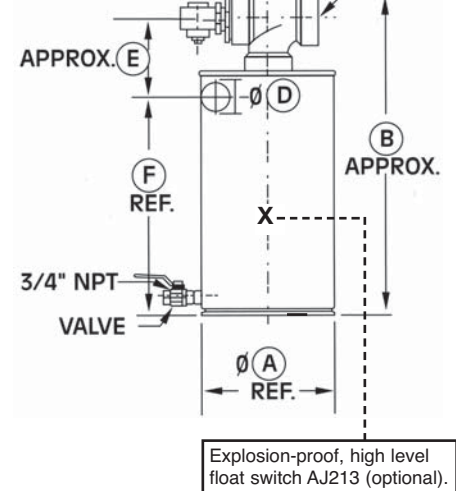
MOISTURE SEPARATOR (FOR VACUUM)

This moisture separator removes liquids from the gas stream in a vacuum process. This helps protect the blower from corrosion and the build up of mineral deposits.

For Model Number	R3, R4, R5	R4, R4H, R4P, R5	R4H, R4M, R5, R6, R6P, R6PS,	R4M, R6, R6P, R6PP, R7, R7P, R7S, R9, R9S
Part Number	RMS160	RMS200	RMS300	RMS400
CFM capacity	160	200	300	400
Liquid capacity (gal.)	10	19	19	40
Diameter (A)	14.8"	19.7"	19.7"	24"
Dimension (B)	37.5"	35"	35"	44"
NPT outlet (C)	2"	2"	2.5"	3"
Inlet diameter (D)	2"	2"	2.5"	3"
Dimension (E)	7.5"	7.5"	7.5"	9.7"
Dimension (F)	26.6"	26.6"	26.6"	29"

Maximum vacuum allowed: 22" Hg.

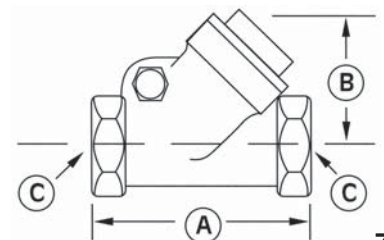
RELIEF VALVE SHIPPED UNATTACHED



HORIZONTAL SWING TYPE CHECK VALVE

This check valve prevents backwash of fluids from entering the blower and air back-streaming. The check valve can be mounted to discharge or inlet either vertically or horizontally. The check valve will open with 3" of water pressure or vacuum.

Model Number	R1, R2	R3	R4, R5, SDR4, SDR4, R4P	R6, R6P, SDR6P, SDR6, R6PS	R7, R7S
Part Number	AH326B	AH326C	AH326D	AH326F	AH326G
Dimension (A)	3.57"	4.19"	4.50"	5.25"	8.00"
Dimension (B)	2.32"	2.69"	2.94"	3.82"	5.07"
Dimension (C)	1.00" NPT	1.25" NPT	1.50" NPT	2.00" NPT	2.50" NPT

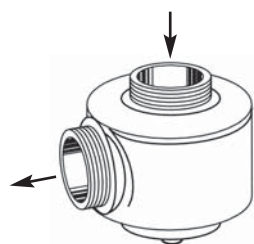


RECOMMENDED ACCESSORIES



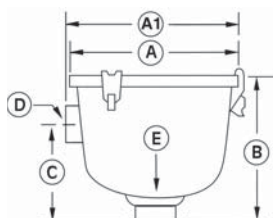
PRESSURE – VACUUM GAUGE

Pressure/Vacuum Gauges				
AJ496	2.50" Dia.	Pressure	1/4" NPT	0-60 in. H ₂ O and 0-150 mbar
AE133	2.50" Dia.	Pressure	1/4" NPT	0-160 in. H ₂ O and 0-400 mbar
AE133A	2.50" Dia.	Pressure	1/4" NPT	0-200 in. H ₂ O
AJ497	2.50" Dia.	Vacuum	1/4" NPT	0-60 in. H ₂ O and 0-150 mbar
AE134	2.50" Dia.	Vacuum	1/4" NPT	0-160 in. H ₂ O and 0-400 mbar
AE134F	3.50" Dia.	Vacuum	1/4" NPT	0-15 in. HG



PRESSURE – VACUUM RELIEF VALVE

Pressure/Vacuum Relief Valves		
AG258	1.50" NPT	Adjustable 30-200 in. H ₂ O; 200 cfm max
AJ121D		Silencer for AG258 Relief Valve
AG258F	2.50" NPT	Adjustable 25-200 in. H ₂ O; 560 cfm max
AJ121G		Silencer for AG258F Relief Valve



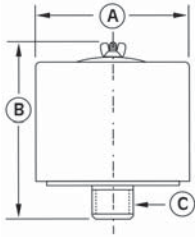
INLINE FILTERS (FOR VACUUM)

The impeller of a blower passes very closely to the housing. It is recommended to have an inlet or in-line filter to ensure a trouble-free service life.

MPT = Male Pipe Thread
FPT = Female Pipe Thread

Model Number	R1	R2	R3	R4	SDR4, R4P, R4H, R5	SDR5, SDR6, R6, R6P, R7M	R6PP, SDR6P, R6PS, R7, R7S	R7S, R9, R9P, R9S
Part Number	AJ151A	AJ151B	AJ151C	AJ151D	AJ151E	AJ151G	AJ151H	AJ151M
Dimension (A)	5.88"	7.38"	7.38"	7.38"	8.75"	8.75"	14.00"	18.50"
Dimension (A1)	—	—	—	—	—	—	16.25"	20.75"
Dimension (B)	4.50"	6.81"	6.81"	6.81"	10.25"	10.50"	27.13"	28.13"
Dimension (C)	2.75"	4.62"	4.62"	4.62"	5.00"	5.50"	18.50"	19.50"
Dimension (D)	1.00" FPT	1.00" FPT	1.25" FPT	1.50" FPT	2.00" FPT	2.50" FPT	3"MPT	5" MPT
Dimension (E)	1.00" FPT	1.00" FPT	1.25" FPT	1.50" FPT	2.00" FPT	2.50" FPT	3"MPT	5" MPT
Replacement Element	AJ135D	AJ135E	AJ135E	AJ135E	AJ135F	AJ135G	AJ135C	AJ135H
Micron	10	10	10	10	10	10	10	10

RECOMMENDED ACCESSORIES

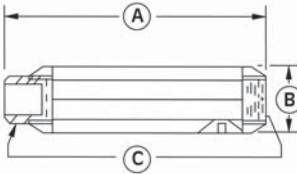


INLET FILTERS (FOR PRESSURE)

All filters are heavy duty for high-particulate service. Inlet filters for Regenair blowers are drip-proof when mounted as shown..

MPT = Male Pipe Thread
FPT = Female Pipe Thread

Model Number	R1, R2	R3	R4, R4H, R4P SDR4, R5	SDR5, R6, SDR6, R5P, R6PP, R6PS	SDR6P, R7, R7P, R7S	R9, R9P, R9S
Part Number	AJ126B	AJ126C	AJ126D	AJ126F	AJ126G	AJ126M
Dimension (A)	6.00"	6.00"	7.70"	10.62"	10.00"	16.00"
Dimension (B)	4.62"	7.12"	7.12"	4.81"	13.12"	14.62"
Dimension (C)	1.00" MPT	1.25" MPT	1.50" MPT	2.00" FPT	2.50" MPT	5" MPT
Replacement Element	AJ134B	AJ134C	AJ134E	AG340	AJ135A	AJ135H
Micron	10	10	10	10	10	10



MUFFLERS

Designed to reduce noise by up to 5 dbA and remove high-frequency sound associated with all blowers.

Model Number	R1, R2	R3	R4, SDR4, R4P, R5	R4H, R6, R6P, R6PS SDR6P, SDR6	R7, R7S	R6PP, R9 Exhaust	R7P Exhaust
Part Number	AJ121B	AJ121C	AJ121D	AJ121F	AJ121G	AJ121H	AJ121M
Dimension (A)	7.46"	7.94"	12.75"	17.05"	17.44"	20.30"	33.60"
Dimension (B)	2.38"	2.62"	3.25"	3.63"	4.25"	4.75"	6.00"
Dimension (C)	1.00" NPT	1.25" NPT	1.50" NPT	2.00" NPT	2.50" NPT	3" NPT	4"NPT

PARTS & ORDERING INFORMATION

Please reference the exploded view on Page 11 for the following model and parts table.

REF#	ITEM	QTY	R1102 R1102C R1102K	R2103 R2303A	R2105	R2305B	R3105-1 R3305A-1 R3305B-1
1	COVER	1	AJ101A	AJ101B	AJ101B	AJ101B	AJ101C
2	LOCK NUT	1	BC187	BC187	BC181	BC181	BC181
3	IMPELLER	1	AJ102A	AJ102BQ	AJ102B	AJ102B	AJ102C
4	SQUARE KEY	1	AH212C	AH212	AB136A	AB136A	AB136A
5	SHIM SPACER	Δ	AE686-5	AE686-3	AJ109	AE686-3	AJ109
6	RETAINING RING	1	AJ145	AJ145	AJ149	AJ145	AJ149
7	HOUSING	1	AJ103A	AJ103BQ	AJ103B	AJ103B	AJ103C
8	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—
10A	FOAM	Δ	AJ112A(4)	AJ112BQ(6)	AJ112BQ(6)	AJ112BQ(6)	AJ112C(4)
10B	FOAM	2	—	—	—	—	AJ112CQ
11	MUFFLER EXTENSION	1	AJ106A	AJ106BQ	AJ106BQ	AJ106BQ	AJ106CQ

Δ As required.

Parts listed are for stock models. For specific OEM models, please consult the factory. When corresponding or ordering parts, please give complete model and serial numbers.

PARTS & ORDERING INFORMATION

Please reference the exploded view on the next page for the following model and parts tables.

REF#	ITEM	QTY	R3105-12 R3305A-13	R4110-2 R4310A-2 R4310B-1	R4P115 R4P315A†	R5125-2 R5325A-2 R5325B-1	R6125-2 R6150J-2 R6325A-2 R6335A-2 R6335B R6350A-2 R6350B-2	R6P335A R6P350A R6P350B	R6135J-10
1	COVER	1	AJ101C	AJ101D	AJ101L	AJ101EQ	AJ101FB	AJ101K	AJ101FB
2	LOCK NUT	1	BC181	BC181	BC181	AJ259	AJ259	AJ259	AJ259
3	IMPELLER	1	AJ102CA	AJ102D	AJ102L	AJ102E	AJ102FR	AJ102K	AJ102FR
4	SQUARE KEY	1	AB136A	AB136D	AB136D	AB136	AB136	AB136	AB136
5	SHIM SPACER	Δ	AJ109	AJ109	AJ109	AJ109	AJ109	AJ109	AJ260A
5†	SHIM SPACER†	1	–	–	AJ109A†	–	–	–	–
6	RETAINING RING	1	AJ149	AJ149	AJ149	–	–	–	–
7	HOUSING	1	AJ103C	AJ103DR	AJ103L	AJ103EQ	AJ103FQ	AJ103K	AJ103FQ
8	MUFFLER BOX	1	–	–	–	–	–	AJ104K	–
9	SPRING	2	–	AJ113DR	AJ113DQ	AJ113DQ	AJ113FQ	AJ113FQ	AJ113FQ
9A	SCREEN	2	–	–	AJ123EQ	AJ123EQ	AJ123FB	–	AJ123FB
10A	FOAM	Δ	AJ112C(4)	AJ112DS(4)	AJ112ER(6)	AJ112ER(6)	AJ112FC(6)	AJ112K(8)	AJ112FC(6)
10B	FOAM	2	AJ112CQ	AJ112DR	–	–	–	–	–
11	MUFFLER EXTENSION	1	AJ106CQ	AJ106DQ	AJ106EQ	AJ106EQ	AJ106FR	–	AJ106FR

REF#	ITEM	QTY	R6P350A	R6P350B	R6P355A	R6PP3110M*	R6PS3110M*	R7100A-3	R7100B-1
1	COVER	1	AJ101K	AJ101K	AJ101KA	AJ101KA(2)	AJ101KA(2)	AJ101G	AJ101G
2	LOCK NUT/BOLT	1	AJ259	AJ259	BB750	BB750(2)	BB750(2)	BB750	BB750
3	IMPELLER	1	AJ102K	AJ102K	AJ102KA	AJ102KA(2)	AJ102KA(2)	AJ102GZ	AJ102GA
4	SQUARE KEY	1	AB136	AB136	AB136	AB136(2)	AB136(2)	AC628	AC628
5	SHIM SPACER	Δ	AJ109	AJ169F	AJ169F	AJ169F	AJ169F	AJ110	AJ110
6	RETAINING RING	1	–	–	–	–	–	–	–
7	HOUSING	1	AJ103K	AJ103K	AJ103KA	AJ103KD(2)	AJ103KD(2)	AJ103GA	AJ103GA
8	MUFFLER BOX	1	AJ104K	AJ104K	AJ104K	–	–	AJ104GA	AJ104GA
8A	SCREEN	2	–	–	–	–	–	AJ998G	AJ998G
9	SPRING	2	AJ113FQ	AJ113FQ	AJ113FQ	–	–	–	–
10A	FOAM	Δ	AJ112K(8)	AJ112K (8)	AJ112K (8)	–	–	AJ112GA(8)	AJ112GA(8)
10B	FOAM	2	–	–	–	–	–	–	–
11	MUFFLER EXTENSION	1	–	–	–	–	–	–	–
12 **	O-RING	2	–	–	–	AJ175	–	–	–
13	GASKET	4	–	–	–	AJ107F	AJ107F	–	–

REF#	ITEM	QTY	R7P3180M*	R7S3180M*	R9P3300M*	R9S3300M*	R93150A
1	COVER	1	AJ101G(2)	AJ101G(2)	AJ101M(2)	AJ101M(2)	AJ101M
2	LOCK NUT/BOLT	1	BB750(2)	BB750(2)	BB707(2)	BB707(2)	BB707
3	IMPELLER	1	AJ102GZ(2)	AJ102GZ(2)	AJ102M(2)	AJ102M(2)	AJ102M
4	SQUARE KEY	1	AC628(2)	AC628(2)	AE130A(2)	AE130A(2)	AE130A
5	SHIM SPACER	Δ	AJ110	AJ110	BJ110	BJ110	BJ110A
6	RETAINING RING	1	–	–	–	–	–
7	HOUSING	1	AJ103GA(2)	AJ103GA(2)	AJ103M(2)	AJ103M(2)	AJ103M
8	MUFFLER BOX	1	–	–	–	–	AJ104MP
8A	SCREEN	2	–	–	–	–	AJ998M
9	SPRING	2	–	–	–	–	–
10A	FOAM	Δ	–	–	–	–	AJ112M(10)
10B	FOAM	2	–	–	–	–	–
11	MUFFLER EXTENSION	1	–	–	–	–	–
12 **	O-RING	2	AJ175G	–	AJ175G	–	–

† R4P315A only.

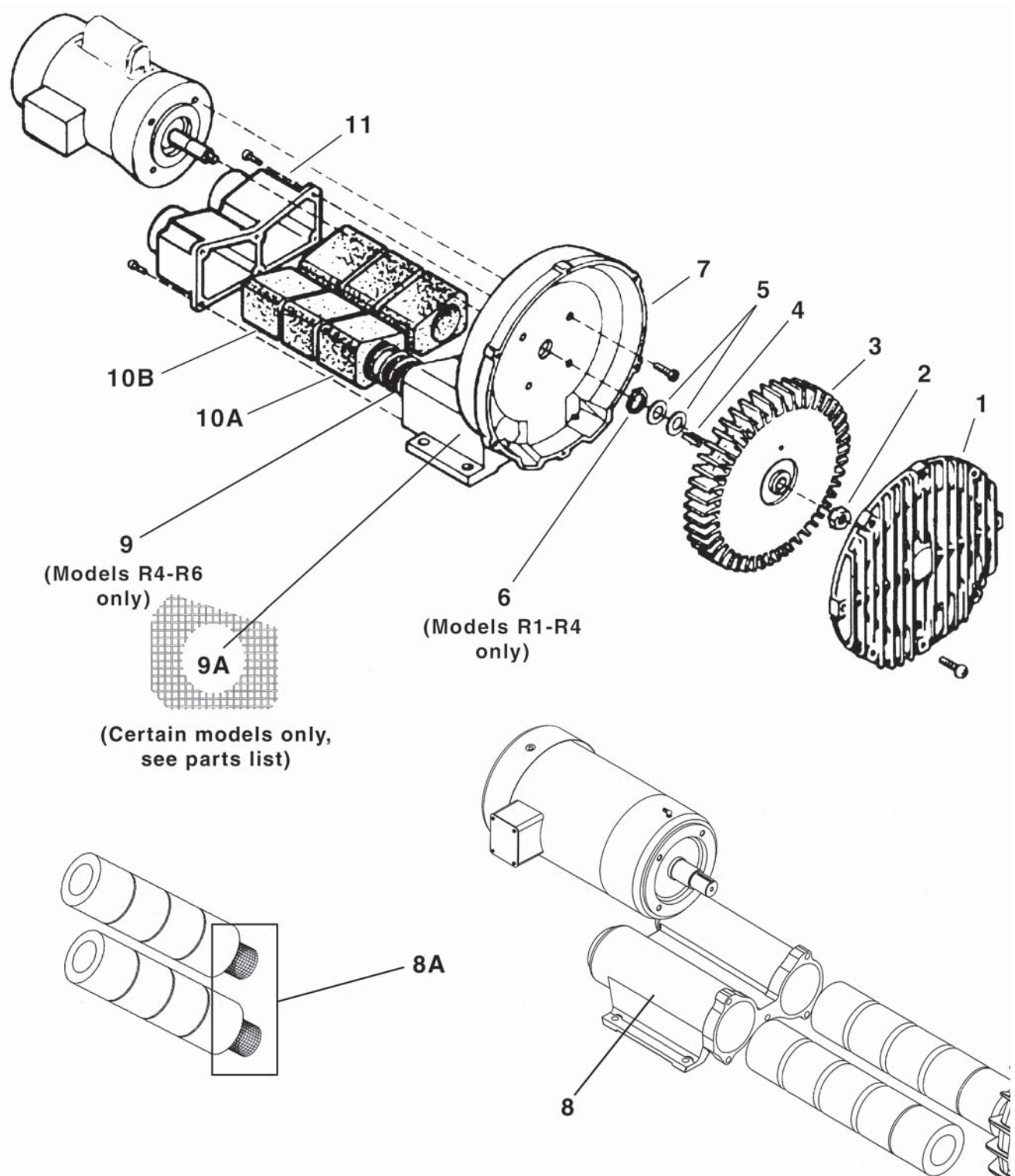
* Dual models.

** Not shown.

Δ As required.

Parts listed are for stock models. For specific OEM models, please consult the factory.
When corresponding or ordering parts, please give complete model and serial numbers.

EXPLODED PRODUCT VIEW



TROUBLESHOOTING CHART

Problem	Reason	Remedy
Increased sound.	Noise absorbing foam is damaged. Impeller rubbing inside.	Replace foam. Send unit to a Gast Authorized Service Facility.
Excessive vibration.	Damaged impeller. Motor and/or impeller are dirty.	Replace impeller. Clean motor and impeller periodically.
Ambient and exhaust temperature increases.	Motor and/or blower are dirty. Filters dirty.	Clean motor and blower periodically. Replace filters.
Decreased inlet air pressure	Inlet air filter is clogged.	Clean inlet filter. Replace cartridge.
Unit is very hot.	Wrong wiring. Low voltage. Inlet air filter is clogged. Motor and/or blower are dirty. Operating at too high a pressure or vacuum.	Check wiring. Supply proper voltage. Clean inlet filter. Replace cartridge. Clean motor and blower periodically. Install a relief valve and pressure or vacuum gauge.
Unusual sound.	Impeller is damaged or dirty. Bearing going bad.	Clean or replace impeller. Send unit to a Gast Authorized Service Facility.
Motor overload	Low voltage.	Check power source. Check wire size and wire connections.
Unit does not start.	Incorrect electrical connection or power source. Impeller is damaged.	Check wiring diagram, circuit fusing and circuit capacity. Clean or replace impeller. Install proper filtration.

We have Gast Certified Service Centers throughout the world. For the most up-to-date listing, contact one of our sales offices below:

Gast Manufacturing, Inc.

P.O. Box 97
2300 S. Highway M139
Benton Harbor, MI 49023-0097
Ph: 269/926-6171
FAX: 269/925-8288
www.gastmfg.com

Gast Hong Kong

Room 6,9/F
New Commerce Centre
19 on Sum Street, Shatin
N. T. Hong Kong
Ph: (852) 2690 1066
Fax: (852) 2690 1012
www.gasthk.com

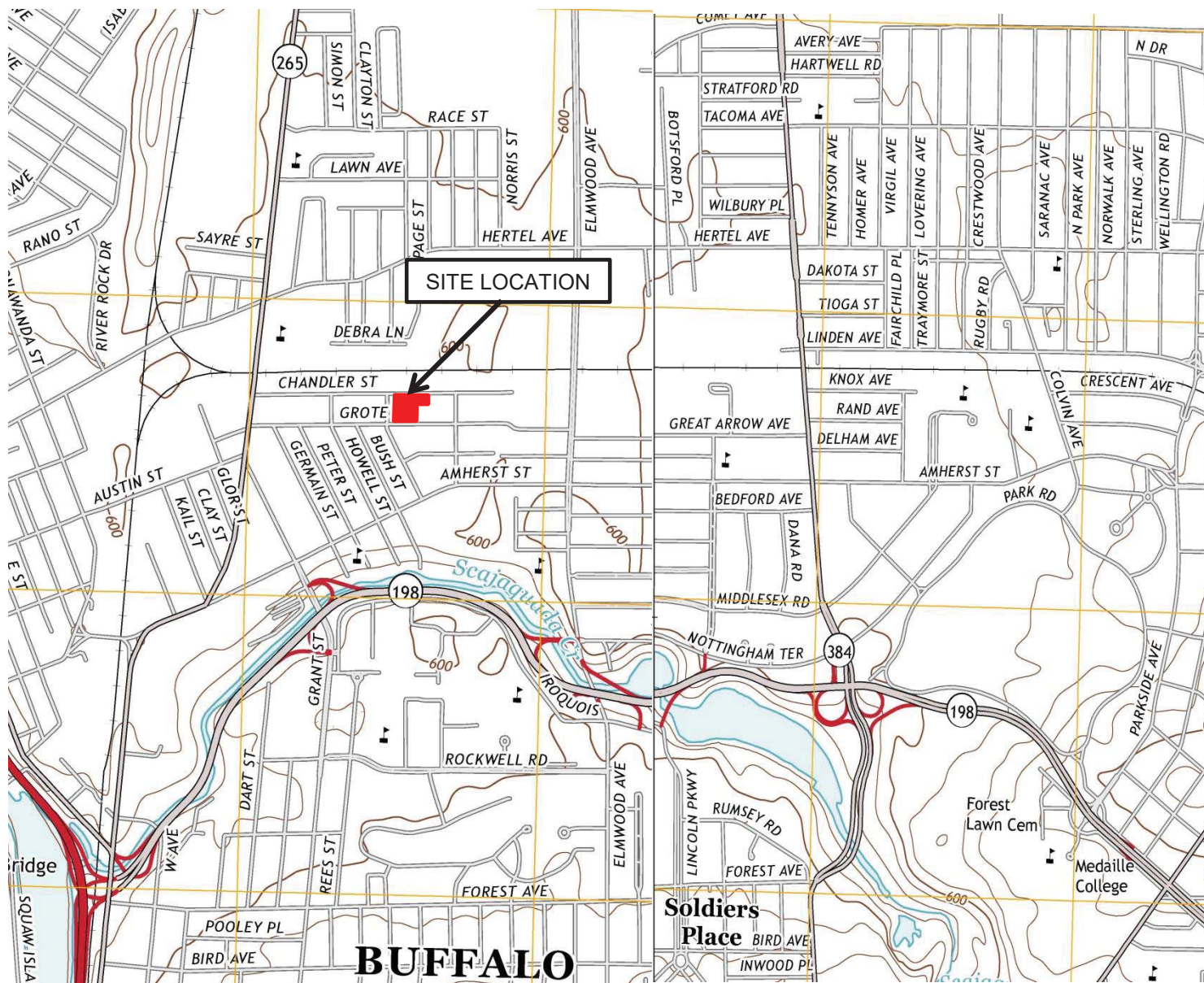
Gast Group Limited, United Kingdom

Unit 11, The I O Centre
Nash Road
Redditch, B98 7AS
United Kingdom
ph: +44 (0) 1527 504040
Fax: +44 (0) 1527 525262
www.gastmfg.com

**ISO 9001 & 14001 CERTIFIED****www.gastmfg.com**

APPENDIX A

FIGURES



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

ENVIRONMENTAL ADVANTAGE, INC.

