FORMER LOUDON CLEANERS AND KEM CLEANERS SITE

350 NORTHERN BLVD, ALBANY, NEW YORK

ALBANY COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C401060

Prepared for:

DF Acquisitions, LLC

27 Burton Lane

Albany, NY 12011

Prepared by:

Alpine Engineering Services LLC

438 New Karner Road

Albany, New York 12205

NOVEMBER 12, 2021

CERTIFICATIONS

I, Mark Schnitzer, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Design was implemented and that all construction activities were completed in substantial conformance with the NYSDEC-approved Remedial Design.

I certify that the data submitted to the NYSDEC with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Design and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the NYSDEC.

I certify that all data generated in support of this report have been submitted in accordance with the NYSDEC's electronic data deliverable and have been accepted by the NYSDEC.

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, Mark Schnitzer, of Alpine Engineering

Services LLC, 438 New Karner Road, Albany, NY 12205, am certifying as Owner's Designated Site Representative for the site.

Mark Schnitzer, PE (License # 077506)	November 12, 2021	
NYS Professional Engineer #	Date	Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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LIST OF ACRONYMS

Acronym	Definition
bgs	Below grade surface
BCA	Brownfield Cleanup Agreement
CPP	Community Participation Plan
CVOCs	Chlorinated Volatile Organic Compounds
EDD	electronic data deliverable
FS	Feasibility Study
NYSDEC	New York State Department of Environmental Conservation
PCE	Perchloroethene, Perchloroethylene, or Perc
PID	Photo ionization detector
RAOs	Remedial Action Objectives
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
SCOs	Soil Cleanup Objectives
SP	Subject Property
SSD	Sub Slab Depressurization
SVE	Soil Vapor Extraction
TCE	Trichloroethene or trichloroethylene
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

DF Acquisitions, LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in September 2016, to implement a remedy for a property located at 350 Northern Boulevard, in the City of Albany, in the State of New York. The site is located in the County of Albany, with Albany County Tax ID # 65.07-3-24 and is situated on an approximately 3.9-acres. The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds. An electronic copy of this FER with all supporting documentation is included as Appendix B.

The site is located in a commercial and residential area on the north side of the City of Albany, New York. The site is developed with an L-shaped retail building that contains many separate retail businesses that operate in the single-story portion of the building and a three-story office building located in the center of the building. The remainder of the site is sidewalks, asphalt driveways/parking for the businesses, and landscaped areas.

The site is currently zoned commercial and most of the tenant spaces in the strip mall are currently occupied. Tenants include restaurants, offices, retail stores, and a bank with commercial offices in the 3-story building. The surrounding parcels include an apartment complex to the north, west, and southwest, a hospital to the south, and a highway and golf course to the east and northeast. The nearest residence is located approximately 50 feet to the west of the site.

Two separate tenant spaces were occupied by dry cleaners (known as Loudon Dry Cleaners, KEM Cleaners and possibly other names) that used perchloroethylene (PCE) from approximately 1954 to 1997. KEM Cleaners converted to drop-off only service in 1997 and this tenant space is currently occupied by Risotto Restaurant. The tenant space formerly occupied by Loudon Cleaners is now vacant. No dry cleaner businesses

are currently present at the site. The remedial investigation (RI) and remedy feasibility study (FS) for the site were undertaken by a NYSDEC contractor with resulting reports, "*Final Phase I and Phase II Remedial Investigation Report"*, by Shaw Environmental & Infrastructure Engineering of New York, PC dated July 24, 2014 and "*Final Feasibility Study Report"*, Shaw Environmental & Infrastructure Engineering of New York, PC dated December, 2014. Copies of these reports are available at the Albany Public Library, Reference Desk, 161 Washington Avenue, Albany, NY 12210 and at DEC offices.

Investigation activities conducted at the site indicate that on-site soil, shallow groundwater, and soil gas are affected by chlorinated volatile organic compounds (CVOCs) discharged from the former dry cleaning businesses. The NYSDEC contracted studies proposed the remedy, leading to a March 2015 Record of Decision (ROD) by the NYSDEC, selecting the remedy.