Regulatory Compliance – Site Investigations – Facility Inspections

SITE LOCATION MAP

155 & 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: MB
CHECKED BY: CMH

SCALE: NOT TO SCALE
DATE: 04/2022

PROJECT: 01101
FIGURE NO: 1



ENVIRONMENTAL ADVANTAGE, INC.

Phase I/II Audits – Site Investigations – Facility Inspections

BCP BOUNDARY LIMITS

155 and 157 CHANDLER STREET
BUFFALO, NEW YORK

R & M LEASING LLC
BUFFALO, NEW YORK

DRAWN BY: LSP

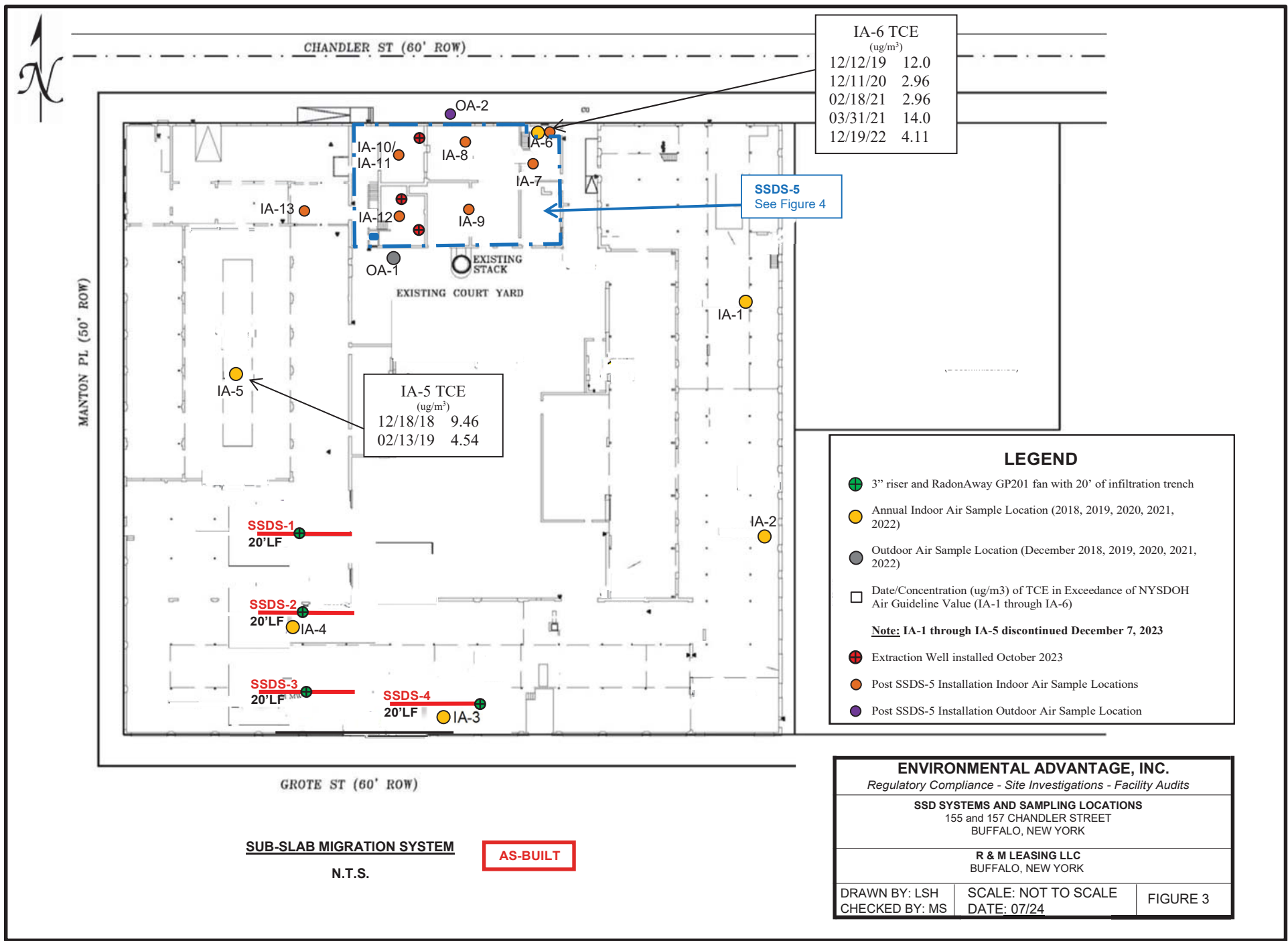
SCALE: NOT TO SCALE

PROJECT: 01101

CHECKED BY: MS

DATE: 06/2024

FIGURE NO: 2



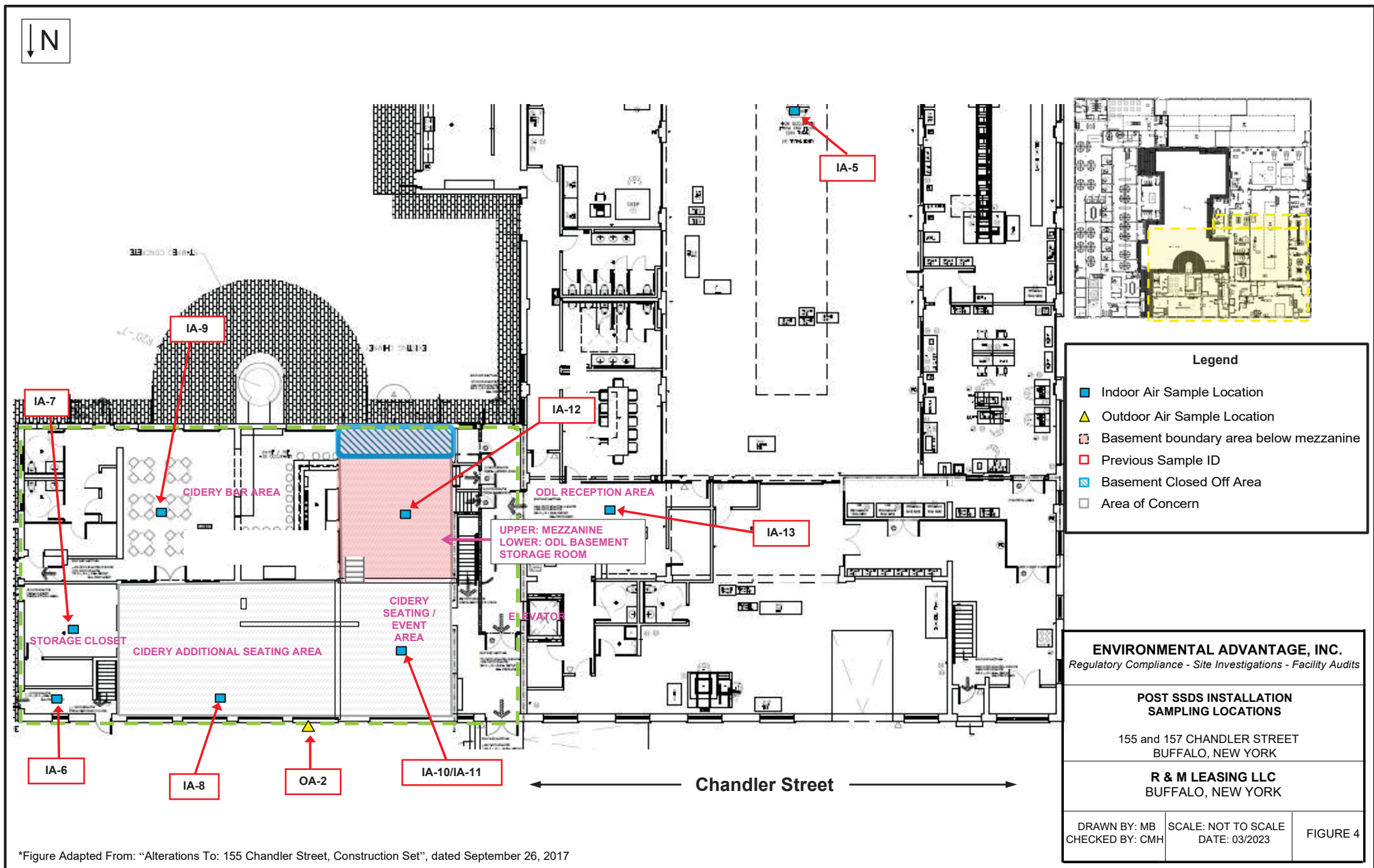
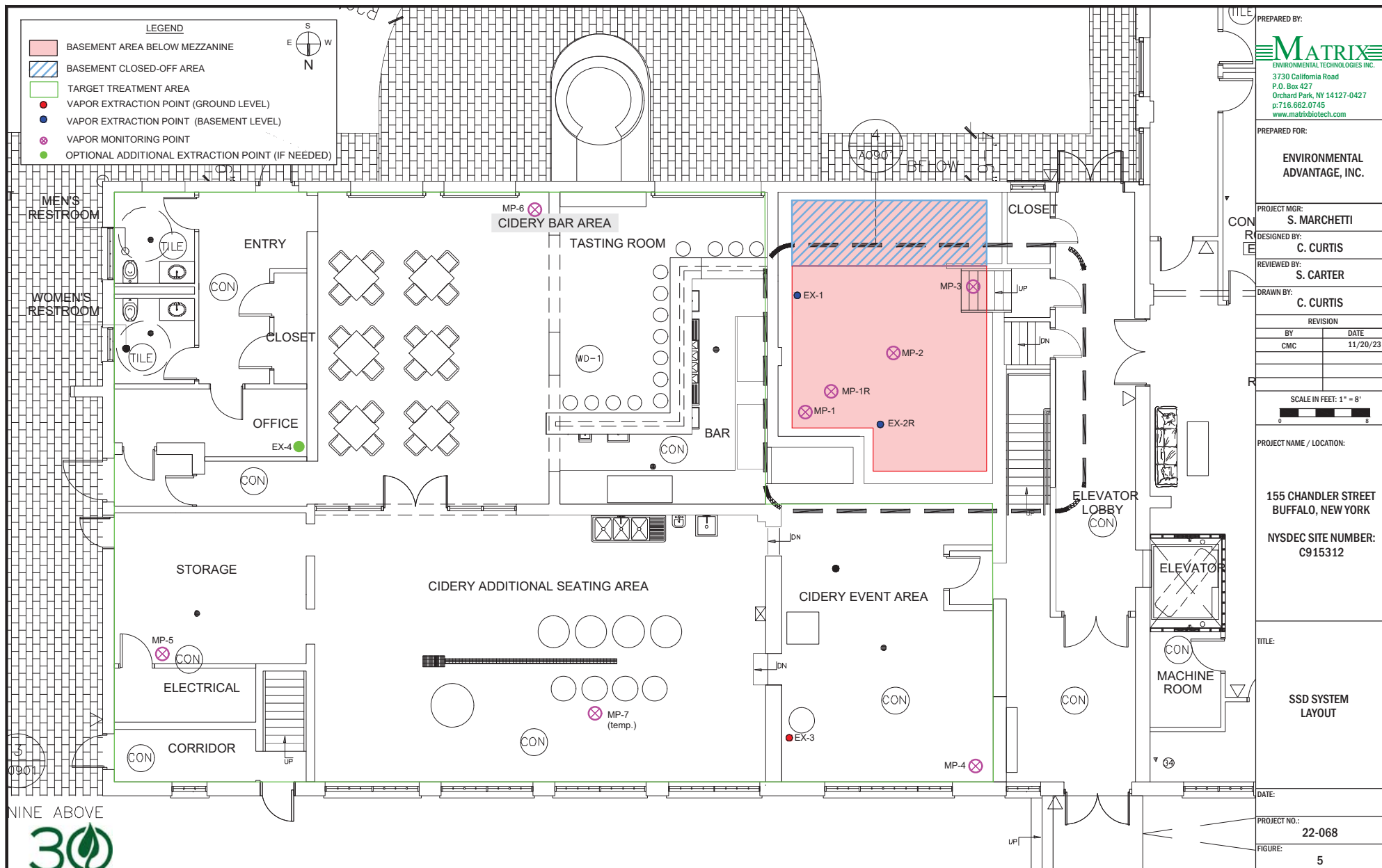


*Figure Adapted From: "Alterations To: 155 Chandler Street, Construction Set", dated September 26, 2017



APPENDIX B

SITE-WIDE INSPECTIONS AND FIELD NOTES

Site-Wide Inspection Form

Site: 155 Chandler Street Buffalo, NY

Date: 01/09/2024

Inspector: Collin Snyder & Rylee Hooker

Weather: 44° High Wind Rain

General site conditions at the time of the inspection: Normal operations taking place in ODL. The rest of the facilities were not operating at the time of the inspection.

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

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

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

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

Are the implemented Engineering Controls (SSDS) operating in compliance with the requirements of the SMP? Yes.

SSDS Pressure Differential Readings:

SSDS-1: 1.0"

SSDS-2: 1.0"

SSDS-3: 1.5"

SSDS-4: 1.0"

Deficiencies Observed / Corrective Actions Required: No deficiencies observed, and no corrective actions required.

Any Cracking/Deterioration Noted near Extraction Wells: Any visible cracking had already been repaired. No new cracking was observed.

Notes: The Cover around SSDS-3 is covered in carpet.

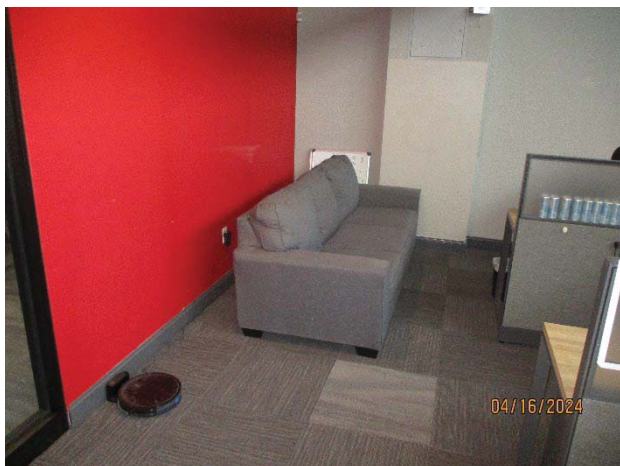
Implemented Institutional Controls:

1. The property may only be used for restricted residential, commercial, and/or industrial use;
2. The use of groundwater is prohibited;
3. Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
4. All activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
5. Access to the site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and
6. Vegetable gardens and farming are prohibited at the property;

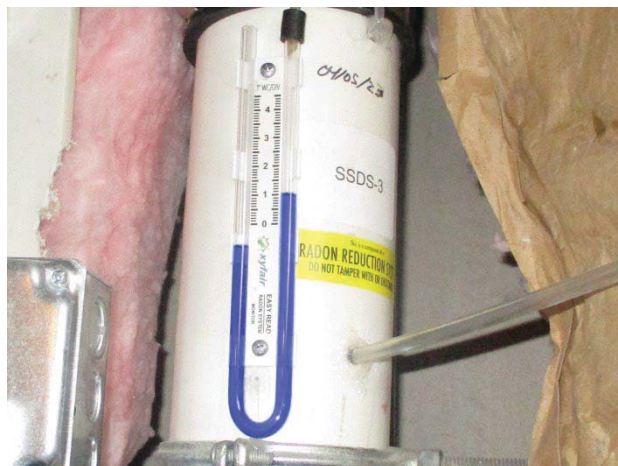
Implemented Engineering Controls

1. Sub-Slab Depressurization System

	
1. View of SSDS #1 Manometer Enclosure.	2. 04/16/24 – View of SSDS #1 Manometer reading.
	
3. View of SSDS #2 Manometer Enclosure.	4. View of SSDS #2 Manometer Enclosure and cover around SSDS #2.
	
5. 04/16/24 – View of SSDS #2 Manometer reading.	6. View of SSDS #3 Manometer Enclosure.



7. View of SSDS #3 Manometer Enclosure.



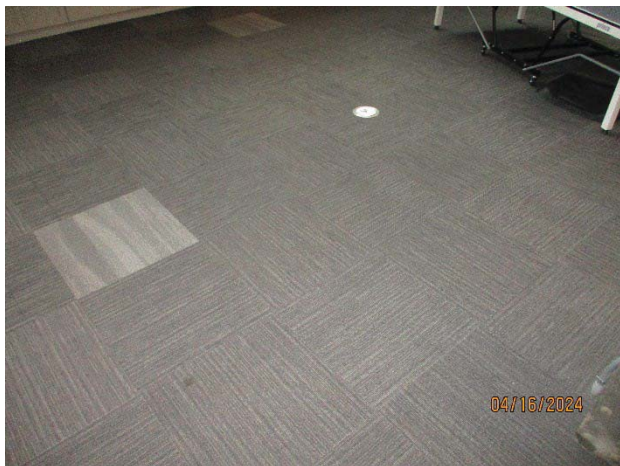
8. 04/16/24 - View of SSDS-3 Manometer reading



9. View of SSDS #4 (not enclosed).



10. View of the cover around SSDS #1 facing east.



11. View of the cover around SSDS #3 facing northwest.



12. View of the cover around SSDS #4 facing east.

Soil Vapor Intrusion - Structure Sampling Building Questionnaire

Structure ID : _____

Site No.: C915312

Site Name : _____

Date: 01/09/24

Time: _____

Structure Address : 155 Chandler St, Buffalo, NYPreparer's Name & Affiliation : Rylee Hooker, Environmental ConsultantResidential ? ☐ Yes ☐ No Owner Occupied ? ☐ Yes ☐ No Owner Interviewed ? ☐ Yes ☐ NoCommercial ? ☐ Yes ☐ No Industrial ? ☐ Yes ☐ No Mixed Uses ? ☒ Yes ☐ NoIdentify all non-residential use(s): UTILANT (computer software), Barrel & Brine (restaurant), Buffalo Cider Hall, ODL Orthodontic Lab, LossControl 360

Owner Name : _____ Owner Phone : () _____ - _____

Secondary Owner Phone : () _____ - _____

Owner Address (if different) : _____

Occupant Name : _____ Occupant Phone : () _____ - _____

Secondary Occupant Phone : () _____ - _____

Number & Age of All Persons Residing at this Location : _____

Additional Owner/Occupant Information : _____

Describe Structure (style, number floors, size) : Refurbished industrial use space into mixed use site. 1-2 stories, brick exterior, flat rubber membraneApproximate Year Built : early 1900s Is the building Insulated? ☒ Yes ☐ NoLowest level : ☐ Slab-on-grade ☒ Basement ☐ CrawlspaceDescribe Lowest Level (finishing, use, time spent in space) : Small (15-20') basement room used to store equipment, finished concrete floor w/ floor drainFloor 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 drains throughoutIdentify other floor penetrations & details : NONEWall Construction : ☒ Concrete Block ☐ Poured Concrete ☐ Laid-Up StoneIdentify any wall penetrations : overhead garage doors

Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc.) : _____

Heating Fuel : ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other : _____Heating System : ☒ Forced Air ☐ Hot Water ☐ Other : _____Hot Water System : ☒ Combustion ☐ Electric ☐ Boilermate ☐ Other : _____Clothes Dryer : ☐ Electric ☐ Gas Where is dryer vented to? N/AIf combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.) : roof top

HVAC units, cold air is drawn in from exterior

Fans & Vents (identify where fans/vents pull air from and where they vent/exhaust to) : positive vents

are installed near "IA-6" location

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

ODL 3D - prints using DPR-10 carbon resin (enclosed in hoods w/ducts)

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 : _____

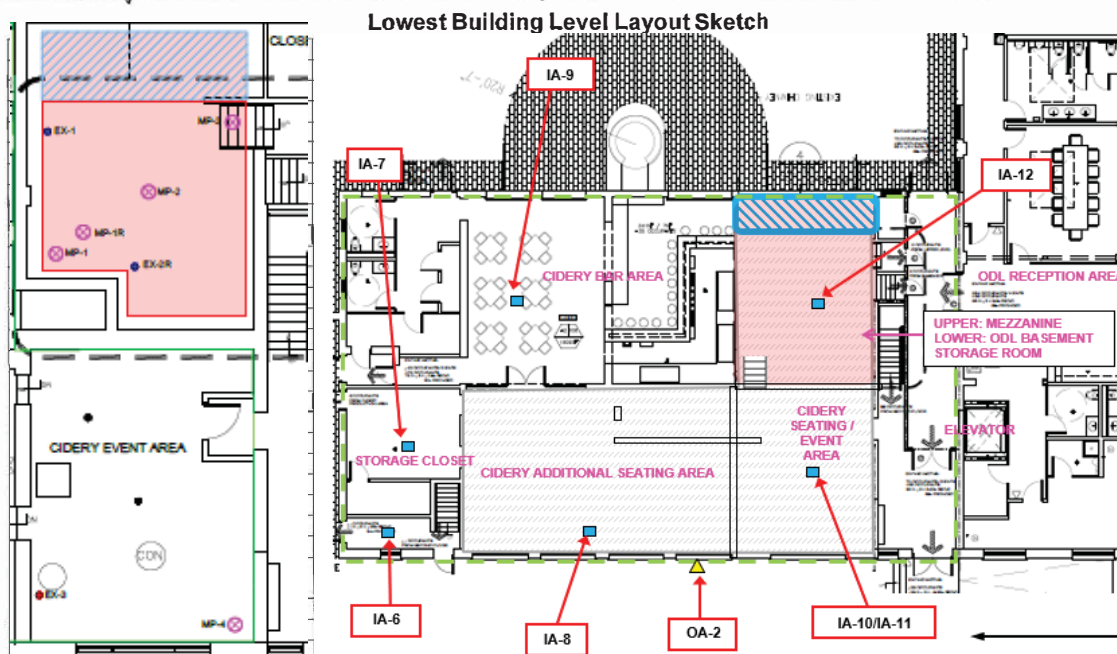
Last time Dry Cleaned fabrics brought in ? NIA What / Where ? _____

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

SSDS system installed in 2017, updated SSDS installed 2024



- 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.

Page ____ of ____

Date: _____

Structure ID: C915315

Phone Number:

Date of PID Calibration:

Identify any Changes from Original Building Questionnaire : _____

[illegible]



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandles St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hookes, Collin Snyder

Sample Identification: IA - Co

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

Date of Collection: 01/09/24 Setup Time: 8:19 Stop Time: 4:21

Sample Depth: N/A

Sample Height: 6'6

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 121 Regulator # 01930

Vacuum Pressure of Canister Prior to Sampling: -29.43

Vacuum Pressure of Canister After Sampling: -1.86

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hookes

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker, Collin Snyder

Sample Identification: -IA - 6 duplicate

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

Date of Collection: 01/09/24 Setup Time: 8:18 Stop Time: 4:22

Sample Depth: N/A

Sample Height: 6'6"

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 3239 Regulator # 01515

Vacuum Pressure of Canister Prior to Sampling: -29.91

Vacuum Pressure of Canister After Sampling: -1.06

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker + Collin Snyder

Sample Identification: IA-7

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

Date of Collection: 01/09/24 Setup Time: 8:22 Stop Time: 4:16

Sample Depth: N/A

Sample Height: 6'5

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # B5 Regulator # 01073

Vacuum Pressure of Canister Prior to Sampling: -29.50

Vacuum Pressure of Canister After Sampling: -2.00

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker, Collin Snyder

Sample Identification: IA-8

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

Date of Collection: 01/01/24 Setup Time: 8:24 Stop Time: 4:15

Sample Depth: N/A

Sample Height: 5'0

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 2081 Regulator # 02152

Vacuum Pressure of Canister Prior to Sampling: -24.33

Vacuum Pressure of Canister After Sampling: -2.46

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker, Collin Snyder

Sample Identification: IA-a

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

Date of Collection: 01/09/24 Setup Time: 8:27 Stop Time: 4:16

Sample Depth: N/A

Sample Height: 5'3

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 2767 Regulator # 01892

Vacuum Pressure of Canister Prior to Sampling: -29.42

Vacuum Pressure of Canister After Sampling: -2.27

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker, Collin Snyder

Sample Identification: IA-10 / IA-11

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

Date of Collection: 01/09/24 Setup Time: 8:34 Stop Time: 4:18

Sample Depth: N/A

Sample Height: 5'

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 3208 Regulator # 02062

Vacuum Pressure of Canister Prior to Sampling: -29.49

Vacuum Pressure of Canister After Sampling: -12.92

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Rylee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Ryilee Hooker, Collin Snyder

Sample Identification: IA-12

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

Date of Collection: 01/09/24 Setup Time: 8:12 Stop Time: 4:36

Sample Depth: N/A

Sample Height: 5.5'

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 2433 Regulator # 01633

Vacuum Pressure of Canister Prior to Sampling: -29.62

Vacuum Pressure of Canister After Sampling: -3.70

Temperature in Sampling Zone: 68°F

Apparent Moisture Content of Sampling Zone: little moisture

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:

Sampler's Signature Ryilee Hooker

Date: 1/9/24



AIR/VAPOR SAMPLING FIELD DATA SHEET

Client: Rocco Termini

Project No.: 01101

Site Name & Address: 155 Chandler St, Buffalo, NY 14207

Person(s) Performing Sampling: Rylee Hooker, Collin Snyder

Sample Identification: OA-2

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

Date of Collection: 01/09/24 Setup Time: 8:43 Stop Time: 4:13

Sample Depth: N/A

Sample Height: 4'6"

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

Purge Volume: N/A

Sample Volume: 2.7 L

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

Canister # 3180 Regulator # 02215

Vacuum Pressure of Canister Prior to Sampling: -29.38

Vacuum Pressure of Canister After Sampling: -5.78

Temperature in Sampling Zone: 48°F

Apparent Moisture Content of Sampling Zone: very rainy

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:
tipped over and fell off ledge from wind
Canister was left in box for stability

Sampler's Signature Rylee Hooker

Date: 1/9/24

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: Matrix
Date of Inspection: 01-08-2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
31	31	30

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	-0.001	-5.979	-24.00	- 0.334	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
35	NR	NR

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: Collin Snyder

Date of Inspection: 03-05-2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
22.86	23.47	21.37

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	0.000	-4.424	-16.54	-0.255	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
31	0.4	1.7

Notes:

Ambient PID 0.2-0.4 in blower closet Post carbon PID stabilized at 0.0 ppm.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder

Date of Inspection: 06/11/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
21.13	21.62	19.88

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
0.000	0.112	-4.964	-15.75	-0.198	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
26	0.0	0.0

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 06/18/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
20.47	20.89	19.05

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.012	-0.126	-5.007	-15.69	-0.209	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.0	0.0

Notes: Pressure in MP-1 slowly rose once monometer was attached.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 06/25/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
20.64	21.05	19.18

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.021	-0.108	-5.110	-15.89	-0.210	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.0	0.1

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 07/02/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
51.94	52.85	48.33

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.013	-0.108	-5.515	-16.12	-0.207	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.9	0.3

Notes:

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

155 Chandler Street, Buffalo, NY (Site #C915312)
Sub-Slab Depressurization System (SSDS) Monitoring

EA Representative: C. Snyder
Date of Inspection: 7/9/2024

Extraction Well Vacuum Data (in. WC)		
EX-1	EX-2R	EX-3
51.62	52.75	43.11

Monitoring Point Vacuum Data (inches of Water Column)						
MP-1	MP-1R	MP-2	MP-3	MP-4	MP-5	MP-6
-0.044	-02.11	-13.00	-40.21	-0.504	0.000	0.000

Blower Operational Data		
Blower Vacuum (in. WC)	Pre-carbon OVM Reading (ppm)	Post-carbon OVM Reading (ppm)
25	0.6	0.8

Notes: Pre/Post Carbon samples taken.

System operational status, repairs or maintenance performed, samples collected, adjustments to manifold settings, etc.

APPENDIX C

TABLES

Analytical Testing Results IA-1, IA-2, IA-3,
155 & 157 Chandler Street, Buffalo, NY
December 2018 through December 2022

	Guidance Values - Indoor Air																				
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Matrix Value	NYSDOH AI Guideline Value	I-A-1 Indoor AI	I-A-1 (I21219) Indoor AI	I-A-1 (I21219) Duplicate Indoor AI	I-A-1 (I21120) Indoor AI	I-A-1 (I20221) Indoor AI	I-A-1 (I21202) Indoor AI	I-A-2 Indoor AI	I-A-2 (I21219) Indoor AI	I-A-2 (I21120) Indoor AI	I-A-2 (I20221) Indoor AI	I-A-2 (I21202) Indoor AI	I-A-3 Indoor AI	I-A-3 (I21219) Indoor AI	I-A-3 (I21120) Indoor AI	I-A-3 (I21120) Duplicate Indoor AI	I-A-3 (I20221) Indoor AI	I-A-3 (I21202) Indoor AI	I-A-3 (I21202) Duplicate Indoor AI
LOCATION				I-18 Indoor AI	I-12 (I21219) Indoor AI	I-A-1 (I21219) Duplicate Indoor AI	I-A-1 (I21120) Indoor AI	I-A-1 (I20221) Indoor AI	I-A-1 (I21202) Indoor AI	I-A-2 Indoor AI	I-A-2 (I21219) Indoor AI	I-A-2 (I21120) Indoor AI	I-A-2 (I20221) Indoor AI	I-A-2 (I21202) Indoor AI	I-A-3 Indoor AI	I-A-3 (I21219) Indoor AI	I-A-3 (I21120) Indoor AI	I-A-3 (I21120) Duplicate Indoor AI	I-A-3 (I20221) Indoor AI	I-A-3 (I21202) Indoor AI	I-A-3 (I21202) Duplicate Indoor AI
SAMPLING DATE				12/18/2018	12/12/2019	12/12/2019	12/11/2020	12/22/2021	12/19/2022	12/18/2018	12/12/2019	12/11/2020	12/22/2021	12/19/2022	12/18/2018	12/12/2019	12/11/2020	12/22/2021	12/19/2022	12/18/2018	12/12/2019
LAS SAMPLE ID				L18S2191-08	L19S5919-06	L19S5919-07	L20S5692-06	L2166417-09	L2271489-01	L18S2191-07	L19S5919-08	L20S5692-07	L2166417-10	L2271489-02	L18S2191-02	L19S5919-04	L20S5692-03	L2166417-04	L2271489-03	L2166417-04	L2271489-04
Volatile Organics in Air (ug/m³)																					
1,1,1-Trichloroethane*	20.6	10	NV	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
1,4-Dioxane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	0.782	ND	0.782	ND	ND	ND	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	12	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.28	ND	1.58	ND	ND	ND
Acetone	98.9	NV	NV	14.4	11.9	11.8 J	8.46 J	15.7	9.74	14.6	12.4	7.98 J	17.6	20.2	21.1	13.3	8.29 J	11.7 J	113	176	162
Benzene	0.64	NV	NV	0.744	0.684	0.824 J	0.684	0.744	0.684	0.744	0.684	0.744	0.684	0.744	0.684	0.744	0.684	0.744	0.684	0.744	0.684
Carbon disulfide	<2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.92	2.24	1.35	1.36	1.94	1.42
Carbon tetrachloride*	<1.3	1	NV	0.591	0.579	0.572 J	0.522	0.579	0.667	0.566	0.598	0.516	0.554	0.61	0.541	0.491	0.428	0.463	0.434	0.591	0.572
Chloroform	1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.83
Chlorobenzene	3.17	NV	NV	1.29	1.19	1.19	1.07	1.16	0.952	1.14	1.22	1.06	1.01	1.01	1.18	1.07	1.14	1.08	1.02	1.01	1.02
cis-1,2-Dichloroethene*	<1.9	1	NV	ND	ND	ND	ND	ND	ND	ND	ND	0.186	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	16.5	NV	NV	1.63	2.59	2.59 J	2.20	2.78	2.49	1.68	2.70	2.12	2.82	2.55	2.4	2.58	2.02	2.06	2.51	2.47	2.43
n-Hexane	210	NV	NV	268	352 J	352 J	230	324	292	268	352	215	292	268	215	268	215	268	215	268	215
Ethyl acetate	5.4	NV	NV	ND	6.85	7.03 J	6.45	ND	ND	9.30	7.30	7.24	ND	ND	26.5	23.1	188	284	100	49.7	40.4
Ethylbenzene	5.7	NV	NV	2.49	0.869	0.873 J	1.02	ND	ND	2.32	0.877	1.33	ND	ND	2.76	ND	ND	ND	ND	ND	ND
Isopentane	2.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropanol	250	NV	NV	11.9	3.52	3.39 J	6.02	20.5	4.99	11.3	3.17	6.00	32	3.83	32.4	2.65	6.83	9.88	578 R1	134	118
Methylene chloride	10	10	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.25
n-Heptane	10.2	NV	NV	ND	0.888	0.962 J	1.34	ND	ND	ND	1.01	1.32	ND	ND	0.811	ND	ND	ND	0.754	ND	ND
n-Xylene	7.9	NV	NV	1.22	1.29 J	1.33	ND	ND	ND	1.22	1.47	0.943	0.86	ND	ND	0.88	ND	ND	0.951	ND	ND
p,m-Xylene	22.2	NV	NV	9.56	3.36	3.33 J	4.34	ND	ND	9.38	3.32	4.18	2.21	ND	10.6	1.74	2.30	2.82	2.45	ND	ND
Tetrachloroethene*	15.9	10	30	0.753	0.651	0.387 J	0.427	ND	0.387	0.685	0.346	1.00	ND	0.332	0.332	0.488	ND	ND	ND	ND	
Tetrahydrofuran	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	43	NV	NV	4.07	1.53	1.76 J	1.49	ND	ND	1.21	1.57	1.43	1.07	ND	1.16	1.38	1.41	1.58	0.946	ND	ND
trans-1,2-Dichloroethene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triethylamine	4.2	1	0.849	0.844	0.833	0.730	0.713	0.730	0.730	0.836	0.742	0.801	0.730	0.887	0.480	0.780	0.445	0.565	0.271	0.183	0.183
Trichlorofluoromethane	18.1	NV	NV	1.33	1.25	1.29 J	1.19	1.33	1.35	1.3	1.29	1.15	1.33	1.24	1.12	1.27	1.15	ND	1.33	1.20	1.18
Vinyl chloride*	<1.9	0.2	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[illegible]

1. Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
2. Analytical testing for VOCs via TO-15 completed by Alpha Laboratories. * = 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 Sulfur Vapor Intrusion in the State of New York" dated October 2006, prepared by New York State Department of Health. Updated September 2013 and August 2015.
7. Green shaded values represent exceedance of table C2 guideline values; yellow shaded values represents exceedance of NYSDOH Air Guideline Values; bolded values represent exceedance of NYSDOH Matrix Guidelnes.
8. 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.
ND = Non Detected; NV = No Value; RI = Analytical results are from sample re-analysis.
9. Red values represent updated values based on data validation.

Table 2
Indoor Air Analytical Testing Results Comparison
155 & 157 Chandler Street, Buffalo, NY
January 2024 Annual Sample

LOCATION	Guidance Values - Indoor Air										Guidance Values - Outdoor Air		
	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Matrix Value	NYSDOH Air Guideline Value	IA-6	IA-6 Duplicate	IA-7	IA-8	IA-9	IA-10/IA-11	IA-12	OA-2	Table C2 Outdoor Air Guidance Values (90%)	NYSDOH Air Guideline Value
	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024	1/9/2024
LAB SAMPLE ID	L2401917-02	L2401917-03	L2401917-04	L2401917-05	L2401917-06	L2401917-07	L2401917-08	L2401917-09	L2401917-10	L2401917-11	L2401917-12	L2401917-13	L2401917-14
Volatile Organics in Air (ug/m³)													
1,1,1-Trichloroethane*	20.6	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	2.6	NV
1,1,2,2-Tetrachloroethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
1,1,2-Trichloroethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV
1,1-Dichloroethane	<0.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.6	NV
1,1-Dichloroethene*	<1.4	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.4	NV
1,2,4-Trichlorobenzene*	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<6.4	NV
1,2,4-Trimethylbenzene	9.5	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	5.8	NV
1,2-Dibromoethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV
1,2-Dichlorobenzene	<1.2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.2	NV
1,2-Dichloroethane	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.8	NV
1,2-Dichloropropane	<1.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV
1,3,5-Trimethylbenzene	3.7	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	2.7	NV
1,3-butadiene	<3.0	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<3.4	NV
1,3-Dichlorobenzene	<2.4	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<2.2	NV
1,4-Dichlorobenzene	5.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.2	NV
1,4-Dioxane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
2,2,4-trimethylpentane	NV	10	NV	3.69	4.01	ND	ND	ND	ND	ND	ND	NV	NV
2-Butanone (Methyl Ethyl Ketone)	12	NV	NV	ND	1.59	1.63	1.81	ND	2	3.07	ND	11.3	NV
2-Hexanone (Methyl Butyl Ketone)	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
3-Chloropropene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
4-Ethyltoluene	3.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	3.0	NV
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.9	NV
Acetone	98.9	NV	NV	8.48	13.9	11.4	8.36	7.82	9.55	15.5	8.81	43.7	NV
Benzene	9.4	10	NV	1.08	1.17	ND	ND	ND	0.668	ND	ND	6.6	NV
Benzyl chloride	<6.8	NV	NV	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	<6.4	NV
Bromodichloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Bromoform	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Bromomethane	<1.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV
Carbon disulfide	4.2	NV	NV	ND	ND	ND	ND	1.09	ND	ND	ND	3.7	NV
Carbon tetrachloride*	<1.3	1	NV	0.478	0.478	0.522	0.516	0.516	0.572	0.554	0.497	0.7	NV
Chlorobenzene	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<0.8	NV
Chloroethane	<1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.2	NV
Chloroform	1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	0.6	NV
Chloromethane	3.7	NV	NV	1.18	1.33	1.26	1.2	1.18	1.2	1.28	1.21	3.7	NV
cis-1,2-Dichloroethene*	<1.9	1	NV	ND	ND	ND	ND	0.139	ND	ND	ND	<1.8	NV
cis-1,3-Dichloropropene	<2.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<2.2	NV
Cyclohexane	NV	NV	NV	1.87 J	2.18 J	ND J	ND J	ND J	ND J	ND J	ND J	NV	NV
Dibromodichloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Dichlorodifluoromethane	16.5	NV	NV	2.47	2.52	2.58	2.6	2.64	2.68	2.64	2.53	8.1	NV
Ethanol	210	NV	NV	54.8	65	73.7	82.5	96.3	72.9	86.7	ND	57	NV
Ethyl acetate	5.4	NV	NV	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	1.5	NV
Ethylbenzene	5.7	10	NV	1.04	1.16	ND	ND	ND	ND	ND	ND	3.5	NV
Freon 113	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Freon 114	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Heptane	NV	20	NV	3.59	4.04	ND	ND	ND	ND	1.44	ND	NV	NV
Hexachlorobutadiene	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<6.4	NV
Isopropanol	250	NV	NV	9.41	9.51	12.6	14.8	13.4	15.7	39.6	ND	16.5	NV
Methyl tert-butyl ether	11.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	6.2	NV
Methylene chloride	10	10	60	ND	ND	ND	ND	ND	ND	ND	ND	6.1	60
n-Hexane	10.2	20	NV	3.77	4.19	ND	ND	ND	0.892	ND	ND	6.4	NV
Naphthalene	5.1	10	NV	NT	NT	NT	NT	NT	NT	NT	NT	4.9	NV
o-Xylene	7.9	10	NV	1.35	1.53	ND	ND	ND	ND	ND	ND	4.6	NV
p/m-Xylene	22.2	20	NV	3.73	4.11	ND	ND	ND	ND	ND	ND	12.8	NV
Styrene	1.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	1.3	NV
Tertiary butyl Alcohol	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Tetrachloroethene*	15.9	10	30	0.224	0.292	0.271	0.271	0.373	0.739	0.264	0.224	6.5	30
Tetrahydrofuran	NV	NV	NV	1.53	1.73	2.91	3.24	2.59	3.8	4.84	ND	NV	NV
Toluene	43	50	NV	8.25	9.08	1.81	1.31	1.21	1.93	1.41	1.27	33.7	NV
trans-1,2-Dichloroethene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
trans-1,3-Dichloropropene	<1.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.4	NV
Trichloroethene*	4.2	1	2	0.382	0.398	0.747	0.908	0.828	1.14	1.56	ND	1.3	2
Trichlorofluoromethane	18.1	NV	NV	1.39	1.45	1.43	1.43	1.43	1.45	1.44	1.42	4.3	NV
Vinyl Bromide	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV
Vinyl chloride*	<1.9	0.2	NV	ND	ND	ND	ND	ND	ND	ND	ND	<1.8	NV

Notes:

- Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report.
- Analytical testing for VOCs via TO-15 completed by Alpha Laboratories. * = samples analyzed for volatile organics in air by SIM.
- Results present in ug/m³ or microgram per cubic meter.
- Samples were collected during a 8-hour sample duration.
- 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.
- Air Guideline 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. Updated September 2013 and August 2015.
- Green shaded values represent exceedance of table C2 guidance values; yellow shaded values represent exceedance of NYSDOH Air Guideline Values; bolded values represent exceedance of NYSDOH Matrix Guidelines.
- 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.
- ND = Non Detect; NV = No Value; NT = Not Tested; R1 = Analytical results are from sample re-analysis.
- Red values represent updated values based on data validation.

Table 3
Indoor Air Analytical Testing Results IA-6
155 & 157 Chandler Street, Buffalo, NY
December 2018 through January 2024

		Guidance Values - Indoor Air																OA-1																Guidance Values - Outdoor Air	
LOCATION	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Matrix Value	NYSDOH Air Guideline Value	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 (061721) Indoor Air	IA-6 (120221) Indoor Air	IA-6 (121922) Indoor Air	IA-6 (010924) Indoor Air	IA-6 (010924) Duplicate Indoor Air	OA-1 Outdoor Air	OA-1 (121219) Outdoor Air	OA-1 (121120) Outdoor Air	OA-1 (120221) Outdoor Air	OA-1 (121922) Outdoor Air	OA-2 (010924) Outdoor Air	Table C2 Outdoor Air Guidance Values (90%)	NYSDOH Air Guideline Value										
SAMPLING DATE				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	6/17/2021	12/22/2021	12/19/2022	1/9/2024	1/9/2024	12/18/2018	12/12/2019	12/11/2020	12/22/2021	12/19/2022	1/9/2024												
LAB SAMPLE ID				L1852191-05	L1959919-05	L2007739-01	L2007739-02	L2055692-05	L2108109-01	L2108109-02	L2108109-01	L2108109-01	L2132969-01	L2166417-08	L2271489-07	L2401917-02	L2401917-03	L1852191-08	L1959919-01	L2055692-08	L2166417-05	L2271489-08	L2401917-01												
Volatiles Organics in Air (ug/m ³)																																			
1,1,1-Trichloroethane*	20.6	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	NV										
1,1,2,2-Tetrachloroethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
1,1,2-Trichloroethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV										
1,1-Dichloroethane	<0.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.6	NV										
1,1-Dichloroethene	<1.4	1	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.4	NV										
1,2,4-Trichlorobenzene*	<6.8	NV	NV	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4	NV										
1,2,4-Trimethylbenzene	9.5	10	NV	ND	ND	1.09	1.24	ND	ND	1.20	ND	ND	ND	ND	1.13	ND	ND	ND	ND	ND	ND	ND	ND	5.8	NV										
1,2-Dibromomethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV										
1,2-Dichlorobenzene	<1.2	NV	NV	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.2	NV										
1,2-Dichloroethane	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.8	NV										
1,2-Dichloropropane	<1.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV										
1,3,5-Trimethylbenzene	3.7	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	NV										
1,3-butadiene	<3.0	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<3.4	NV										
1,3-Dichlorobenzene	<2.4	NV	NV	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2.2	NV										
1,4-Dichlorobenzene	5.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	NV										
1,4-Dioxane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
2,2,4-trimethylpentane	NV	10	NV	ND	ND	ND	ND	ND	ND	0.943	1.36	1.29	ND	ND	2.47	3.69	4.01	ND	ND	ND	ND	ND	ND	NV	NV										
2-Butanone (Methyl Ethyl Ketone)	12	NV	NV	ND	1.62	ND	ND	ND	1.87	1.67	1.67	1.58	ND	ND	ND	1.59	ND	ND	ND	ND	ND	ND	ND	11.3	NV										
2-Hexanone (Methyl Butyl Ketone)	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
2-Chloropropane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
4-Ethyltoluene	3.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	NV										
4-Methyl-2-pentanone (Methyl Isobutyl)	6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	NV										
Acetone	88.9	NV	NV	5.3	8.89	165	187	7.63 J	3.99 J	2.85 J	21.3 J	20.3 J	11.3	20.1 J	54.6	13.9	8.48	4.39	3.44	4.16 J	7.79	6.25	8.81	43.7	NV										
Benzene	9.4	10	NV	ND	0.655	ND	ND	1.12	1.12	1.13	1.30	1.25	ND	ND	1.73	1.08	1.17	ND	ND	ND	ND	ND	ND	6.6	NV										
Benzyl chloride	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4	NV										
Bromodichloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
Bromomethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
Bromomethane	<1.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6	NV										
Carbon disulfide	4.2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	NV										
Carbon tetrachloride*	<1.3	1	NV	0.598	2.26	0.434	0.453	0.528	0.434	0.465	0.528	0.535	0.711	0.484 J	0.761	0.478	0.478	0.459	0.484	0.403	0.528	0.491	0.497	0.7	NV										
Chlorobenzene	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.8	NV										
Chloroethane	<1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.2	NV										
Chloroform	1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	NV										
Chloromethane	3.7	NV	NV	1.08	1.09	0.956	0.921	1.01	0.898	0.944	1.08	1.04	1.20	1.12	1.48	1.18	1.33	1.13	1.11	0.952	1.14	0.938	1.21	3.7	NV										
cis-1,2-Dichloroethene*	<1.9	1	NV	0.103	0.270	0.095	0.119	0.079	ND	ND	0.095	0.091	ND	0.167	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.8	NV										
cis-1,3-Dichloropropene	<2.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2.2	NV										
Cyclohexane	NV	10	NV	ND	ND	ND	ND	ND	ND	0.688	1.16	1.13	ND	ND	1.57	1.87 J	2.18 J	ND	ND	ND	ND	ND	ND	NV	NV										
Dibromochloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
Dichlorodifluoromethane	16.5	NV	NV	2.49	2.66	1.88	1.93	2.08	1.99	2.02	2.12	2.16	2.47	2.53 J	2.46	2.47	2.52	1.39	2.55	1.89	2.68	2.41	2.53	8.1	NV										
Ethanol	210	NV	NV	40.1	194	111	129	228	105	104	194	220	41.6	117 J	122	54.8	65	ND	ND	ND	13.8	ND	ND	57	NV										
Ethyl acetate	5.4	NV	NV	ND	2.01	ND	ND	ND	2.79	2.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	NV										
Ethylbenzene	5.7	10	NV	ND	ND	5.52	5.86	ND	1.62	1.73	1.15	1.09	ND	ND	1.47	1.04	1.16	ND	ND	ND	ND	ND	ND	3.5	NV										
Freon 113	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
Freon 114	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV	NV										
Heptane	NV	20	NV	ND	ND	ND	ND	ND	0.971	1.08	2.45	2.28	ND	ND	2.84	3.59	4.04	ND	ND	ND	ND	ND	ND	2.8	NV										
Hexachlorobutadiene	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4	NV										
Isopropanol	250	NV	NV	ND	9.24	5.21	5.19	2.11	1.83 J	1.93 J	79.2	79.2	28.8	80.1 J	57	9.41	9.51	ND	ND	ND	6.64	3	ND	16.5	NV										
Methyl tert-butyl ether	11.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2	NV										
Methylene chloride	10	10	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.21	60										
n-Hexane	10.2	20	NV	ND	ND	ND	ND	0.733	3.30	3.41	5.08	4.79	ND	0.959 J	4.41	3.77	4.19	ND	ND	ND	0.705	1.54	ND	4.1	NV										
Naphthalene	5.1	10	NV	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4.9	NV										
o-Xylene	7.9	10	NV	ND	ND	5.21	5.60	ND	2.08	2.30	1.49	1.45	ND	ND	1.75	1.35	1.53	ND	ND	ND	ND	ND	ND	4.6	NV										
p,m-Xylene	22.2	20	NV	ND	ND	18.0	19.3	ND	6.91	7.60	4.39	4.26	ND	ND	5.08	3.73	4.11	ND	ND	ND	ND	ND	ND	12.8	NV										
Styrene	1.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	NV										
Tertiary butyl Alcohol																																			