2.0 SUMMARY OF SITE REMEDY

The site remedy was selected and detailed in the ROD based on the analysis presented in the Shaw RI and FS reports. The site remedy described in the ROD includes elements directed at offsite contamination (ie groundwater treatment, engineering controls, etc.) in addition to an onsite contamination remedy. The volunteer's responsibility to implement the site remedy ends at the property line of the site, and as such, does not include site remedy elements intended to directly address off site contamination.

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Remove the source of ground or surface water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the ROD dated March 2015. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

2.2.1. Remedial Design

A remedial design program was implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the site remedy.

2.2.2. Cover System

A site cover currently exists and will be maintained to allow for restricted residential/commercial use of the site. Any site redevelopment shall maintain a site cover,

which may consist either of structures such as buildings, pavement, sidewalks and landscaped areas comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable SCOs. Where a soil cover is required, it will be a minimum of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial/restricted residential use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer.

2.2.3. Soil Vapor Extraction/Vapor Mitigation Sub Slab Depressurization

A soil vapor extraction (SVE) system was specified in the site remedy to remove VOCs from the subsurface soils on-site. VOCs are physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground surface but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air containing VOCs extracted from the SVE wells is treated to remove VOCs from the air prior to it being discharged to the atmosphere, when contaminant levels exceed the allowable discharge rates.

A vapor mitigation sub slab depressurization (SSD) system was specified in the site remedy for the southern wing of the site building to prevent VOC vapors from migrating into the indoor air via soil vapor intrusion from impacted soil and groundwater beneath the building. An SSD system draws air from below the concrete floor slab of a building, creating a vacuum under the slab with respect to the building room air, disrupting preferential soil vapor pathways into the building. The collected soil vapor and air travel through a sealed pipe system through the fans located on the exterior of the building and discharges to the atmosphere.

2.2.4. Institutional Controls

The selected remedy required institutional controls in the form of an environmental easement for the controlled property that:

a. Required the volunteer to complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

b. Allowed the use and development of the controlled property for restricted residential, commercial, and industrial uses as defined by Part 375-1.8(g);

c. Restricted the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;

d. Required compliance with an NYSDEC approved Site Management Plan.

2.2.5. Site Management

The selected remedy required a Site Management Plan (SMP), which provides the framework for ongoing active remedy operations, monitoring, and maintenance plans for future requirements if site usage change is proposed, and procedures for ongoing certification of compliance with institutional controls. which includes the following:

a. Institutional Controls: The environmental easement discussed in section 2.2.4.

b. Engineering Controls: The SVE system and SSD systems described in section 2.2.3.

c. An Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;

d. A provision for further investigation to refine the nature and extent of contamination under the southern wing of the on-site building, where access was previously hindered, if and when, the building is demolished;

e. A provision for removal and treatment of the source area located under the southern wing of the on-site building (if identified), if and when, the on-site building is demolished;

f. Descriptions of the provisions of the environmental easement including any land use, and a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on-site, and including provision for implementing actions recommended to address exposures related to soil vapor intrusion;

g. Provisions for the management and inspection of the identified engineering controls;

h. Maintaining site access controls and NYSDEC notification;

i. Steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

j. Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- Monitoring of on-site soil vapor, indoor air and groundwater to assess the performance and effectiveness of the remedy;
- A schedule of monitoring and frequency of submittals to the NYSDEC;
- Monitoring for vapor intrusion for any buildings developed on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

l. An Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:

- Compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting; and
- Providing the NYSDEC access to the site and O&M records.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC approved Remedial Design (RD) for the Former Loudon and KEM Cleaners site dated September 18, 2018. All deviations from the RD are noted below.

4.1 GOVERNING DOCUMENTS

The RD report includes the basis for design and the design plans for both the SVE system and the SSD system, as well as plans necessary to protect the public and the environment during the installation of the remedy. The following items were included in the RD, or referenced in the RD, to be incorporated as part of the implementation of the remedy:

4.1.1 Site Specific Health & Safety Plan

A site specific Health and Safety Plan (HASP) was prepared in October 2016 by Alpha Geoscience prior to the implementation of the RD. The HASP is provided in Appendix F of the SMP. To the best of the knowledge of the Engineer of Record, the HASP was complied with for all remedial and invasive work performed at the Site. However, work was performed by several unrelated contractors, and overall safety compliance monitoring was not performed by any entity during the implementation of the RD.