Table 4
Pre and Post Mitigation Indoor Air Analytical Testing Results
Pierce Arrow Business Center
155 Chandler Street, Buffalo, NY

			Guidance Values - Indoor Air																												Table C2 Commercial Outdoor Air Background (90%)
LOCATION	Table C2 Commercial Indoor Air Background (90%)	NYSDOH Matrix Value	NYSDOH Air Guideline Value	IA-6 (12/2021)	IA-6 (12/19/22)	IA-6 (01/09/24)	IA-6 (01/09/24) Duplicate	IA-7 (12/2021)	IA-7 (03/29/22)	IA-7 (01/09/24)	IA-8 (12/2021)	IA-8 (06/14/22)	IA-8 (01/09/24)	IA-9 (03/29/22)	IA-9 (01/09/24)	IA-10 (03/29/22)	IA-11 (06/14/22)	IA-10/IA-11 (01/09/24)	IA-12 (06/14/22)	IA-12 (01/09/24)	OA-1 (12/2021)	OA-1 (03/29/22)	OA-2 (06/14/22)	OA-2 (01/09/24)	Table C2 Commercial Outdoor Air Background (90%)						
LAB SAMPLE ID				12/22/2021	12/19/2022	1/9/2024	1/9/2024	12/22/2021	3/29/2022	1/9/2024	12/22/2021	6/14/2022	1/9/2024	3/29/2022	1/9/2024	3/29/2022	6/14/2022	1/9/2024	6/14/2022	1/9/2024	12/22/2021	3/29/2022	6/14/2022	1/9/2024							
SAMPLE LOCATION				L2166417-08	L2271489-07	L2401917-02	L2401917-03	L2166417-06	L2217738-04	L2401917-07	L2166417-07	L2231846-09	L2401917-05	L2217738-06	L2401917-08	L2217738-05	L2231846-04	L2401917-07	L2401917-06	L2401917-08	L2166417-05	L2217738-01	L2231846-01	L2401917-01							
Mail Room																															
Cider Storage Closet																															
Cider Additional Seating Area																															
Cider Bar Area																															
Cider Event Area																															
OOL Basement Storage																															
Court yard																															
Chandler St.																															
Volatile Organics in Air (ug/m3)																															
1,1,1-Trichloroethane*	20.6	10	NV	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	2.6					
1,1,2,2-Tetrachloroethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
1,1,2-Trichloroethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6					
1,1-Dichloroethane	<0.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.6					
1,1-Dichloroethene*	<1.4	1	NV	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	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4					
1,2,4-Trimethylbenzene	9.5	10	NV	ND	1.13	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8					
1,2-Dibromooethane	<1.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6					
1,2-Dichlorobenzene	<1.2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.2					
1,2-Dichloroethane	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.8					
1,2-Dichloropropane	<1.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6					
1,3,5-Trimethylbenzene	3.7	10	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7					
1,3-Butadiene	<3.0	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<3.4					
1,3-Dichlorobenzene	<2.4	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2.2					
1,4-Dichlorobenzene	5.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2					
1,4-Dioxane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
2,2,4-Trimethylpentane	NV	10	NV	ND	2.47	3.69	4.01	1.44	ND	ND	1.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
2-Butanone	12	NV	NV	ND	ND	ND	1.59	ND	2.01	1.63	ND	ND	1.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.3					
2-Hexanone	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
3-Chloropropene	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
4-Ethyltoluene	3.6	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0					
4-Methyl-2-pentanone	6.0	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9					
Acetone	98.9	NV	NV	20.1	54.6	8.48	13.9	152	65.6	11.4	123	13.8	8.36	41.6	7.82	88.8	14.5	9.55	30.4	15.5	7.79	3.52	7.98	8.81	43.7						
Benzene	9.4	10	NV	ND	1.73	1.08	1.17	1.34	ND	ND	1.41	ND	ND	0.639	ND	0.684	ND	0.668	ND	ND	ND	ND	ND	ND	ND	6.6					
Benzyl chloride	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4					
Bromodichloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Bromoform	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Bromomethane	<1.7	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.6					
Carbon disulfide	4.2	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7					
Carbon tetrachloride*	<1.3	1	NV	0.484	0.761	0.478	0.478	1.01	3.96	0.522	0.9	0.453	0.516	8.05	0.516	5.13	0.371	0.572	0.459	0.554	0.528	0.566	0.447	0.497	0.7						
Chlorobenzene	<0.9	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.8					
Chloroethane	<1.1	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.2					
Chloroform	1.1	NV	NV	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	NV	1.12	1.48	1.18	1.33	1.32	1.24	1.26	1.19	1.2	1.21	1.18	1.23	1.14	1.2	1.16	1.28	1.14	1.11	1.08	1.21	3.7	1.2						
cis-1,2-Dichloroethene*	<1.9	1	NV	ND *	0.167	ND *	ND *	0.412	0.369	ND *	0.369	ND *	ND *	0.389	0.139	0.48	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	<1.8					
cis-1,3-Dichloropropene	<2.3	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2.2					
Cyclohexane	NV	10	NV	ND	1.57	1.87	2.18	ND	1.48	ND	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Dibromochloromethane	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Dichlorodifluoromethane	16.5	NV	NV	2.53	2.46	2.47	2.52	2.64	2.69	2.58	2.71	2.54	2.6	2.69	2.64	2.7	2.52	2.68	2.94	2.64	2.68	2.55	2.47	2.53	8.1						
Ethanol	210	NV	NV	117	122	54.8	85	874	232	73.7	820	53.9	82.5	209	96.3	144	56	72.9	72.9	86.7	13.8	ND	24.7	ND	57						
Ethyl Acetate	5.4	NV	NV	ND	ND	ND	ND	3.03	ND	ND	2.63	1.87	ND	ND	ND	1.99	2.46	ND	4.61	ND	ND	ND	ND	ND	ND	1.5					
Ethylbenzene	5.7	10	NV	ND	1.47	1.04	1.16	1.26	ND	ND	1.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5					
Freon-113	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Freon-114	NV	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NV					
Heptane	NV	20	NV	ND	2.84	3.59	4.04	5	ND	ND	2.73	ND	ND	1.13	ND	ND	ND	ND	0.963	1.44	ND	ND	ND	ND	ND	NV					
Hexachlorobutadiene	<6.8	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<6.4					
Isopropanol	250	NV	NV	80.1	57	9.41	9.51	902	R1	371	12.6	733	R1	18.5	14.8	237	13.4	543	13.4	15.7	66.6	39.6	6.64	3.79	6.69	16.5					
Methyl tert butyl ether	11.5	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2					
Methylene chloride	10	10	60	ND	ND	ND	ND	3.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.34	ND	4.24	ND	3.39	ND	6.1					
n-Hexane	10.2	20	NV	0.959	4.41	3.77	4.19	5.64	ND	ND	5.85	2.18	ND	ND	ND	1.86	0.892	2.71	ND	ND	1.54	ND	2.03	ND	6.4						
Naphthalene	5.1	10	NV	NT	NT	NT	NT	NT	NT	NT	NT																				

Table 5
Summary of Pre & Post Carbon Air Analytical Testing Results
155 Chandler Street, Buffalo, NY
Summary of Air Analytical Testing Results

	February 2024 - L2407343		March 2024 - L2413547		April 2024 - L2419951		July 2024 - L2428431	
Parameter	PRE CARBON (020824)	POST CARBON (020824)	PRE CARBON (031224)	POST CARBON (031224)	PRE CARBON (041124)	POST CARBON (041124)	PRE CARBON (070924)	POST CARBON (070924)
Volatile Organic Compounds (ug/m³)								
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.79	1.65	2.07	1.66	4.97	6	5.41	6.15
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1.49	1.86	1.36	1.57
1,3-Butadiene	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	5.46	ND	2.07	ND	2.3	ND	1.95	1.7
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND
3-Chloropropene	ND	ND	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	ND	ND	ND	ND	1.17	1.75	ND	1.37
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	6.07	ND
Acetone	13	13.5	8.39	13.8	58.9	23.6	50.4	42.3
Benzene	3.96	0.885	0.994	4.98	1.23	1.42	1.34	6.68
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.666	1.25	0.732	ND	1.07	1	3.02	3.89
Carbon tetrachloride	20	ND	16	ND	22.8	1.37	19.3	28.4
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7.86	ND	6.25	4.79	8.64	8.69	8.84	8.74
Chloromethane	0.562	0.558	0.504	0.663	0.603	0.632	0.477	0.522
cis-1,2-Dichloroethene	4.32	ND	3.67	3.71	5.79	5.51	3.56	4.24
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	0.743	1.33
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	2.63	2.51	2.24	2.35	2.28	2.54	2.09	2.33
Ethyl Alcohol	21.5	26.2	39.8	66.3	61	96.1	50.7	76.1
Ethyl Acetate	25.3	16.2	38.9	34.5	40.7	38.2	ND	35.2
Ethylbenzene	ND	ND	1.28	2.65	10.8	22.5	1.71	2.75
Freon-113	ND	ND	ND	ND	ND	ND	ND	ND
Freon-114	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	ND	1.16	ND	ND	ND	0.865
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND
iso-Propyl Alcohol	9.66	21.3	4.33	7.15	232	40.1	156	246
Methyl tert butyl ether	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	4.2	ND	ND	ND	ND	2.73	ND	ND
n-Hexane	1.97	3.59	ND	ND	ND	ND	2.26	9.76
Naphthalene	NT	NT	NT	NT	ND	ND	ND	ND
o-Xylene	0.908	1.19	1.47	2.85	17.6	34.9	3.07	4.52
p/m-Xylene	2.16	3.26	5.21	10.9	50.8	104	8.6	13.5
Styrene	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl Alcohol	NA	NA	ND	ND	ND	ND	2.24	ND
Tetrachloroethene	3.87	ND	1.45	ND	21.6	ND	2.85	ND
Tetrahydrofuran	6.93	67.8	4.19	49	4.75	24.7	1.94	2.63
Toluene	2.76	2.29	4.15	7.99	4.33	7.12	6.22	11.9
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.88	ND	1.19	0.975
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	372	ND	294	ND	303	ND	284	383
Trichlorofluoromethane	1.98	1.79	1.61	1.6	1.69	2.03	1.75	1.69
Vinyl bromide	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND
Total Target cVOCs	404.39	0	315.12	3.71	353.19	9.61	309.71	415.64
Percent Reduction	-100.00		-98.82		-97.28		34.20	

Notes:

- Compounds detected in one or more samples included in this table. For a list of all compounds, refer to analytical report in the Appendix.
- Analytical testing for VOCs via TO-15 completed by Alpha Analytical.
- Results present in ug/m³ or microgram per cubic meter.
- Parameters shaded in red indicate chlorinated volatile organic compounds (cVOCs) of concern included on NYSDOH Matrix A, Matrix B, and Matrix C. Parameters shaded in blue indicate petroleum VOCs included on NYSDOH Matrix D, Matrix E, and Matrix F.
- Results in red indicate higher post-carbon readings over pre-carbon readings
- ND = Non Detect; NT = Not Tested.

APPENDIX D

LABORATORY ANALYTICAL RESULTS



ANALYTICAL REPORT

Lab Number:	L2401917
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	ANNUAL SSDS VERIFICATION
Project Number:	01101
Report Date:	01/23/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), 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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2401917-01	OA-2	AIR	155 CHANDLER ST	01/09/24 16:13	01/11/24
L2401917-02	IA-6	AIR	155 CHANDLER ST	01/09/24 16:21	01/11/24
L2401917-03	IA-6 DUPLICATE	AIR	155 CHANDLER ST	01/09/24 16:22	01/11/24
L2401917-04	IA-7	AIR	155 CHANDLER ST	01/09/24 16:16	01/11/24
L2401917-05	IA-8	AIR	155 CHANDLER ST	01/09/24 16:15	01/11/24
L2401917-06	IA-9	AIR	155 CHANDLER ST	01/09/24 16:16	01/11/24
L2401917-07	IA-10/IA-11	AIR	155 CHANDLER ST	01/09/24 16:18	01/11/24
L2401917-08	IA-12	AIR	155 CHANDLER ST	01/09/24 16:26	01/11/24



Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 20, 2023. The canister certification data is provided as an addendum.

The WG1876453-3 LCS recovery for benzyl chloride (134%), associated with L2401917-01 through -08, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/23/24

AIR

Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01
 Client ID: OA-2
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 17:36
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--		1
Chloromethane	0.586	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	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.71	1.00	--	8.81	2.38	--		1
Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01

Client ID: OA-2

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.338	0.200	--	1.27	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01

Client ID: OA-2

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-01
 Client ID: OA-2
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:13
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 17:36
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.079	0.020	--	0.497	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02
 Client ID: IA-6
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 18:13
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.500	0.200	--	2.47	0.989	--		1
Chloromethane	0.573	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	29.1	5.00	--	54.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.57	1.00	--	8.48	2.38	--		1
Trichlorofluoromethane	0.248	0.200	--	1.39	1.12	--		1
Isopropanol	3.83	0.500	--	9.41	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.518	0.500	--	1.53	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02

Client ID: IA-6

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.07	0.200	--	3.77	0.705	--		1
Benzene	0.339	0.200	--	1.08	0.639	--		1
Cyclohexane	0.542	0.200	--	1.87	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	0.789	0.200	--	3.69	0.934	--		1
Heptane	0.877	0.200	--	3.59	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.19	0.200	--	8.25	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.240	0.200	--	1.04	0.869	--		1
p/m-Xylene	0.859	0.400	--	3.73	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	0.310	0.200	--	1.35	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02

Date Collected: 01/09/24 16:21

Client ID: IA-6

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-02
 Client ID: IA-6
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:21
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 18:13
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.071	0.020	--	0.382	0.107	--		1
Tetrachloroethene	0.033	0.020	--	0.224	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03
 Client ID: IA-6 DUPLICATE
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 18:49
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.509	0.200	--	2.52	0.989	--		1
Chloromethane	0.642	0.200	--	1.33	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	34.5	5.00	--	65.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.84	1.00	--	13.9	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	3.87	0.500	--	9.51	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	0.539	0.500	--	1.59	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.585	0.500	--	1.73	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03

Client ID: IA-6 DUPLICATE

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.19	0.200	--	4.19	0.705	--		1
Benzene	0.365	0.200	--	1.17	0.639	--		1
Cyclohexane	0.632	0.200	--	2.18	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	0.858	0.200	--	4.01	0.934	--		1
Heptane	0.985	0.200	--	4.04	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.41	0.200	--	9.08	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.268	0.200	--	1.16	0.869	--		1
p/m-Xylene	0.946	0.400	--	4.11	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	0.352	0.200	--	1.53	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03

Date Collected: 01/09/24 16:22

Client ID: IA-6 DUPLICATE

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-03
 Client ID: IA-6 DUPLICATE
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:22
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 18:49
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	0.074	0.020	--	0.398	0.107	--		1
Tetrachloroethene	0.043	0.020	--	0.292	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04
 Client ID: IA-7
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 19:25
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--		1
Chloromethane	0.610	0.200	--	1.26	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	39.1	5.00	--	73.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.79	1.00	--	11.4	2.38	--		1
Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--		1
Isopropanol	5.12	0.500	--	12.6	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	0.553	0.500	--	1.63	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.987	0.500	--	2.91	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04

Client ID: IA-7

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.481	0.200	--	1.81	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04

Client ID: IA-7

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-04
 Client ID: IA-7
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 19:25
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.139	0.020	--	0.747	0.107	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05
 Client ID: IA-8
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 20:02
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.525	0.200	--	2.60	0.989	--		1
Chloromethane	0.582	0.200	--	1.20	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	43.8	5.00	--	82.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.52	1.00	--	8.36	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	6.02	0.500	--	14.8	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	0.614	0.500	--	1.81	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.10	0.500	--	3.24	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05

Client ID: IA-8

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.348	0.200	--	1.31	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05

Client ID: IA-8

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-05
 Client ID: IA-8
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:15
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 20:02
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.169	0.020	--	0.908	0.107	--		1
Tetrachloroethene	0.040	0.020	--	0.271	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	88		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06
 Client ID: IA-9
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 21:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.534	0.200	--	2.64	0.989	--		1
Chloromethane	0.572	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	51.1	5.00	--	96.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.29	1.00	--	7.82	2.38	--		1
Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--		1
Isopropanol	5.44	0.500	--	13.4	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	0.349	0.200	--	1.09	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.879	0.500	--	2.59	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06

Client ID: IA-9

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.322	0.200	--	1.21	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06

Date Collected: 01/09/24 16:16

Client ID: IA-9

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-06
 Client ID: IA-9
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:16
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 21:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.035	0.020	--	0.139	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--		1
Trichloroethene	0.154	0.020	--	0.828	0.107	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07
 Client ID: IA-10/IA-11
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 21:51
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.542	0.200	--	2.68	0.989	--		1
Chloromethane	0.583	0.200	--	1.20	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	38.7	5.00	--	72.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.02	1.00	--	9.55	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	6.39	0.500	--	15.7	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	0.679	0.500	--	2.00	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.29	0.500	--	3.80	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07

Client ID: IA-10/IA-11

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.253	0.200	--	0.892	0.705	--		1
Benzene	0.209	0.200	--	0.668	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	0.511	0.200	--	1.93	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07

Date Collected: 01/09/24 16:18

Client ID: IA-10/IA-11

Date Received: 01/11/24

Sample Location: 155 CHANDLER ST

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-07
 Client ID: IA-10/IA-11
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:18
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 21:51
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.091	0.020	--	0.572	0.126	--		1
Trichloroethene	0.213	0.020	--	1.14	0.107	--		1
Tetrachloroethene	0.109	0.020	--	0.739	0.136	--		1

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



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08
 Client ID: IA-12
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/20/24 22:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.533	0.200	--	2.64	0.989	--		1
Chloromethane	0.621	0.200	--	1.28	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	46.0	5.00	--	86.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.52	1.00	--	15.5	2.38	--		1
Trichlorofluoromethane	0.256	0.200	--	1.44	1.12	--		1
Isopropanol	16.1	0.500	--	39.6	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	1.04	0.500	--	3.07	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.64	0.500	--	4.84	1.47	--		1



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08

Client ID: IA-12

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.351	0.200	--	1.44	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	0.375	0.200	--	1.41	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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08

Client ID: IA-12

Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26

Date Received: 01/11/24

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24**SAMPLE RESULTS**

Lab ID: L2401917-08
 Client ID: IA-12
 Sample Location: 155 CHANDLER ST

Date Collected: 01/09/24 16:26
 Date Received: 01/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/24 22:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Trichloroethene	0.290	0.020	--	1.56	0.107	--		1
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/20/24 16:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1876453-4								
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: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/20/24 17:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-08 Batch: WG1876455-4								
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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3											
Dichlorodifluoromethane	100			-			70-130		-		
Chloromethane	100			-			70-130		-		
Freon-114	114			-			70-130		-		
Vinyl chloride	106			-			70-130		-		
1,3-Butadiene	120			-			70-130		-		
Bromomethane	106			-			70-130		-		
Chloroethane	109			-			70-130		-		
Ethanol	118			-			40-160		-		
Vinyl bromide	106			-			70-130		-		
Acetone	102			-			40-160		-		
Trichlorofluoromethane	100			-			70-130		-		
Isopropanol	96			-			40-160		-		
1,1-Dichloroethene	110			-			70-130		-		
Tertiary butyl Alcohol	113			-			70-130		-		
Methylene chloride	97			-			70-130		-		
3-Chloropropene	116			-			70-130		-		
Carbon disulfide	105			-			70-130		-		
Freon-113	103			-			70-130		-		
trans-1,2-Dichloroethene	114			-			70-130		-		
1,1-Dichloroethane	104			-			70-130		-		
Methyl tert butyl ether	114			-			70-130		-		
2-Butanone	106			-			70-130		-		
cis-1,2-Dichloroethene	110			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3								
Ethyl Acetate	121	-	-	-	70-130	-	-	-
Chloroform	107	-	-	-	70-130	-	-	-
Tetrahydrofuran	109	-	-	-	70-130	-	-	-
1,2-Dichloroethane	98	-	-	-	70-130	-	-	-
n-Hexane	122	-	-	-	70-130	-	-	-
1,1,1-Trichloroethane	102	-	-	-	70-130	-	-	-
Benzene	105	-	-	-	70-130	-	-	-
Carbon tetrachloride	106	-	-	-	70-130	-	-	-
Cyclohexane	124	-	-	-	70-130	-	-	-
1,2-Dichloropropane	106	-	-	-	70-130	-	-	-
Bromodichloromethane	120	-	-	-	70-130	-	-	-
1,4-Dioxane	125	-	-	-	70-130	-	-	-
Trichloroethene	108	-	-	-	70-130	-	-	-
2,2,4-Trimethylpentane	122	-	-	-	70-130	-	-	-
Heptane	113	-	-	-	70-130	-	-	-
cis-1,3-Dichloropropene	111	-	-	-	70-130	-	-	-
4-Methyl-2-pentanone	114	-	-	-	70-130	-	-	-
trans-1,3-Dichloropropene	111	-	-	-	70-130	-	-	-
1,1,2-Trichloroethane	106	-	-	-	70-130	-	-	-
Toluene	105	-	-	-	70-130	-	-	-
2-Hexanone	114	-	-	-	70-130	-	-	-
Dibromochloromethane	117	-	-	-	70-130	-	-	-
1,2-Dibromoethane	103	-	-	-	70-130	-	-	-



Lab Control Sample Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876453-3											
Tetrachloroethene	101			-			70-130		-		
Chlorobenzene	105			-			70-130		-		
Ethylbenzene	106			-			70-130		-		
p/m-Xylene	106			-			70-130		-		
Bromoform	121			-			70-130		-		
Styrene	109			-			70-130		-		
1,1,2,2-Tetrachloroethane	112			-			70-130		-		
o-Xylene	108			-			70-130		-		
4-Ethyltoluene	117			-			70-130		-		
1,3,5-Trimethylbenzene	103			-			70-130		-		
1,2,4-Trimethylbenzene	116			-			70-130		-		
Benzyl chloride	134		Q	-			70-130		-		
1,3-Dichlorobenzene	106			-			70-130		-		
1,4-Dichlorobenzene	110			-			70-130		-		
1,2-Dichlorobenzene	105			-			70-130		-		
1,2,4-Trichlorobenzene	116			-			70-130		-		
Hexachlorobutadiene	107			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 Batch: WG1876455-3								
Vinyl chloride	108		-		70-130	-		25
1,1-Dichloroethene	109		-		70-130	-		25
cis-1,2-Dichloroethene	111		-		70-130	-		25
1,1,1-Trichloroethane	98		-		70-130	-		25
Carbon tetrachloride	99		-		70-130	-		25
Trichloroethene	107		-		70-130	-		25
Tetrachloroethene	100		-		70-130	-		25



Lab Duplicate Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
Dichlorodifluoromethane	0.525	0.523	ppbV	0		25
Chloromethane	0.582	0.597	ppbV	3		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	43.8	42.2	ppbV	4		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	3.52	3.50	ppbV	1		25
Trichlorofluoromethane	0.254	0.260	ppbV	2		25
Isopropanol	6.02	5.81	ppbV	4		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	0.614	0.608	ppbV	1		25
Ethyl Acetate	ND	ND	ppbV	NC		25



Lab Duplicate Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	1.10	1.09	ppbV	1		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.348	0.359	ppbV	3		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25



Lab Duplicate Analysis
Batch Quality Control

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876453-5 QC Sample: L2401917-05 Client ID: IA-8						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1876455-5 QC Sample: L2401917-05 Client ID: IA-8						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.082	0.092	ppbV	11		25
Trichloroethene	0.169	0.177	ppbV	5		25
Tetrachloroethene	0.040	0.040	ppbV	0		25



Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2401917-01	OA-2	02215	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	4.7	4
L2401917-01	OA-2	3180	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-6.2	-	-	-	-
L2401917-02	IA-6	01930	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.0	11
L2401917-02	IA-6	121	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-2.0	-	-	-	-
L2401917-03	IA-6 DUPLICATE	01515	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.4	18
L2401917-03	IA-6 DUPLICATE	3239	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-1.3	-	-	-	-
L2401917-04	IA-7	01073	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	3.8	17
L2401917-04	IA-7	135	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-3.3	-	-	-	-
L2401917-05	IA-8	02152	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	5.6	22
L2401917-05	IA-8	2081	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-3.7	-	-	-	-
L2401917-06	IA-9	01892	Flow 5	12/20/23	448274		-	-	-	Pass	4.5	4.9	9
L2401917-06	IA-9	2767	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.0	-	-	-	-
L2401917-07	IA-10/IA-11	02062	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	5.0	11
L2401917-07	IA-10/IA-11	3208	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.3	-	-	-	-
L2401917-08	IA-12	01633	Flow 4	12/20/23	448274		-	-	-	Pass	4.5	5.2	14

Project Name:

ANNUAL SSDS VERIFICATION

Project Number:

01101

Serial_No:

01232416:33

Lab Number:

L2401917

Report Date:

01/23/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2401917-08	IA-12	2433	2.7L Can	12/20/23	448274	L2374537-01	Pass	-29.9	-4.8	-	-	-	-



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/19/23 04:47
Analyst: BJB

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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2374537**Project Number:** CANISTER QC BAT**Report Date:** 01/23/24**Air Canister Certification Results**

Lab ID: L2374537-01

Date Collected: 12/15/23 18:00

Client ID: CAN 3006 SHELF 14

Date Received: 12/18/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

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



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2374537**Project Number:** CANISTER QC BAT**Report Date:** 01/23/24**Air Canister Certification Results**

Lab ID: L2374537-01

Date Collected: 12/15/23 18:00

Client ID: CAN 3006 SHELF 14

Date Received: 12/18/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	91		60-140

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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/19/23 04:47
Analyst: BJB

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



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

Lab Number: L2374537
Report Date: 01/23/24

Air Canister Certification Results

Lab ID: L2374537-01
Client ID: CAN 3006 SHELF 14
Sample Location:

Date Collected: 12/15/23 18:00
Date Received: 12/18/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	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**Lab Number:** L2374537**Project Number:** CANISTER QC BAT**Report Date:** 01/23/24**Air Canister Certification Results**

Lab ID: L2374537-01

Date Collected: 12/15/23 18:00

Client ID: CAN 3006 SHELF 14

Date Received: 12/18/23

Sample Location:

Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler NA
Custody Seal Present/Intact

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2401917-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30), TO15-SIM(30)
L2401917-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30), TO15-LL(30)
L2401917-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30), TO15-LL(30)
L2401917-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30), TO15-LL(30)
L2401917-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30), TO15-SIM(30)
L2401917-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30), TO15-LL(30)
L2401917-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30), TO15-SIM(30)
L2401917-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30), TO15-SIM(30)

Project Name: ANNUAL SSDS VERIFICATION**Lab Number:** L2401917**Project Number:** 01101**Report Date:** 01/23/24

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: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 20

Department: **Quality Assurance**

Published Date: 6/16/2023 4:52:28 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 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 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 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).**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.

Date Due: _____
Time: _____

labresults@envd.vantage.com

State/Fed	Program	Res / Comm

TO-15
TO-15 SIM
APH
Subtract Non-petroleum HCs
☐ Fixed Gases
Sulfides & Mercaptans by TO-15

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller
		End Date	Start Time	End Time	Initial Vacuum					
01917-01	OA-2	1/9/24	8:43	4:13	-29.38	-5.78	CS	2.7L	3100	02215 X
02	IA-6	1/9/24	8:19	4:21	-29.43	-1.85	CS	2.7L	121	01930 X
03	IA-6 duplicate	1/9/24	8:18	4:22	-29.91	-1.06	CS	2.7L	3239	01505 X
04	IA-7	1/9/24	8:22	4:16	-29.50	-2.00	CS	2.7L	135	01073 X
05	IA-8	1/9/24	8:24	4:15	-29.33	-2.46	CS	2.7L	2081	02152 X
06	IA-9	1/9/24	8:27	4:16	-29.42	-2.27	CS	2.7L	2767	01892 X
07	IA-10/IA-11	1/9/24	8:34	4:18	-29.49	-2.92	CS	2.7L	3208	02062 X
08	IA-12	1/9/24	8:12	4:26	-29.62	-3.70	CS	2.7L	2433	01633 X

Date/Time:

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.



ANALYTICAL REPORT

Lab Number:	L2407343
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	02/23/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), 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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2407343-01	PRE	SOIL_VAPOR	155 CHANDLER ST.	02/08/24 10:30	02/08/24
L2407343-02	POST	SOIL_VAPOR	155 CHANDLER ST.	02/08/24 10:30	02/08/24



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Case Narrative (continued)

Volatile Organics in Air

L2407343-01 and -02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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: 02/23/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 02/23/24 06:38
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.531	0.200	--	2.63	0.989	--		1
Chloromethane	0.272	0.200	--	0.562	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	11.4	5.00	--	21.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.48	1.00	--	13.0	2.38	--		1
Trichlorofluoromethane	0.353	0.200	--	1.98	1.12	--		1
Isopropanol	3.93	0.500	--	9.66	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	1.21	0.500	--	4.20	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.214	0.200	--	0.666	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	1.85	0.500	--	5.46	1.47	--		1
cis-1,2-Dichloroethene	1.09	0.200	--	4.32	0.793	--		1
Ethyl Acetate	7.02	0.500	--	25.3	1.80	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30

Date Received: 02/08/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	1.61	0.200	--	7.86	0.977	--		1
Tetrahydrofuran	2.35	0.500	--	6.93	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.559	0.200	--	1.97	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.24	0.200	--	3.96	0.639	--		1
Carbon tetrachloride	3.18	0.200	--	20.0	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	69.2	0.200	--	372	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	0.733	0.200	--	2.76	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	0.570	0.200	--	3.87	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.498	0.400	--	2.16	1.74	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30

Date Received: 02/08/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	0.209	0.200	--	0.908	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.364	0.200	--	1.79	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	89		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 02/23/24 07:17
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.507	0.200	--	2.51	0.989	--		1
Chloromethane	0.270	0.200	--	0.558	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	13.9	5.00	--	26.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.67	1.00	--	13.5	2.38	--		1
Trichlorofluoromethane	0.318	0.200	--	1.79	1.12	--		1
Isopropanol	8.67	0.500	--	21.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.402	0.200	--	1.25	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	4.50	0.500	--	16.2	1.80	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24**SAMPLE RESULTS**

Lab ID: L2407343-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	23.0	0.500	--	67.8	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.02	0.200	--	3.59	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.277	0.200	--	0.885	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	0.607	0.200	--	2.29	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	0.750	0.400	--	3.26	1.74	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

SAMPLE RESULTS

Lab ID: L2407343-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 02/08/24 10:30
 Date Received: 02/08/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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	0.273	0.200	--	1.19	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.335	0.200	--	1.65	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2407343**Project Number:** 01101**Report Date:** 02/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 02/22/24 15:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1888228-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Qual	Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3											
Dichlorodifluoromethane	102			-			70-130		-		
Chloromethane	81			-			70-130		-		
Freon-114	100			-			70-130		-		
Vinyl chloride	94			-			70-130		-		
1,3-Butadiene	89			-			70-130		-		
Bromomethane	99			-			70-130		-		
Chloroethane	98			-			70-130		-		
Ethanol	95			-			40-160		-		
Vinyl bromide	94			-			70-130		-		
Acetone	92			-			40-160		-		
Trichlorofluoromethane	113			-			70-130		-		
Isopropanol	76			-			40-160		-		
1,1-Dichloroethene	104			-			70-130		-		
Tertiary butyl Alcohol	85			-			70-130		-		
Methylene chloride	87			-			70-130		-		
3-Chloropropene	98			-			70-130		-		
Carbon disulfide	92			-			70-130		-		
Freon-113	102			-			70-130		-		
trans-1,2-Dichloroethene	99			-			70-130		-		
1,1-Dichloroethane	100			-			70-130		-		
Methyl tert butyl ether	87			-			70-130		-		
2-Butanone	94			-			70-130		-		
cis-1,2-Dichloroethene	100			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3											
Ethyl Acetate	103			-			70-130		-		
Chloroform	106			-			70-130		-		
Tetrahydrofuran	92			-			70-130		-		
1,2-Dichloroethane	108			-			70-130		-		
n-Hexane	99			-			70-130		-		
1,1,1-Trichloroethane	103			-			70-130		-		
Benzene	90			-			70-130		-		
Carbon tetrachloride	114			-			70-130		-		
Cyclohexane	98			-			70-130		-		
1,2-Dichloropropane	98			-			70-130		-		
Bromodichloromethane	114			-			70-130		-		
1,4-Dioxane	100			-			70-130		-		
Trichloroethene	100			-			70-130		-		
2,2,4-Trimethylpentane	96			-			70-130		-		
Heptane	96			-			70-130		-		
cis-1,3-Dichloropropene	88			-			70-130		-		
4-Methyl-2-pentanone	95			-			70-130		-		
trans-1,3-Dichloropropene	90			-			70-130		-		
1,1,2-Trichloroethane	100			-			70-130		-		
Toluene	90			-			70-130		-		
2-Hexanone	89			-			70-130		-		
Dibromochloromethane	120			-			70-130		-		
1,2-Dibromoethane	94			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1888228-3											
Tetrachloroethene	92			-			70-130		-		
Chlorobenzene	92			-			70-130		-		
Ethylbenzene	92			-			70-130		-		
p/m-Xylene	96			-			70-130		-		
Bromoform	123			-			70-130		-		
Styrene	88			-			70-130		-		
1,1,2,2-Tetrachloroethane	101			-			70-130		-		
o-Xylene	96			-			70-130		-		
4-Ethyltoluene	96			-			70-130		-		
1,3,5-Trimethylbenzene	93			-			70-130		-		
1,2,4-Trimethylbenzene	92			-			70-130		-		
Benzyl chloride	93			-			70-130		-		
1,3-Dichlorobenzene	100			-			70-130		-		
1,4-Dichlorobenzene	98			-			70-130		-		
1,2-Dichlorobenzene	95			-			70-130		-		
1,2,4-Trichlorobenzene	79			-			70-130		-		
Hexachlorobutadiene	94			-			70-130		-		



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

CoolerNA

Custody SealAbsent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2407343-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2407343-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)



Project Name: 155 CHANDLER PRE/POST CARBON
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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: 155 CHANDLER PRE/POST CARBON
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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
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Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2407343
Report Date: 02/23/24

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 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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).

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.



ANALYTICAL REPORT

Lab Number:	L2413547
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	03/29/24

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



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2413547-01	PRE	SOIL_VAPOR	155 CHANDLER ST	03/12/24 11:46	03/13/24
L2413547-02	POST	SOIL_VAPOR	155 CHANDLER ST	03/12/24 11:46	03/13/24



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Case Narrative (continued)

Volatile Organics in Air

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 03/29/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

SAMPLE RESULTS

Lab ID: L2413547-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46
 Date Received: 03/13/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/29/24 02:20
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.454	0.200	--	2.24	0.989	--		1
Chloromethane	0.244	0.200	--	0.504	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	21.1	5.00	--	39.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.53	1.00	--	8.39	2.38	--		1
Trichlorofluoromethane	0.286	0.200	--	1.61	1.12	--		1
Isopropanol	1.76	0.500	--	4.33	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	0.235	0.200	--	0.732	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	0.701	0.500	--	2.07	1.47	--		1
cis-1,2-Dichloroethene	0.925	0.200	--	3.67	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-01

Client ID: PRE

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	10.8	0.500	--	38.9	1.80	--		1
Chloroform	1.28	0.200	--	6.25	0.977	--		1
Tetrahydrofuran	1.42	0.500	--	4.19	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	0.311	0.200	--	0.994	0.639	--		1
Carbon tetrachloride	2.55	0.200	--	16.0	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	54.7	0.200	--	294	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	1.10	0.200	--	4.15	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	0.295	0.200	--	1.28	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-01

Client ID: PRE

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.20	0.400	--	5.21	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	0.339	0.200	--	1.47	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.421	0.200	--	2.07	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	98		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46
 Date Received: 03/13/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/29/24 05:02
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--		1
Chloromethane	0.321	0.200	--	0.663	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	35.2	5.00	--	66.3	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.83	1.00	--	13.8	2.38	--		1
Trichlorofluoromethane	0.284	0.200	--	1.60	1.12	--		1
Isopropanol	2.91	0.500	--	7.15	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	0.935	0.200	--	3.71	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02

Client ID: POST

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	9.57	0.500	--	34.5	1.80	--		1
Chloroform	0.981	0.200	--	4.79	0.977	--		1
Tetrahydrofuran	16.6	0.500	--	49.0	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	1.56	0.200	--	4.98	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	0.283	0.200	--	1.16	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.12	0.200	--	7.99	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.610	0.200	--	2.65	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24**SAMPLE RESULTS**

Lab ID: L2413547-02

Client ID: POST

Sample Location: 155 CHANDLER ST

Date Collected: 03/12/24 11:46

Date Received: 03/13/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.51	0.400	--	10.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.656	0.200	--	2.85	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.337	0.200	--	1.66	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	95		60-140
chlorobenzene-d5	95		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/28/24 15:10

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1902124-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3								
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	100		-		70-130	-		
Vinyl chloride	90		-		70-130	-		
1,3-Butadiene	97		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	91		-		70-130	-		
Ethanol	90		-		40-160	-		
Vinyl bromide	88		-		70-130	-		
Acetone	90		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	84		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	89		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	97		-		70-130	-		
Carbon disulfide	87		-		70-130	-		
Freon-113	91		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Qual	Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3											
Ethyl Acetate	91			-			70-130		-		
Chloroform	93			-			70-130		-		
Tetrahydrofuran	93			-			70-130		-		
1,2-Dichloroethane	91			-			70-130		-		
n-Hexane	91			-			70-130		-		
1,1,1-Trichloroethane	93			-			70-130		-		
Benzene	91			-			70-130		-		
Carbon tetrachloride	97			-			70-130		-		
Cyclohexane	92			-			70-130		-		
1,2-Dichloropropane	90			-			70-130		-		
Bromodichloromethane	98			-			70-130		-		
1,4-Dioxane	100			-			70-130		-		
Trichloroethene	89			-			70-130		-		
2,2,4-Trimethylpentane	95			-			70-130		-		
Heptane	98			-			70-130		-		
cis-1,3-Dichloropropene	98			-			70-130		-		
4-Methyl-2-pentanone	99			-			70-130		-		
trans-1,3-Dichloropropene	99			-			70-130		-		
1,1,2-Trichloroethane	91			-			70-130		-		
Toluene	90			-			70-130		-		
2-Hexanone	106			-			70-130		-		
Dibromochloromethane	101			-			70-130		-		
1,2-Dibromoethane	96			-			70-130		-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1902124-3														
Tetrachloroethene	88			-			70-130		-					
Chlorobenzene	92			-			70-130		-					
Ethylbenzene	92			-			70-130		-					
p/m-Xylene	94			-			70-130		-					
Bromoform	99			-			70-130		-					
Styrene	97			-			70-130		-					
1,1,2,2-Tetrachloroethane	96			-			70-130		-					
o-Xylene	96			-			70-130		-					
4-Ethyltoluene	95			-			70-130		-					
1,3,5-Trimethylbenzene	101			-			70-130		-					
1,2,4-Trimethylbenzene	98			-			70-130		-					
Benzyl chloride	91			-			70-130		-					
1,3-Dichlorobenzene	96			-			70-130		-					
1,4-Dichlorobenzene	94			-			70-130		-					
1,2-Dichlorobenzene	96			-			70-130		-					
1,2,4-Trichlorobenzene	83			-			70-130		-					
Hexachlorobutadiene	86			-			70-130		-					



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

CoolerNA

Custody SealAbsent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2413547-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2413547-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2413547**Project Number:** 01101**Report Date:** 03/29/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2413547
Report Date: 03/29/24

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 20

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Certification Information

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

Westborough Facility**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 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 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 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).**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.



ANALYTICAL REPORT

Lab Number:	L2419951
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	04/26/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2419951-01	PRE	SOIL_VAPOR	155 CHANDLER ST.	04/11/24 12:15	04/11/24
L2419951-02	POST	SOIL_VAPOR	155 CHANDLER ST.	04/11/24 12:16	04/11/24



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Case Narrative (continued)

Volatile Organics in Air

L2419951-01,-02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

WG1913405-3: The quality control sample LCS, associated with WG1913405-3, did not meet the acceptance criteria for the full scan analysis. The associated compounds for those samples were reported from the SIM analysis.

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:

 Jennifer Jerome

Title: Technical Director/Representative

Date: 04/26/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/26/24 05:13
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.462	0.200	--	2.28	0.989	--		1
Chloromethane	0.292	0.200	--	0.603	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
Ethanol	32.4	5.00	--	61.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.8	1.00	--	58.9	2.38	--		1
Trichlorofluoromethane	0.301	0.200	--	1.69	1.12	--		1
Isopropanol	94.5	0.500	--	232	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	0.343	0.200	--	1.07	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.222	0.200	--	0.880	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	0.779	0.500	--	2.30	1.47	--		1
cis-1,2-Dichloroethene	1.46	0.200	--	5.79	0.793	--		1
Ethyl Acetate	11.3	0.500	--	40.7	1.80	--		1
Chloroform	1.77	0.200	--	8.64	0.977	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01

Client ID: PRE

Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15

Date Received: 04/11/24

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	1.61	0.500	--	4.75	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	0.385	0.200	--	1.23	0.639	--		1
Carbon tetrachloride	3.62	0.200	--	22.8	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	56.3	0.200	--	303	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	1.15	0.200	--	4.33	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	3.19	0.200	--	21.6	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.48	0.200	--	10.8	0.869	--		1
p/m-Xylene	11.7	0.400	--	50.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	4.06	0.200	--	17.6	0.869	--		1
4-Ethyltoluene	0.239	0.200	--	1.17	0.983	--		1
1,3,5-Trimethylbenzene	0.304	0.200	--	1.49	0.983	--		1
1,2,4-Trimethylbenzene	1.01	0.200	--	4.97	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-01
 Client ID: PRE
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:15
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/26/24 05:13
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 04/26/24 05:52
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.513	0.200	--	2.54	0.989	--		1
Chloromethane	0.306	0.200	--	0.632	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
Ethanol	51.0	5.00	--	96.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.92	1.00	--	23.6	2.38	--		1
Trichlorofluoromethane	0.361	0.200	--	2.03	1.12	--		1
Isopropanol	16.3	0.500	--	40.1	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	0.785	0.500	--	2.73	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.321	0.200	--	1.00	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	1.39	0.200	--	5.51	0.793	--		1
Ethyl Acetate	10.6	0.500	--	38.2	1.80	--		1
Chloroform	1.78	0.200	--	8.69	0.977	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrahydrofuran	8.36	0.500	--	24.7	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	0.445	0.200	--	1.42	0.639	--		1
Carbon tetrachloride	0.218	0.200	--	1.37	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	1.89	0.200	--	7.12	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	5.18	0.200	--	22.5	0.869	--		1
p/m-Xylene	23.9	0.400	--	104	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24**SAMPLE RESULTS**

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	8.03	0.200	--	34.9	0.869	--		1
4-Ethyltoluene	0.356	0.200	--	1.75	0.983	--		1
1,3,5-Trimethylbenzene	0.378	0.200	--	1.86	0.983	--		1
1,2,4-Trimethylbenzene	1.22	0.200	--	6.00	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

SAMPLE RESULTS

Lab ID: L2419951-02
 Client ID: POST
 Sample Location: 155 CHANDLER ST.

Date Collected: 04/11/24 12:16
 Date Received: 04/11/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 04/26/24 05:52
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1

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



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 04/25/24 13:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1913405-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

Method Blank Analysis

Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/25/24 13:53

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1913406-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Qual	Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3											
Dichlorodifluoromethane	79			-			70-130		-		
Chloromethane	78			-			70-130		-		
Freon-114	90			-			70-130		-		
Vinyl chloride	70			-			70-130		-		
1,3-Butadiene	88			-			70-130		-		
Bromomethane	73			-			70-130		-		
Chloroethane	68		Q	-			70-130		-		
Ethanol	76			-			40-160		-		
Vinyl bromide	79			-			70-130		-		
Acetone	78			-			40-160		-		
Trichlorofluoromethane	78			-			70-130		-		
Isopropanol	79			-			40-160		-		
1,1-Dichloroethene	80			-			70-130		-		
Tertiary butyl Alcohol	74			-			70-130		-		
Methylene chloride	83			-			70-130		-		
3-Chloropropene	102			-			70-130		-		
Carbon disulfide	97			-			70-130		-		
Freon-113	88			-			70-130		-		
trans-1,2-Dichloroethene	82			-			70-130		-		
1,1-Dichloroethane	81			-			70-130		-		
Methyl tert butyl ether	99			-			70-130		-		
2-Butanone	94			-			70-130		-		
cis-1,2-Dichloroethene	79			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3														
Ethyl Acetate	87			-			70-130		-					
Chloroform	85			-			70-130		-					
Tetrahydrofuran	98			-			70-130		-					
1,2-Dichloroethane	79			-			70-130		-					
n-Hexane	81			-			70-130		-					
1,1,1-Trichloroethane	86			-			70-130		-					
Benzene	81			-			70-130		-					
Carbon tetrachloride	95			-			70-130		-					
Cyclohexane	82			-			70-130		-					
1,2-Dichloropropane	81			-			70-130		-					
Bromodichloromethane	98			-			70-130		-					
1,4-Dioxane	86			-			70-130		-					
Trichloroethene	82			-			70-130		-					
2,2,4-Trimethylpentane	82			-			70-130		-					
Heptane	105			-			70-130		-					
cis-1,3-Dichloropropene	98			-			70-130		-					
4-Methyl-2-pentanone	106			-			70-130		-					
trans-1,3-Dichloropropene	96			-			70-130		-					
1,1,2-Trichloroethane	85			-			70-130		-					
Toluene	78			-			70-130		-					
2-Hexanone	115			-			70-130		-					
Dibromochloromethane	109			-			70-130		-					
1,2-Dibromoethane	102			-			70-130		-					

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913405-3								
Tetrachloroethene	91	-	-	-	70-130	-	-	-
Chlorobenzene	95	-	-	-	70-130	-	-	-
Ethylbenzene	82	-	-	-	70-130	-	-	-
p/m-Xylene	86	-	-	-	70-130	-	-	-
Bromoform	112	-	-	-	70-130	-	-	-
Styrene	98	-	-	-	70-130	-	-	-
1,1,2,2-Tetrachloroethane	91	-	-	-	70-130	-	-	-
o-Xylene	88	-	-	-	70-130	-	-	-
4-Ethyltoluene	104	-	-	-	70-130	-	-	-
1,3,5-Trimethylbenzene	100	-	-	-	70-130	-	-	-
1,2,4-Trimethylbenzene	98	-	-	-	70-130	-	-	-
Benzyl chloride	90	-	-	-	70-130	-	-	-
1,3-Dichlorobenzene	97	-	-	-	70-130	-	-	-
1,4-Dichlorobenzene	95	-	-	-	70-130	-	-	-
1,2-Dichlorobenzene	94	-	-	-	70-130	-	-	-
1,2,4-Trichlorobenzene	80	-	-	-	70-130	-	-	-
Naphthalene	76	-	-	-	70-130	-	-	-
Hexachlorobutadiene	80	-	-	-	70-130	-	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1913406-3								
Vinyl chloride	71		-		70-130	-		25
Chloroethane	73		-		70-130	-		25



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler NA
Custody Seal Absent

Container Information			Initial		Final		Temp		Frozen		Analysis(*)
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time			
L2419951-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent			TO15-LL(30), TO15-SIM(30)	
L2419951-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent			TO15-LL(30), TO15-SIM(30)	
L2419951-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent			TO15-SIM(30), TO15-LL(30)	
L2419951-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent			TO15-SIM(30), TO15-LL(30)	

*Values in parentheses indicate holding time in days



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2419951**Project Number:** 01101**Report Date:** 04/26/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2419951
Report Date: 04/26/24

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.





ANALYTICAL REPORT

Lab Number:	L2438431
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER PRE/POST CARBON
Project Number:	01101
Report Date:	07/16/24

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2438431-01	PRE CARBON	SOIL_VAPOR	155 CHANDLER ST.	07/09/24 09:10	07/09/24
L2438431-02	POST CARBON	SOIL_VAPOR	155 CHANDLER ST.	07/09/24 09:00	07/09/24



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Case Narrative (continued)

Volatile Organics in Air

L2438431-01 and -02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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:

 Jennifer Jerome

Title: Technical Director/Representative

Date: 07/16/24

AIR

Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/13/24 01:02
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.423	0.200	--	2.09	0.989	--		1
Chloromethane	0.231	0.200	--	0.477	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	26.9	5.00	--	50.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.2	1.00	--	50.4	2.38	--		1
Trichlorofluoromethane	0.312	0.200	--	1.75	1.12	--		1
Isopropanol	63.5	0.500	--	156	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.738	0.500	--	2.24	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.971	0.200	--	3.02	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.299	0.200	--	1.19	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	0.662	0.500	--	1.95	1.47	--		1
cis-1,2-Dichloroethene	0.897	0.200	--	3.56	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.81	0.200	--	8.84	0.977	--		1
Tetrahydrofuran	0.659	0.500	--	1.94	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.642	0.200	--	2.26	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.419	0.200	--	1.34	0.639	--		1
Carbon tetrachloride	3.07	0.200	--	19.3	1.26	--		1
Cyclohexane	0.216	0.200	--	0.743	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	52.8	0.200	--	284	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	1.48	0.500	--	6.07	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	1.65	0.200	--	6.22	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.420	0.200	--	2.85	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.394	0.200	--	1.71	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

SAMPLE RESULTS

Lab ID: L2438431-01
 Client ID: PRE CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:10
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.98	0.400	--	8.60	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	0.706	0.200	--	3.07	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	0.277	0.200	--	1.36	0.983	--		1
1,2,4-Trimethylbenzene	1.10	0.200	--	5.41	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	130		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 07/13/24 00:31
 Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.471	0.200	--	2.33	0.989	--		1
Chloromethane	0.253	0.200	--	0.522	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	40.4	5.00	--	76.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	17.8	1.00	--	42.3	2.38	--		1
Trichlorofluoromethane	0.300	0.200	--	1.69	1.12	--		1
Isopropanol	100	0.500	--	246	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.25	0.200	--	3.89	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.246	0.200	--	0.975	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.577	0.500	--	1.70	1.47	--		1
cis-1,2-Dichloroethene	1.07	0.200	--	4.24	0.793	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	9.78	0.500	--	35.2	1.80	--		1
Chloroform	1.79	0.200	--	8.74	0.977	--		1
Tetrahydrofuran	0.893	0.500	--	2.63	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.77	0.200	--	9.76	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.09	0.200	--	6.68	0.639	--		1
Carbon tetrachloride	4.52	0.200	--	28.4	1.26	--		1
Cyclohexane	0.386	0.200	--	1.33	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	71.3	0.200	--	383	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.211	0.200	--	0.865	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.17	0.200	--	11.9	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.633	0.200	--	2.75	0.869	--		1



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24**SAMPLE RESULTS**

Lab ID: L2438431-02
 Client ID: POST CARBON
 Sample Location: 155 CHANDLER ST.

Date Collected: 07/09/24 09:00
 Date Received: 07/09/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.10	0.400	--	13.5	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	1.04	0.200	--	4.52	0.869	--		1
4-Ethyltoluene	0.278	0.200	--	1.37	0.983	--		1
1,3,5-Trimethylbenzene	0.319	0.200	--	1.57	0.983	--		1
1,2,4-Trimethylbenzene	1.25	0.200	--	6.15	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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	106		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	130		60-140



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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: 155 CHANDLER PRE/POST CARBON

Lab Number: L2438431

Project Number: 01101

Report Date: 07/16/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 07/12/24 13:30

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1946353-4								
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
Naphthalene	ND	0.200	--	ND	1.05	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3														
Dichlorodifluoromethane	89			-			70-130		-					
Chloromethane	106			-			70-130		-					
Freon-114	120			-			70-130		-					
Vinyl chloride	107			-			70-130		-					
1,3-Butadiene	125			-			70-130		-					
Bromomethane	105			-			70-130		-					
Chloroethane	104			-			70-130		-					
Ethanol	94			-			40-160		-					
Vinyl bromide	93			-			70-130		-					
Acetone	81			-			40-160		-					
Trichlorofluoromethane	74			-			70-130		-					
Isopropanol	76			-			40-160		-					
1,1-Dichloroethene	100			-			70-130		-					
Tertiary butyl Alcohol	104			-			70-130		-					
Methylene chloride	111			-			70-130		-					
3-Chloropropene	110			-			70-130		-					
Carbon disulfide	118			-			70-130		-					
Freon-113	109			-			70-130		-					
trans-1,2-Dichloroethene	103			-			70-130		-					
1,1-Dichloroethane	98			-			70-130		-					
Methyl tert butyl ether	104			-			70-130		-					
2-Butanone	93			-			70-130		-					
cis-1,2-Dichloroethene	101			-			70-130		-					

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	RPD	
	%Recovery			%Recovery			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3											
Ethyl Acetate	122			-			70-130		-		
Chloroform	102			-			70-130		-		
Tetrahydrofuran	97			-			70-130		-		
1,2-Dichloroethane	71			-			70-130		-		
n-Hexane	118			-			70-130		-		
1,1,1-Trichloroethane	76			-			70-130		-		
Benzene	110			-			70-130		-		
Carbon tetrachloride	82			-			70-130		-		
Cyclohexane	118			-			70-130		-		
1,2-Dichloropropane	100			-			70-130		-		
Bromodichloromethane	101			-			70-130		-		
1,4-Dioxane	110			-			70-130		-		
Trichloroethene	104			-			70-130		-		
2,2,4-Trimethylpentane	120			-			70-130		-		
Heptane	97			-			70-130		-		
cis-1,3-Dichloropropene	110			-			70-130		-		
4-Methyl-2-pentanone	95			-			70-130		-		
trans-1,3-Dichloropropene	104			-			70-130		-		
1,1,2-Trichloroethane	103			-			70-130		-		
Toluene	102			-			70-130		-		
2-Hexanone	104			-			70-130		-		
Dibromochloromethane	114			-			70-130		-		
1,2-Dibromoethane	120			-			70-130		-		



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Parameter	LCS		Qual	LCSD		Qual	%Recovery		RPD	Qual		RPD	Limits	
	%Recovery			%Recovery			Limits			Limits			Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1946353-3														
Tetrachloroethene	115			-			70-130		-					
Chlorobenzene	123			-			70-130		-					
Ethylbenzene	107			-			70-130		-					
p/m-Xylene	108			-			70-130		-					
Bromoform	118			-			70-130		-					
Styrene	122			-			70-130		-					
1,1,2,2-Tetrachloroethane	130			-			70-130		-					
o-Xylene	110			-			70-130		-					
4-Ethyltoluene	117			-			70-130		-					
1,3,5-Trimethylbenzene	121			-			70-130		-					
1,2,4-Trimethylbenzene	118			-			70-130		-					
Benzyl chloride	126			-			70-130		-					
1,3-Dichlorobenzene	128			-			70-130		-					
1,4-Dichlorobenzene	124			-			70-130		-					
1,2-Dichlorobenzene	122			-			70-130		-					
1,2,4-Trichlorobenzene	130			-			70-130		-					
Naphthalene	119			-			70-130		-					
Hexachlorobutadiene	118			-			70-130		-					



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler NA
Custody Seal Absent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2438431-01A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-01X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-02A	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)
L2438431-02X	Tedlar Bag 5 liter-Polypropylene Fitting	NA	NA			Y	Absent		TO15-LL(30)



Project Name: 155 CHANDLER PRE/POST CARBON**Lab Number:** L2438431**Project Number:** 01101**Report Date:** 07/16/24

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: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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.

Report Format: Data Usability Report



Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER PRE/POST CARBON
Project Number: 01101

Lab Number: L2438431
Report Date: 07/16/24

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.



AIR ANALYSIS

CHAIN OF CUSTODY

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

Client Information

Client: Env. Advantage, Inc.
Address: 3636 N. Buffalo Rd.
Orchard Park NY 14126
Phone: 716-667-3130
Fax: 716-667-3156

Email: mhanna@envadvantage.com

1] These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments: Please also email: MSZustak@envadvantage.com
Project-Specific Target Compound List: ☐ labresults@envadvantage.com

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

[illegible]

***SAMPLE MATRIX CODES**

Relinquished By:

Date/Time

Received By:

Date/Time:

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

APPENDIX E

DATA USABILITY SUMMARY REPORTS EQUIS DATA SUBMITAL CONFIRMATIONS

Data Usability Summary Report

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

155 Chandler St.
SDG#L2401917
April 17, 2024
Sampling date: 1/9/2024

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

155 Chandler St.
SDG# L2401917

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Environmental Advantage, project located at 155 Chandler St., Alpha Analytical, SDG#L2401917 submitted to Vali-Data of WNY, LLC on February 15, 2024. 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-2	L2401917-01
2	IA-6	L2401917-02
3	IA-6 DUPLICATE	L2401917-03
4	IA-7	L2401917-04
5	IA-8	L2401917-05
6	IA-9	L2401917-06
7	IA-10/IA-11	L2401917-07
8	IA-12	L2401917-08

VOLATILE ORGANIC COMPOUNDS

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

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

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

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

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

All results were recorded to the reporting limits.

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

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Benzyl chloride was outside QC limits, high in WG1876453-3. This target analyte was not detected in the associated samples, so no further action is required.

MS/MSD/DUPLICATE

No MS/MSD/Duplicate was acquired.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except several target analytes were outside QC limits in the Initial Calibration Verification and should be qualified as estimated in the associated samples, blanks and spikes.

ICal/ICV Instrument	Target Analyte	%RSD/%D	Qualifier	Associated Sample
ICV Airpiano4	Benzyl chloride	-35.9	UJ/J	WG1846453, 1-8, 5DUP
ICV Airpiano4	Ethyl acetate	-31.1	UJ/J	WG1846453, 1-8, 5DUP
ICV Airpiano4	Cyclohexane	-32.6	UJ/J	WG1846453, 1-8, 5DUP

CONTINUING CALIBRATION

All criteria were met.

GC/MS PERFORMANCE CHECK

All criteria were met.

CANISTER CERTIFICATION BLANKS

All criteria were met.

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

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.

Project Name: ANNUAL SSDS VERIFICATION
Project Number: 01101

Lab Number: L2401917
Report Date: 01/23/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 20, 2023. The canister certification data is provided as an addendum.

The WG1876453-3 LCS recovery for benzyl chloride (134%), associated with L2401917-01 through -08, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature: 

Report Date: 01/23/24

Title: Technical Director/Representative

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Environmental Advantage, Inc. Lab Number : L2401917
 Project Name : ANNUAL SSDS VERIFICATION Project Number : 01101
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1876453-3 Analysis Date : 01/20/24 12:48 File ID : r431318
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	11.2	112				-	70-130	-
o-Xylene	10	10.8	108				-	70-130	-
4-Ethyltoluene	10	11.7	117				-	70-130	-
1,3,5-Trimethylbenzene	10	10.3	103				-	70-130	-
1,2,4-Trimethylbenzene	10	11.6	116				-	70-130	-
Benzyl chloride	10	13.4	134 Q				-	70-130	-
1,3-Dichlorobenzene	10	10.6	106				-	70-130	-
1,4-Dichlorobenzene	10	11.0	110				-	70-130	-
1,2-Dichlorobenzene	10	10.5	105				-	70-130	-
1,2,4-Trichlorobenzene	10	11.6	116				-	70-130	-
Hexachlorobutadiene	10	10.7	107				-	70-130	-



Results Summary

Form 1

Volatile Organics in Air

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-01
 Client ID : OA-2
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431322
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:13
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 17:36
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.512	0.200	--	2.53	0.989	--	
74-87-3	Chloromethane	0.586	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	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.71	1.00	--	8.81	2.38	--	
75-69-4	Trichlorofluoromethane	0.253	0.200	--	1.42	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	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
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-01
 Client ID : OA-2
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431322
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:13
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 17:36
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.338	0.200	--	1.27	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-01
 Client ID : OA-2
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431322
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:13
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 17:36
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-02
 Client ID : IA-6
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431323
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:21
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:13
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.500	0.200	--	2.47	0.989	--	
74-87-3	Chloromethane	0.573	0.200	--	1.18	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	29.1	5.00	--	54.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.57	1.00	--	8.48	2.38	--	
75-69-4	Trichlorofluoromethane	0.248	0.200	--	1.39	1.12	--	
67-63-0	Isopropanol	3.83	0.500	--	9.41	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	0.518	0.500	--	1.53	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	1.07	0.200	--	3.77	0.705	--	
71-43-2	Benzene	0.339	0.200	--	1.08	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-02
 Client ID : IA-6
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431323
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:21
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:13
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.542	0.200	--	1.87	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
540-84-1	2,2,4-Trimethylpentane	0.789	0.200	--	3.69	0.934	--	
142-82-5	Heptane	0.877	0.200	--	3.59	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	2.19	0.200	--	8.25	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	0.240	0.200	--	1.04	0.869	--	
179601-23-1	p/m-Xylene	0.859	0.400	--	3.73	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	0.310	0.200	--	1.35	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-02
 Client ID : IA-6
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431323
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:21
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:13
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-03
 Client ID : IA-6 DUPLICATE
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431324
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:22
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:49
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.509	0.200	--	2.52	0.989	--	
74-87-3	Chloromethane	0.642	0.200	--	1.33	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	34.5	5.00	--	65.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.84	1.00	--	13.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--	
67-63-0	Isopropanol	3.87	0.500	--	9.51	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	0.539	0.500	--	1.59	1.47	--	
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	0.585	0.500	--	1.73	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	1.19	0.200	--	4.19	0.705	--	
71-43-2	Benzene	0.365	0.200	--	1.17	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-03
 Client ID : IA-6 DUPLICATE
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431324
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:22
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:49
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.632	0.200	--	2.18	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
540-84-1	2,2,4-Trimethylpentane	0.858	0.200	--	4.01	0.934	--	
142-82-5	Heptane	0.985	0.200	--	4.04	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	2.41	0.200	--	9.08	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	0.268	0.200	--	1.16	0.869	--	
179601-23-1	p/m-Xylene	0.946	0.400	--	4.11	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	0.352	0.200	--	1.53	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-03
 Client ID : IA-6 DUPLICATE
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431324
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:22
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:49
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-04
 Client ID : IA-7
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431325
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 19:25
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.521	0.200	--	2.58	0.989	--	
74-87-3	Chloromethane	0.610	0.200	--	1.26	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	39.1	5.00	--	73.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.79	1.00	--	11.4	2.38	--	
75-69-4	Trichlorofluoromethane	0.255	0.200	--	1.43	1.12	--	
67-63-0	Isopropanol	5.12	0.500	--	12.6	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	0.553	0.500	--	1.63	1.47	--	
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	0.987	0.500	--	2.91	1.47	--	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-04
 Client ID : IA-7
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431325
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 19:25
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.481	0.200	--	1.81	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-04
 Client ID : IA-7
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431325
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 19:25
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-05
 Client ID : IA-8
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431326
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:02
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.525	0.200	--	2.60	0.989	--	
74-87-3	Chloromethane	0.582	0.200	--	1.20	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	43.8	5.00	--	82.5	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.52	1.00	--	8.36	2.38	--	
75-69-4	Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--	
67-63-0	Isopropanol	6.02	0.500	--	14.8	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	0.614	0.500	--	1.81	1.47	--	
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	1.10	0.500	--	3.24	1.47	--	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-05
 Client ID : IA-8
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431326
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:02
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.348	0.200	--	1.31	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-05
 Client ID : IA-8
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431326
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:02
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-06
 Client ID : IA-9
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431328
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:15
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.534	0.200	--	2.64	0.989	--	
74-87-3	Chloromethane	0.572	0.200	--	1.18	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	51.1	5.00	--	96.3	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.29	1.00	--	7.82	2.38	--	
75-69-4	Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--	
67-63-0	Isopropanol	5.44	0.500	--	13.4	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	0.349	0.200	--	1.09	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	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	0.879	0.500	--	2.59	1.47	--	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-06
 Client ID : IA-9
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431328
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:15
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.322	0.200	--	1.21	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-06
 Client ID : IA-9
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431328
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:15
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-07
 Client ID : IA-10/IA-11
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431329
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:18
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:51
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.542	0.200	--	2.68	0.989	--	
74-87-3	Chloromethane	0.583	0.200	--	1.20	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	38.7	5.00	--	72.9	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.02	1.00	--	9.55	2.38	--	
75-69-4	Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--	
67-63-0	Isopropanol	6.39	0.500	--	15.7	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	0.679	0.500	--	2.00	1.47	--	
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	1.29	0.500	--	3.80	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.253	0.200	--	0.892	0.705	--	
71-43-2	Benzene	0.209	0.200	--	0.668	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-07
 Client ID : IA-10/IA-11
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431329
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:18
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:51
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.511	0.200	--	1.93	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-07
 Client ID : IA-10/IA-11
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431329
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:18
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:51
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-08
 Client ID : IA-12
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431330
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:26
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 22:27
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.533	0.200	--	2.64	0.989	--	
74-87-3	Chloromethane	0.621	0.200	--	1.28	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	46.0	5.00	--	86.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.52	1.00	--	15.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.256	0.200	--	1.44	1.12	--	
67-63-0	Isopropanol	16.1	0.500	--	39.6	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	1.04	0.500	--	3.07	1.47	--	
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	1.64	0.500	--	4.84	1.47	--	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-08
 Client ID : IA-12
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431330
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:26
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 22:27
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.351	0.200	--	1.44	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	0.375	0.200	--	1.41	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-08
 Client ID : IA-12
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431330
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:26
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 22:27
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-4
 Client ID : WG1876453-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431320
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/20/24 16:24
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-4
 Client ID : WG1876453-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431320
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/20/24 16:24
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-4
 Client ID : WG1876453-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431320
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/20/24 16:24
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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

Results Summary

Form 1

Volatile Organics in Air

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-5
 Client ID : IA-8DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431327
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:38
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.523	0.200	--	2.59	0.989	--	
74-87-3	Chloromethane	0.597	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	42.2	5.00	--	79.5	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.50	1.00	--	8.31	2.38	--	
75-69-4	Trichlorofluoromethane	0.260	0.200	--	1.46	1.12	--	
67-63-0	Isopropanol	5.81	0.500	--	14.3	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	0.608	0.500	--	1.79	1.47	--	
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	1.09	0.500	--	3.21	1.47	--	
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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-5
 Client ID : IA-8DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431327
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:38
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.359	0.200	--	1.35	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876453-5
 Client ID : IA-8DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R431327
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:38
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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 : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\
 Data File : r431181.D
 Acq On : 14 Jan 2024 11:22 AM
 Operator : AIRPIAN04:RAY
 Sample : CT015-LLSTD010
 Misc : WG1874507
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 15 15:08:50 2024
 Quant Method : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\TFS4_240113.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 15 15:05:38 2024
 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	89	-0.02
2	chlorodifluoromethane	0.820	0.883	-7.7	91	-0.02
3	propylene	0.472	0.537	-13.8	98	-0.02
4	propane	0.696	0.718	-3.2	100	-0.02
5	dichlorodifluoromethane	1.041	1.080	-3.7	84	-0.02
6 C	chloromethane	0.496	0.482	2.8	81	-0.02
7	Freon-114	1.144	1.321	-15.5	91	-0.02
8 C	methanol	0.276	0.268	2.9	91	-0.02
9 C	vinyl chloride	0.547	0.630	-15.2	93	-0.02
10 C	1,3-butadiene	0.456	0.578	-26.8	101	-0.02
11	butane	0.828	0.849	-2.5	94	-0.02
13 C	bromomethane	0.416	0.479	-15.1	93	-0.02
14 C	chloroethane	0.274	0.326	-19.0	98	-0.02
15	ethanol	0.420	0.520	-23.8	103	-0.02
16	dichlorofluoromethane	0.892	0.966	-8.3	93	-0.02
17 C	vinyl bromide	0.394	0.451	-14.5	92	-0.02
18 C	acrolein	0.253	0.283	-11.9	96	-0.02
19	acetone	0.625	0.680	-8.8	95	-0.02
20 C	acetonitrile	0.453	0.506	-11.7	100	-0.02
21	trichlorofluoromethane	0.790	0.839	-6.2	87	-0.02
22	isopropyl alcohol	0.837	0.852	-1.8	90	-0.02
23 C	acrylonitrile	0.491	0.552	-12.4	94	-0.02
24	pentane	1.130	1.127	0.3	84	-0.02
25	ethyl ether	0.944	1.188	-25.8	105	-0.02
26 C	1,1-dichloroethene	0.752	0.897	-19.3	95	-0.02
27	tertiary butyl alcohol	1.072	1.298	-21.1	104	-0.02
28 C	methylene chloride	0.774	0.762	1.6	86	-0.02
29 C	3-chloropropene	0.770	0.920	-19.5	94	-0.02
30 C	carbon disulfide	1.689	1.807	-7.0	85	-0.02
31	Freon 113	0.973	1.035	-6.4	87	-0.02
32	trans-1,2-dichloroethene	0.730	0.908	-24.4	99	-0.02
33 C	1,1-dichloroethane	0.954	1.080	-13.2	92	-0.02
34 C	MTBE	1.447	1.673	-15.6	89	-0.02
35 C	vinyl acetate	1.252	1.259	-0.6	80	-0.03
36 C	2-butanone	1.276	1.366	-7.1	87	-0.02
37	cis-1,2-dichloroethene	0.692	0.835	-20.7	95	-0.03
38	Ethyl Acetate	0.190	0.249	-31.1#	106	-0.02
39 C	chloroform	1.020	1.140	-11.8	89	-0.03
40	Tetrahydrofuran	0.752	0.825	-9.7	87	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\
 Data File : r431181.D
 Acq On : 14 Jan 2024 11:22 AM
 Operator : AIRPIAN04:RAY
 Sample : CT015-LLSTD010
 Misc : WG1874507
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 15 15:08:50 2024
 Quant Method : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\TFS4_240113.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 15 15:05:38 2024
 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)
41	2,2-dichloropropane	0.822	0.872	-6.1	86	-0.03
42 C	1,2-dichloroethane	0.615	0.642	-4.4	86	-0.03
43 I	1,4-difluorobenzene	1.000	1.000	0.0	91	-0.02
44 C	hexane	0.374	0.485	-29.7	106	-0.03
45	diisopropyl ether	0.208	0.243	-16.8	97	-0.02
46	tert-butyl ethyl ether	0.663	0.797	-20.2	100	-0.02
47 s	1,2-dichloroethane-D4	0.394	0.382	3.0	87	-0.02
48 C	1,1,1-trichloroethane	0.318	0.331	-4.1	85	-0.03
49	1,1-dichloropropene	0.313	0.349	-11.5	92	-0.02
50 C	benzene	0.750	0.785	-4.7	84	-0.02
52 C	carbon tetrachloride	0.302	0.318	-5.3	85	-0.03
53	cyclohexane	0.399	0.529	-32.6#	108	-0.03
54	tert-amyl methyl ether	0.653	0.702	-7.5	88	-0.02
55	dibromomethane	0.200	0.223	-11.5	94	-0.02
56 C	1,2-dichloropropane	0.247	0.273	-10.5	91	-0.02
57	bromodichloromethane	0.396	0.482	-21.7	99	-0.03
58 C	1,4-dioxane	0.154	0.199	-29.2	105	-0.02
59 C	trichloroethene	0.269	0.292	-8.6	86	-0.02
60 C	2,2,4-trimethylpentane	1.219	1.581	-29.7	107	-0.03
61	methyl methacrylate	0.275	0.316	-14.9	92	-0.02
62	heptane	0.482	0.533	-10.6	88	-0.02
63 C	cis-1,3-dichloropropene	0.383	0.423	-10.4	85	-0.02
64 C	4-methyl-2-pentanone	0.572	0.638	-11.5	88	-0.02
65	trans-1,3-dichloropropene	0.315	0.342	-8.6	83	-0.03
66 C	1,1,2-trichloroethane	0.263	0.281	-6.8	87	-0.02
67 I	chlorobenzene-D5	1.000	1.000	0.0	96	-0.03
68 C	toluene	5.137	5.412	-5.4	89	-0.02
69 s	toluene-D8	7.609	7.272	4.4	90	-0.02
71	1,3-dichloropropane	2.597	2.583	0.5	88	-0.02
72	2-hexanone	3.276	3.555	-8.5	86	-0.03
74	dibromochloromethane	2.109	2.479	-17.5	100	-0.02
75 C	1,2-dibromoethane	2.496	2.494	0.1	83	-0.02
76	butyl acetate	0.818	0.842	-2.9	88	-0.02
77	octane	2.215	2.391	-7.9	95	-0.03
78 C	tetrachloroethene	2.427	2.419	0.3	83	-0.02
79	1,1,1,2-tetrachloroethane	1.649	1.698	-3.0	92	-0.02
80 C	chlorobenzene	4.268	4.457	-4.4	87	-0.02

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\
 Data File : r431181.D
 Acq On : 14 Jan 2024 11:22 AM
 Operator : AIRPIAN04:RAY
 Sample : CT015-LLSTD010
 Misc : WG1874507
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 15 15:08:50 2024
 Quant Method : 0:\Forensics\Data\Airpiano4\2024\01\0113T_I\TFS4_240113.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Jan 15 15:05:38 2024
 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)
81 C	ethylbenzene	6.439	6.929	-7.6	89	-0.02
83 C	m+p-xylene	5.234	5.623	-7.4	88	-0.03
84 C	bromoform	2.235	2.629	-17.6	97	-0.03
85 C	styrene	4.269	4.510	-5.6	85	-0.02
86 C	1,1,2,2-tetrachloroethane	3.892	4.382	-12.6	92	-0.02
87 C	o-xylene	5.155	5.667	-9.9	89	-0.02
88	1,2,3-trichloropropane	3.120	3.137	-0.5	89	-0.02
89	nonane	4.541	4.466	1.7	84	-0.02
90 s	bromofluorobenzene	5.098	4.862	4.6	90	-0.02
91 C	isopropylbenzene	6.695	7.291	-8.9	94	-0.02
92	bromobenzene	4.082	4.318	-5.8	92	-0.02
93	2-chlorotoluene	1.862	1.994	-7.1	95	-0.02
94	n-propylbenzene	2.204	2.450	-11.2	95	-0.02
95	4-chlorotoluene	1.805	1.958	-8.5	94	-0.02
96	4-ethyl toluene	6.948	7.916	-13.9	94	-0.02
97	1,3,5-trimethylbenzene	5.718	6.247	-9.3	90	-0.02
98	tert-butylbenzene	6.279	7.366	-17.3	94	-0.02
99	1,2,4-trimethylbenzene	6.340	7.324	-15.5	89	-0.02
100	decane	5.069	6.027	-18.9	101	-0.02
101 C	Benzyl Chloride	3.752	5.098	-35.9#	104	0.00
102	1,3-dichlorobenzene	3.864	4.075	-5.5	88	-0.02
103 C	1,4-dichlorobenzene	3.698	4.007	-8.4	88	0.00
104	sec-butylbenzene	8.352	8.956	-7.2	92	-0.02
106	p-isopropyltoluene	7.011	7.543	-7.6	89	-0.02
107	1,2-dichlorobenzene	3.647	3.837	-5.2	88	-0.02
108	n-butylbenzene	6.317	7.461	-18.1	101	-0.02
111 C	1,2-dibromo-3-chloropropane	1.708	1.858	-8.8	93	-0.02
112	undecane	5.288	6.678	-26.3	104	-0.02
114	dodecane	4.927	6.638	-34.7#	105	-0.02
115 C	1,2,4-trichlorobenzene	3.075	3.521	-14.5	86	-0.02
116	naphthalene	5.948	7.364	-23.8	109	-0.02
117	1,2,3-trichlorobenzene	2.759	3.311	-20.0	107	-0.02
119 C	hexachlorobutadiene	3.092	3.295	-6.6	84	-0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-01
 Client ID : OA-2
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431322_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:13
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 17:36
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.079	0.020	--	0.497	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.033	0.020	--	0.224	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-02
 Client ID : IA-6
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431323_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:21
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:13
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.076	0.020	--	0.478	0.126	--	
79-01-6	Trichloroethene	0.071	0.020	--	0.382	0.107	--	
127-18-4	Tetrachloroethene	0.033	0.020	--	0.224	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-03
 Client ID : IA-6 DUPLICATE
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431324_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:22
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 18:49
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.076	0.020	--	0.478	0.126	--	
79-01-6	Trichloroethene	0.074	0.020	--	0.398	0.107	--	
127-18-4	Tetrachloroethene	0.043	0.020	--	0.292	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-04
 Client ID : IA-7
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431325_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 19:25
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.083	0.020	--	0.522	0.126	--	
79-01-6	Trichloroethene	0.139	0.020	--	0.747	0.107	--	
127-18-4	Tetrachloroethene	0.040	0.020	--	0.271	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-05
 Client ID : IA-8
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431326_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:02
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.082	0.020	--	0.516	0.126	--	
79-01-6	Trichloroethene	0.169	0.020	--	0.908	0.107	--	
127-18-4	Tetrachloroethene	0.040	0.020	--	0.271	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-06
 Client ID : IA-9
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431328_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:16
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:15
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.035	0.020	--	0.139	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.082	0.020	--	0.516	0.126	--	
79-01-6	Trichloroethene	0.154	0.020	--	0.828	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.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-07
 Client ID : IA-10/IA-11
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431329_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:18
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 21:51
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.091	0.020	--	0.572	0.126	--	
79-01-6	Trichloroethene	0.213	0.020	--	1.14	0.107	--	
127-18-4	Tetrachloroethene	0.109	0.020	--	0.739	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : L2401917-08
 Client ID : IA-12
 Sample Location : 155 CHANDLER ST
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431330_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:26
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 22:27
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.088	0.020	--	0.554	0.126	--	
79-01-6	Trichloroethene	0.290	0.020	--	1.56	0.107	--	
127-18-4	Tetrachloroethene	0.039	0.020	--	0.264	0.136	--	

Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876455-4
 Client ID : WG1876455-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431321_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 01/20/24 17:00
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Environmental Advantage, Inc.
 Project Name : ANNUAL SSDS VERIFICATION
 Lab ID : WG1876455-5
 Client ID : IA-8DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R431327_EV2
 Sample Amount : 250 ml

Lab Number : L2401917
 Project Number : 01101
 Date Collected : 01/09/24 16:15
 Date Received : 01/11/24
 Date Analyzed : 01/20/24 20:38
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRPIANO4
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
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	0.092	0.020	--	0.579	0.126	--	
79-01-6	Trichloroethene	0.177	0.020	--	0.951	0.107	--	
127-18-4	Tetrachloroethene	0.040	0.020	--	0.271	0.136	--	



From: dec.sm.NYENVDATA
To: "Mallory Behlmaier"
Cc: [Rylee Hooker](#); ["Mary Szustak"](#); [Kuczka, Megan E \(DEC\)](#)
Subject: RE: Pierce Arrow Business Center Site BCP #C915312 - Electronic Data Deliverable PRR 2023-2024
Date: Wednesday, October 2, 2024 3:34:11 PM
Attachments: [image001.png](#)

Mallory,

Thank you for your EDD submission. NYSDEC has successfully uploaded the data from the EDD "20240514 1040.C915312.NYSDEC_MERGE" to Pierce Arrow Business Center in the NYSDEC EQuIS database and the data is available for use within the system.

Aaron and the
NYSDEC EIMS Team



From: Mallory Behlmaier <mbehlmaier@envadvantage.com>
Sent: Monday, July 1, 2024 12:44 PM
To: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Cc: Rylee Hooker <rhooker@envadvantage.com>; 'Mary Szustak' <MSzustak@envadvantage.com>
Subject: Pierce Arrow Business Center Site BCP #C915312 - Electronic Data Deliverable PRR 2023-2024

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good afternoon,

Please find attached one zip file containing the following data set for BCP Site C915312 –
Pierce Arrow Business Center

L2401917

Thank you,
Mallory

Mallory Behlmaier, Sr. Project Scientist
Due Diligence Team Lead
Environmental Advantage, Inc.
3636 N. Buffalo Road
Orchard Park, NY 14127
Phone (716) 667-3130 ext. 118
Fax (716) 667-3156
mbehlmaier@envadvantage.com

www.envadvantage.com

CONFIDENTIALITY NOTICE

This electronic transmission, including any attachments, may contain confidential information belonging to the sender and is intended only for receipt by the individual or entity named. If you believe you have received this transmission in error, please notify the sender immediately by return e-mail and delete and erase this transmission from your system. Further, you are hereby notified that any disclosure, copying, distribution, use or dissemination of the transmission or its contents, or the taking of any action in reliance on the contents of this transmission, is strictly prohibited. WARNING: Electronic transmissions are not guaranteed to be timely, error-free, secure, or free of malicious code, and the sender accepts no liability for any damage caused by viruses, malicious code, or errors or omissions contained in or resulting from this transmission.

APPENDIX F

INSTITUTIONAL CONTROLS/ ENGINEERING CONTROLS CERTIFICATION



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



Site Details

Box 1

Site No. **C915312**

Site Name **Pierce Arrow Business Center**

Site Address: 155-157 Chandler Street Zip Code: 14207

City/Town: Buffalo

County: Erie

Site Acreage: 2.350

Reporting Period: April 27, 2023 to July 9, 2024

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial

☒ ☐

7. Are all ICs in place and functioning as designed?

☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

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

C. Mark Hanna. CATHM
Signature of Owner, Remedial Party or Designated Representative

07/31/2024

Date

Box 2A

YES NO

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

☐☒

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

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

☒☐

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

SITE NO. C915312**Box 3****Description of Institutional Controls**ParcelOwnerInstitutional Control**77.84-1-4**

R&M Leasing, LLC

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

Monitoring Plan

- . Prohibition of use of groundwater.
- . Restricted Residential Use.
- . Soil Vapor Intrusion Evaluation for any existing or future structures.
- . Soil Management or Excavation Work Plan for any future intrusive work.

77.84-1-5

R&M Leasing, LLC

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

- . Prohibition of use of groundwater.
- . Restricted Residential Use.
- . Soil Vapor Intrusion Evaluation for any future structures.
- . Soil Management or Excavation Work Plan for any future intrusive work.
- . Groundwater Monitoring Plan

Box 4**Description of Engineering Controls**ParcelEngineering Control**77.84-1-4**

Vapor Mitigation

- . Monitoring of the Sub-slab Depressurization System.

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO



2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES NO



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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915312

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I C. Mark Hanna at 3636 N Buffalo Road., Orchard Park, NY 14127,
print name print business address

am certifying as Designated Representative of the Owner (Owner or Remedial Party)

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

C. Mark Hanna, CHMM
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

07/31/2024

Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Christine Curtis at 95 Brown Road, Ithaca, NY 14850
print name print business address

am certifying as a Qualified Environmental Professional for the owner
(Owner or Remedial Party)

Christine Curtis

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



7/31/2024
Date

APPENDIX G

MITIGATION SYSTEM INSTALLATION RECORD

Mitigation System Installation Record

☒ Structure was sampled previously

System Information

Site No: C915312

System ID: 155 Chandler Street SSD

Site Name: Pierce Arrow Business Center

Owner Name: R&M Leasing LLC

☐ Owner Occupied

System Address: 155 Chandler Street

Telephone:

City: Buffalo Zip: 14207

Alt. Telephone:

Contractor Information

Installer Name: Matrix Environmental Technologies Inc.

Company:

Telephone: 716-662-0745

Building Conditions

Building Type: Multi-Use Building

Slab Integrity: ☐ Poor ☐ Average ☒ Good ☐ Excellent

Slab Penetrations: ☐ Sump ☒ Floor drain ☐ Perimeter drain ☐ Other

Describe:

In Cidery Additional Seating Area

Observed Water: ☒ Dry ☐ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Jun 11, 2024

Slab Thickness (inches): 3 to 5 in

Subslab Material: Clay

Subslab Moisture: Damp

Number of Suction Points: 3

Number of Fans Installed: 1

☒ Fan #1 Operating

☐ Fan #2 Operating

☐ Fan #3 Operating

Fan Model No(s): GAST R6335A-2

Fan Serial No(s):

Final U-Tube Levels: 25 inches H2O

Additional Mitigation Elements (check all that apply):

☐ Drainjer

☐ Membrane

☐ Sealed cracks

☐ New floor

☐ Rain cap

☐ Other

Comments:

Communication Testing

Test Method: Micromanometer

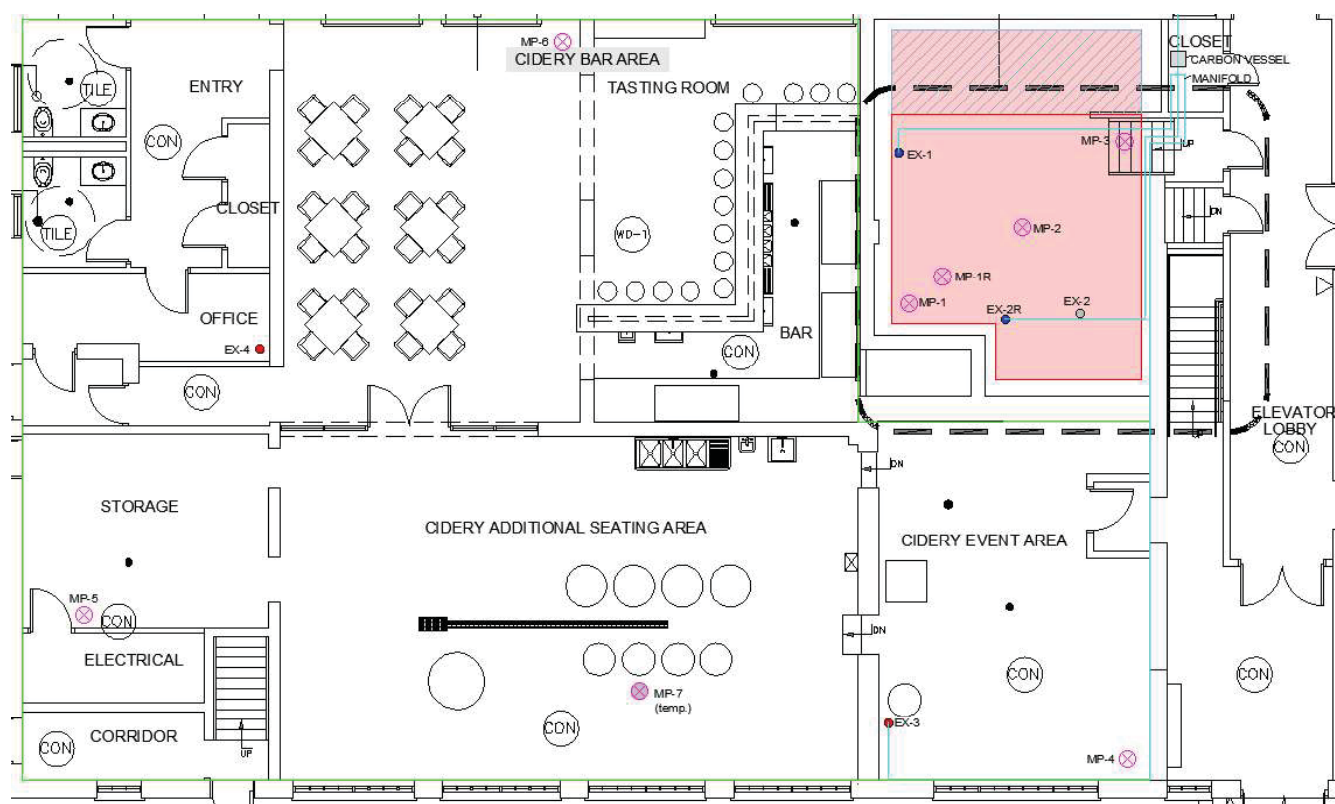
Meter Type/Manufacturer: Dwyer Series 2000

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
MP-1	0.044	7.1	☒
MP-1R	0.211	5.5	☒
MP-2	13.00	6.7	☒
MP-3	40.21	15.4	☒
MP-4	0.504	17.4	☒

System Sketch

(indicate notable features, location of extraction points, and communication test holes)


NORTH



Mitigation System Installation Record

☒ Structure was sampled previously

System Information

Site No: C915312

System ID: 155 Chandler Street SSD

Site Name: Pierce Arrow Business Center

Owner Name: R&M Leasing LLC

☐ Owner Occupied

System Address: 155 Chandler Street

Telephone: _____

City: Buffalo Zip: 14207

Alt. Telephone: _____

Contractor Information

Installer Name: Matrix Environmental Technologies Inc.

Company: _____

Telephone: 716-662-0745

Building Conditions

Building Type: Multi-Use Building

Slab Integrity: ☐ Poor ☐ Average ☒ Good ☐ Excellent

Slab Penetrations: ☐ Sump ☒ Floor drain ☐ Perimeter drain ☐ Other

Describe:

In Cidery Additional Seating Area

Observed Water: ☒ Dry ☐ Damp ☐ Sump only ☐ Standing

Describe:

System Installation

Installation Type: Sub-Slab Depressurization (Active)

Date Installed: Jun 11, 2024

Slab Thickness (inches): 3 to 5 in

Subslab Material: Clay

Subslab Moisture: Damp

Number of Suction Points: 3

Number of Fans Installed: 1

☒ Fan #1 Operating

☐ Fan #2 Operating

☐ Fan #3 Operating

Fan Model No(s): GAST R6335A-2

Fan Serial No(s): _____

Final U-Tube Levels: 25 inches H2O

Additional Mitigation Elements (check all that apply):

☐ Drainjer

☐ Membrane

☐ Sealed cracks

☐ New floor

☐ Rain cap

☐ Other

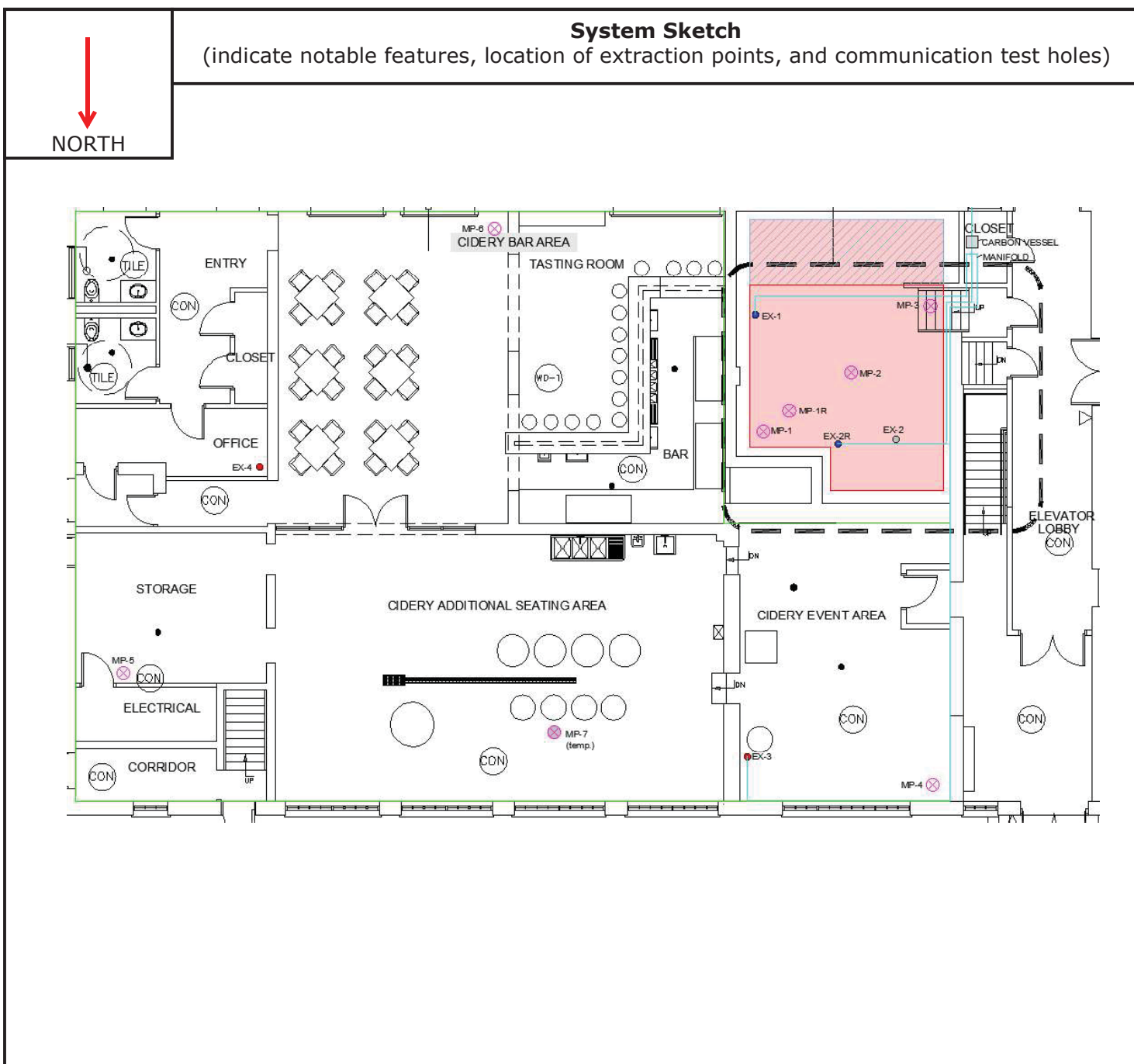
Comments:

Communication Testing

Test Method: Micromanometer

Meter Type/Manufacturer: Dwyer Series 2000

Location	Reading/Result	Dist. From Suction Point (ft)	Passed?
MP-5	0.000	59.0	☐
MP-6	0.000	54.3	☐
			☐
			☐
			☐





**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Material is Quikrete All Purpose Gravel # 1151 supplied from Home Depot. This material meets ASTM C33, Standard Specification for Concrete Aggregates.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Matrix Environmental Technologies, Inc. Purchaser of Material

Location where fill was obtained:

Home Depot

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

N/A. Obtained from a commercial source.

Provide a list of supporting documentation included with this request:

Product Specifications.

The information provided on this form is accurate and complete.

Mary Szusatk

Digitally signed by Mary Szusatk
Date: 2024.10.07 13:27:42
-04'00'

Signature

10/07/2024

Date

Mary Szustak

Print Name

Environmental Advantage, Inc.

Firm



CEMENT & CONCRETE PRODUCTS™

QUIKRETE® SAND & GRAVEL PRODUCTS

PRODUCT DESCRIPTION

QUIKRETE® provides a variety of sands and gravels for general and special uses as follows:



All Purpose Sand #1152:

A general use sand suitable for use as a fine aggregate in concrete, underlayment for brick pavers, traction on snow and ice, and mixing with potting soil. *Meets ASTM C33, Standard Specification for Concrete Aggregates.*

Sizes: 50lb (22.7 kg) – 56 bags per pallet 70lb (31.8 kg) – 42 bags per pallet



All Purpose Gravel #1151:

High quality clean gravel with an approximate top size of 3/8" (10 mm). Suitable for landscaping, concrete manufacture and a variety of other purposes. *Meets ASTM C33, Standard Specification for Concrete Aggregates.*

Sizes: 50lb (22.7 kg) – 56 bags per pallet

Deco Pebbles # 9905-50

Use for landscaping around patios, decks, gardens, etc.

Marble Chips # 9906-50

Use for landscaping around patios, decks, gardens, etc.



Play Sand #1113:

Is specially graded sand that has been washed, dried, and screened for use in children's sandboxes. It is best used when kept damp.

Sizes: 50lb (22.7 kg) – 56 bags per pallet



Tubesand #1159:

This sand is designed in a tube shaped bag that fits along side the rear axle, above the wheel wells, or in the bed of a pick up truck. It is used for traction and vehicle weight for winter driving conditions.

Size: 60lb (27.2 kg) – 42 bags per pallet

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Rd., NE, Suite 1300, Atlanta, GA 30305
(404) 634-9100 • Fax: (404) 842-1425

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APPENDIX H

COMMUNITY AIR MONITORING PROGRAM (CAMP) DATA
&
WASTE DISPOSAL DOCUMENTATION

Work Area Dust Monitoring - EX-3

<u>Instrument Name</u>	<u>DustTrak II</u>
Model Number	8530
Serial Number	8530152906
Firmware Version	3.1
Calibration Date	4/11/2023
<u>Test Name</u>	<u>MANUAL_009</u>
Test Start Time	10:30:27 AM
Test Start Date	10/23/2023
Test Length [D:H:M]	0:00:30
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.095
Mass Minimum [mg/m3]	0.072
Mass Maximum [mg/m3]	0.118
Mass TWA [mg/m3]	0.006
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	2

<u>Elapsed Time [s]</u>	<u>Mass [mg/m3]</u>	<u>Alarms</u>	<u>Errors</u>
900	0.118		
1800	0.072		

Work Area Dust Monitoring - EX-1 and EX-2

<u>Instrument Name</u>	<u>DustTrak II</u>
Model Number	8530
Serial Number	8530152906
Firmware Version	3.1
Calibration Date	4/11/2023
<u>Test Name</u>	<u>MANUAL_010</u>
Test Start Time	1:39:10 PM
Test Start Date	10/23/2023
Test Length [D:H:M]	0:01:15
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.176
Mass Minimum [mg/m3]	0.148
Mass Maximum [mg/m3]	0.214
Mass TWA [mg/m3]	0.027
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	5

<u>Elapsed Time [s]</u>	<u>Mass [mg/m3]</u>	<u>Alarms</u>	<u>Errors</u>
900	0.161		
1800	0.214		
2700	0.148		
3600	0.183		
4500	0.173		

Work Area VOC Monitoring

23/10/23 10:16

Summary

Unit Name MiniRAE 3000 +(PGM-7320)
Unit SN 592-600822
Unit Firmware Ver V2.22A

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID RAE00000
User ID USER0000

Begin 10/23/2023 10:16:46
End 10/23/2023 14:50:26
Sample Period(s) 900
Number of Records 18

Sensor PID(ppm)
Sensor SN S023030303A9
Measure Type Avg
Span 100.0
Span 2 1000.0
Low Alarm 25.0
High Alarm 100.0
Over Alarm 15000.0
STEL Alarm 100.0
TWA Alarm 50.0
Measurement Gas Isobutylene
Calibration Time 9/5/2023 11:34
Peak N/A
Min N/A
Average N/A

Datalog

Index	Date/Time	PID(ppm) (Avg)
001	10/23/2023 10:31:46	0.0
002	10/23/2023 10:46:46	0.0
003	10/23/2023 11:01:46	0.0
004	10/23/2023 11:16:46	0.0
005	10/23/2023 11:31:46	0.0
006	10/23/2023 11:46:46	0.0
007	10/23/2023 12:01:46	0.0
008	10/23/2023 12:16:46	0.0

009	10/23/2023 12:31:46	0.0
010	10/23/2023 12:46:46	0.0
011	10/23/2023 13:01:46	0.0
012	10/23/2023 13:16:46	0.0
013	10/23/2023 13:31:46	0.0
014	10/23/2023 13:46:46	0.0
015	10/23/2023 14:01:46	0.0
016	10/23/2023 14:16:46	0.0
017	10/23/2023 14:31:46	0.0
018	10/23/2023 14:46:46	0.0
Peak	0.0	
Min	0.0	
Average	0.0	

Closest Receptor Dust Monitoring

<u>Instrument Name</u>	<u>DustTrak II</u>
Model Number	8530
Serial Number	8530173304
Firmware Version	3.1
Calibration Date	8/9/2023
<u>Test Name</u>	<u>MANUAL_003</u>
Test Start Time	10:37:25 AM
Test Start Date	10/23/2023
Test Length [D:H:M]	0:04:15
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.022
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.05
Mass TWA [mg/m3]	0.012
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	17

<u>Elapsed Time [s]</u>	<u>Mass [mg/m3]</u>	<u>Alarms</u>	<u>Errors</u>
900	0.016		
1800	0.016		
2700	0.017		
3600	0.016		
4500	0.018		
5400	0.019		
6300	0.021		
7200	0.02		
8100	0.018		
9000	0.017		
9900	0.016		
10800	0.016		
11700	0.017		
12600	0.034		
13500	0.022		
14400	0.037		
15300	0.05		

Closest Receptor VOC Monitoring

Device Serial No	Log Time	Log Type	Log Interval	Sensor 1 Type	Sensor 1 Display Unit	Sensor 1 Serial Number	Sensor 1 Status	Sensor 1 Gas Reading	Sensor 1 Average Reading	Sensor 1 Span Setpoint	Sensor 1 Span2 Setpoint	Sensor 1 High Alarm	Sensor 1 Low Alarm	Session Start Time	Session Stop Time	Firmware Version
592-600822	10/23/2023 2:46:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 2:31:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 2:16:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 2:01:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 1:46:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 1:31:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 1:16:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 1:01:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 12:46:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 12:31:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 12:16:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 12:01:46 PM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 11:46:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 11:31:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 11:16:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 11:01:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 10:46:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 10:31:46 AM	Readings		PID		SC23030303A9	Normal	0.0	0.0							
592-600822	10/23/2023 10:16:46 AM	CONFIG	900	PID	ppm	SC23030303A9				100.0	1000.0	100.0	25.0	10/23/2023 10:16:46 AM	10/23/2023 2:46:46 PM	V2.22A

AMERICAN RECYCLERS COMPANY

Waste Profile Report (WPR)

177 Wales Avenue Tonawanda, New York 14151 Phone (716) 695-6720 Fax (716) 695-0161	APPROVAL NUMBER: A-24083L EXPIRATION DATE: 04/29/25 HANDLING CODE: L

Generator: Pierce Arrow Business Center BCP # C915312 **EPA ID #:** _____
Address: 155-157 Chandler Street **Contact:** Rocco Termini
City: Buffalo **STATE:** NY **ZIP:** 14207 **Phone:** 716-842-1938 **Fax:** _____

Waste Name: Soil Cuttings	Shipping Name: Non RCRA Non DOT Regulated
Generating Process: Extraction well installation	Rate of Generation: Once
	Container Type: 5 Gal Plastic

Composition of Waste	%	%	Phase	%
Soil cuttings	100 -		Solids	
(Analysis attached)	-		Liquid	
BCP Site ID C915312	-		Sludge	
			Debris	

Is the material RCRA listed or Characteristicly Hazardous?	☐ YES	☒ NO
Does the material contain Medical or Biological Wastes?	☐ YES	☒ NO
Does the material contain etiological waste?	☐ YES	☒ NO
Does the material contain, or has it come in contact with PCB's?	☐ YES	☒ NO
Is the material radioactive?	☐ YES	☒ NO
Does the material contain septic or domestic sewage?	☐ YES	☒ NO
Is the material Non-Hazardous as defined by RCRA Title 40?	☒ YES	☐ NO

Check all below which apply:

Material is to be shipped and recycled as Universal Waste	☐ YES	☒ NO
Material is to be shipped and recycled under 6 NYCRR Part 371.1(g)(1)(ii)(b) (ie Computer Equipment & monitors)	☐ YES	☒ NO
Material is being shipped for disposal/recycle via facility transfer/consolidation permit	☒ YES	☐ NO
Material is a Labpack and all contents are CERTIFIED as Non-RCRA	☐ YES	☒ NO
List all Lab Pack Container Numbers: (Attach packing slips to profile)		

I certify that the above submitted information (including any attachments) is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed. All material offered herein is deemed Non-RCRA.

Signer Title: Project Manager
Company: Environmental Advantage, Inc.

Signed: Mary Szustak **Print:** Mary Szustak on behalf of R&M Leasing, LLC **Date:** 4/29/2024

ARC Personnel Reviewed and Approved by:

Approved by: Thomas Szustak **Print:** Tom Martin **Date:** 04/29/24



ANALYTICAL REPORT

Lab Number:	L2421711
Client:	Environmental Advantage, Inc. 3636 North Buffalo Road Orchard Park, NY 14127
ATTN:	Mark Hanna
Phone:	(716) 667-3130
Project Name:	155 CHANDLER SOIL CHARACTER
Project Number:	01101
Report Date:	04/28/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2421711-01	BACEMENT EW	SOIL	BUFFALO, NY	04/17/24 12:00	04/19/24



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

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: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature:  Kelly O'Neill

Title: Technical Director/Representative

Date: 04/28/24

ORGANICS

VOLATILES

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

SAMPLE RESULTS

Lab ID: L2421711-01
Client ID: BACEMENT EW
Sample Location: BUFFALO, NY

Date Collected: 04/17/24 12:00
Date Received: 04/19/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 04/25/24 16:17
Analyst: MKS
Percent Solids: 85%
TCLP/SPLP Ext. Date: 04/24/24 09:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
dibromofluoromethane	117		70-130

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 04/25/24 07:58
 Analyst: MKS
 TCLP/SPLP Extraction Date: 04/24/24 09:17

Extraction Date: 04/24/24 09:17

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1913286-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
dibromofluoromethane	114		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1913286-3 WG1913286-4								
Chloroform	100		110		70-130		10	20
Carbon tetrachloride	110		110		63-132		0	20
Tetrachloroethene	100		100		70-130		0	20
Chlorobenzene	100		100		75-130		0	25
1,2-Dichloroethane	98		100		70-130		2	20
Benzene	110		110		70-130		0	25
Vinyl chloride	110		99		55-140		11	20
1,1-Dichloroethene	110		110		61-145		0	25
Trichloroethene	110		110		70-130		0	25
1,4-Dichlorobenzene	110		100		70-130		10	20
2-Butanone	95		84		63-138		12	20

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	95		93		70-130	
Toluene-d8	98		98		70-130	
4-Bromofluorobenzene	87		90		70-130	
di-bromofluoromethane	102		105		70-130	



PCBS

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

SAMPLE RESULTS

Lab ID: L2421711-01
Client ID: BACEMENT EW
Sample Location: BUFFALO, NY

Date Collected: 04/17/24 12:00
Date Received: 04/19/24
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/23/24 22:17
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 04/23/24 08:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/23/24
Cleanup Method: EPA 3660B
Cleanup Date: 04/23/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.3	5.18	1	A
Aroclor 1221	ND		ug/kg	58.3	5.84	1	A
Aroclor 1232	ND		ug/kg	58.3	12.4	1	A
Aroclor 1242	ND		ug/kg	58.3	7.86	1	A
Aroclor 1248	ND		ug/kg	58.3	8.75	1	A
Aroclor 1254	ND		ug/kg	58.3	6.38	1	A
Aroclor 1260	ND		ug/kg	58.3	10.8	1	A
Aroclor 1262	ND		ug/kg	58.3	7.41	1	A
Aroclor 1268	ND		ug/kg	58.3	6.04	1	A
PCBs, Total	ND		ug/kg	58.3	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 04/24/24 00:37
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 04/23/24 08:28
 Cleanup Method: EPA 3665A
 Cleanup Date: 04/23/24
 Cleanup Method: EPA 3660B
 Cleanup Date: 04/23/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1912004-1						
Aroclor 1016	ND		ug/kg	47.4	4.21	A
Aroclor 1221	ND		ug/kg	47.4	4.75	A
Aroclor 1232	ND		ug/kg	47.4	10.0	A
Aroclor 1242	ND		ug/kg	47.4	6.39	A
Aroclor 1248	ND		ug/kg	47.4	7.11	A
Aroclor 1254	ND		ug/kg	47.4	5.18	A
Aroclor 1260	ND		ug/kg	47.4	8.76	A
Aroclor 1262	ND		ug/kg	47.4	6.02	A
Aroclor 1268	ND		ug/kg	47.4	4.91	A
PCBs, Total	ND		ug/kg	47.4	4.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1912004-2 WG1912004-3								
Aroclor 1016	69		72		40-140	4	50	A
Aroclor 1260	68		72		40-140	6	50	A

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		67		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		66		30-150	B
Decachlorobiphenyl	59		59		30-150	B



METALS

Project Name: 155 CHANDLER SOIL CHARACTER**Lab Number:** L2421711**Project Number:** 01101**Report Date:** 04/28/24**SAMPLE RESULTS**

Lab ID: L2421711-01

Date Collected: 04/17/24 12:00

Client ID: BACEMENT EW

Date Received: 04/19/24

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 04/21/24 02:35

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Barium, TCLP	0.302	J	mg/l	0.500	0.0210	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Lead, TCLP	ND		mg/l	0.500	0.0270	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/25/24 18:45	04/26/24 14:33	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY
Silver, TCLP	ND		mg/l	0.100	0.0280	1	04/25/24 18:45	04/26/24 19:24	EPA 3015	1,6010D	CEY



Project Name: 155 CHANDLER SOIL CHARACTER

Lab Number: L2421711

Project Number: 01101

Report Date: 04/28/24

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1913234-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Barium, TCLP	ND		mg/l	0.500	0.0210	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Lead, TCLP	ND		mg/l	0.500	0.0270	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY
Silver, TCLP	ND		mg/l	0.100	0.0280	1	04/25/24 18:45	04/26/24 19:06	1,6010D	CEY

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 04/19/24 20:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1913298-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	04/25/24 18:45	04/26/24 14:27	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 04/19/24 20:34



Lab Control Sample Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1913234-2									
Arsenic, TCLP	102		-		75-125	-			20
Barium, TCLP	108		-		75-125	-			20
Cadmium, TCLP	103		-		75-125	-			20
Chromium, TCLP	105		-		75-125	-			20
Lead, TCLP	102		-		75-125	-			20
Selenium, TCLP	99		-		75-125	-			20
Silver, TCLP	106		-		75-125	-			20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1913298-2									
Mercury, TCLP	103		-		80-120	-			



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Matrix Spike Analysis
Batch Quality Control

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913234-3 QC Sample: L2421711-01 Client ID: BACEMENT EW										
Arsenic, TCLP	ND	1.2	1.33	111	-	-	-	75-125	-	20
Barium, TCLP	0.302J	20	22.3	112	-	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.568	107	-	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.11	106	-	-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.50	104	-	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.26	105	-	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.557	111	-	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913298-3 QC Sample: L2421711-01 Client ID: BACEMENT EW										
Mercury, TCLP	ND	0.025	0.0248	99	-	-	-	75-125	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913234-4 QC Sample: L2421711-01 Client ID: BACEMENT EW						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.302J	0.299J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1913298-4 QC Sample: L2421711-01 Client ID: BACEMENT EW						
Mercury, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: 155 CHANDLER SOIL CHARACTER**Project Number:** 01101**Lab Number:** L2421711**Report Date:** 04/28/24**SAMPLE RESULTS****Lab ID:** L2421711-01**Client ID:** BACEMENT EW**Sample Location:** BUFFALO, NY**Date Collected:** 04/17/24 12:00**Date Received:** 04/19/24**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	04/23/24 10:55	121,2540G	ROI



Lab Duplicate Analysis
Batch Quality Control

Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1911991-1 QC Sample: L2421663-03 Client ID: DUP Sample						
Solids, Total	82.0	78.3	%	5		20



Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

CoolerA

Custody SealAbsent

Container Information		Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type								
L2421711-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.1	Y	Absent		TCLP-EXT-ZHE(14)
L2421711-01B	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		-
L2421711-01C	Glass 120ml/4oz unpreserved	A	NA		4.1	Y	Absent		TS(7),NYTCL-8082(365)
L2421711-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.1	Y	Absent		CD-Cl(180),BA-Cl(180),AS-Cl(180),HG-C(28),PB-Cl(180),CR-Cl(180),SE-Cl(180),AG-Cl(180)
L2421711-01X9	Tumble Vessel	A	NA		4.1	Y	Absent		-
L2421711-01Y	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)
L2421711-01Z	Vial unpreserved Extracts	A	NA		4.1	Y	Absent		TCLP-VOA(14)



Project Name: 155 CHANDLER SOIL CHARACTER
Project Number: 01101

Lab Number: L2421711
Report Date: 04/28/24

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: DU Report with 'J' Qualifiers



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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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.)

Project Name: 155 CHANDLER SOIL CHARACTER
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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.

ID# 17873

Company-wide

R# 2

Quality Assurance

04/2024

Certificate/Approval Program Summary

Certification Information

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

Westborough Facility

EPA 624.1: /

EPA 625.1: cr

EPA 8260D: 245 4 M d 245 4

EPA 8270E: D 4 D dr M D 4 D dr
SM4500 2 M cr 2

Mansfield Facility

SM 2540D:

EPA TO-15: 244 2 244 2 M

M 2 2 dr d 245 M

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: 050

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

Westborough Facility:

Drinking Water

EPA 300.0 cr d EPA 353.2 cr SM4500NO3-F cr SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: M EPA 504.1: D D

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: EPA 350.1

LACHAT 10-107-06-1-B EPA 351.1, SM4500NO3-F, EPA 353.2, 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 cr cr

EPA 608.3 cr dr cr D dr DDD DD DD d

d cr d cr d cr cr cr

EPA 625.1 d d/ /

Microbiology SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: d M EPA 200.8: M EPA 245.1

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: M M M cr

EPA 200.8: , M

EPA 245.1

SM2340B

cr d cr M cr

☒ Billing Information	☒ Same as Client Info

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ ☐ NY

☐ Other:

Sample Filtration	T	O	I	A	R
☐ Done					
☐ Lab to do reservation					
☐ Lab to do					

Please Specify below)

[illegible]

TERMS & CONDITIONS.
(See reverse side.)

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone (716) 467-3130	4. Waste Tracking Number 01101
5. Generator's Name and Mailing Address Pierce Arrow Business Center BOP: C915312 155-157 Chandler St. Buffalo, NY 14207			Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name Dirt Works, Inc.			U.S. EPA ID Number 9A-986		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address American Recyclers Company 177 Wates Avenue Tonawanda, NY 14151 (716) 695-6720			U.S. EPA ID Number NYR000030809		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON RCRA, NON DOT Regulated (Soil cuttings from Well Installation)		1	DF	EST 20	P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Approval #: 1. A-24083-L Handling Codes: 1. None					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name Mary Szustak on behalf of PABC		Signature Mary Szustak		Month 7	Day 10
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Part of entry/exit: Date leaving U.S.:		Year 24	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Lucas Grah		Signature		Month 7	Day 10
Transporter 2 Printed/Typed Name		Signature		Year 24	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)			Month 07		
			Day 10		
			Year 24		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Garrett Sain		Signature		Month 07	Day 10
				Year 24	