4.1.2 Soil Management Plan (SMP)

A Soil Management Plan was prepared by Alpha Geoscience and included as Appendix I of the RD report. The plan called for screening soils with a PID during excavation, staging of excess soils for characterization, characterizing excess soils for soil disposal in accordance with approved disposal facility requirements, transporting soils by permitted waste haulers, and disposal at the approved disposal facility. Soils excavated for the implementation of the RD and the installation of a new sewer line to the south of the southern wing of the property, were returned to the excavation trenches following pipe installations, to the extent possible. Excess soils were staged on site for site characterization and later disposed of at permitted facilities. Following backfilling with removed soils and compacting soils, exposed soil trenches were covered with asphalt or concrete. CAMP monitoring was performed during the exterior excavation activities.

4.1.3 Storm-Water Pollution Prevention (SWPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control.

4.1.4 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan was prepared by Alpha Geoscience for implementation during investigation and construction necessary to implement the remedy, including pre-design investigation and remediation construction. The CAMP required real-time monitoring for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities that may impact air quality are in progress the site. The CAMP required periodic VOC monitoring with a photo ionization detector (PID) equipped with a 10.2 eV lamp, and a minimum daily calibration in accordance with the manufacturer's instructions. The CAMP specified the following VOC Monitoring, Response levels, and Actions:

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area exceeded 5 parts per million (ppm) above background for 15-minutes, work activities were to be temporarily halted and monitoring continued. If the total organic vapor level readily decreased (per instantaneous readings) below 5 ppm over background, work activities could resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persisted at levels in excess of 5 ppm over background but less than 25 ppm, work activities were to be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities could resume provided that the total organic vapor level 200 feet downwind of the exclusion zone, or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm over background based on a continuous 15-minute average.
- If the organic vapor level is above 25 ppm at the downwind perimeter of the work area, activities were to be shutdown.
- All readings are recorded and documented on a field data form.

The CAMP specified the following Airborne Particulate Monitoring, Response levels, and Actions:

- Fugitive dust migration was visually assessed during all work activities. If dust could not be controlled in the work area, or persisted for more than 15 minutes,

then particulate concentrations were to be monitored continuously at the downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring was performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment was equipped with an audible alarm to indicate exceedance of the action level.

- If the downwind PM-10 particulate level was 100 micrograms per cubic meter (µg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust was observed leaving the work area, then dust suppression techniques were to be employed. Work could continue with dust suppression techniques provided that downwind PM-10 particulate levels did not exceed 150 µg/m3 above the upwind level and provided that no visible dust was observed migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels were greater than 150 µg/m3 above the upwind level, work was to be stopped and reevaluation of activities initiated. Work could resume provided that dust suppression measures and other controls were successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m3 of the upwind level and in preventing visible dust migration.
- All readings were recorded and documented on field data forms.

4.1.5 Community Participation Plan

An addendum to the initial Community Participation Plan (CPP) was prepared by McNamee Lochner law firm in January 2017. The CPP was prepared on behalf of the Volunteer in accordance with the Brownfield Cleanup Agreement. The CPP addendum outlines the manner by which the volunteer shall keep the public and interested parties informed of the status and progress of the site remedial activities, using the following guide:

- Inform all persons on the Site Contact List that the work plan has been approved;

- Provide those citizens with information as to the public location of the work plan; and
- provide the persons on the Site Contact List with an approximate date upon which the field work shall begin.

When the NYSDEC issues a Certificate of Completion (COC) relating to the Volunteer's implementation of the remedy, the Volunteer shall place the COC in the document repository within ten (10) days of the NYSDEC's issuance of the COC. At that time, the volunteer shall also distribute a fact sheet to the Site Contact List that announces the issuance of the COC.

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

The following is a list of consultants and contractors, that have performed work for the Volunteer since the BCA was implemented, and a brief summary of the role each has played on the site:

a Alpine Engineering Services LLC

Engineer of Record, preparation of Remedial Design Report, preparation of the SVE Design, and preparation of the Final Engineering Report.

Certifying Engineer: Mark Schnitzer, PE

b Whiteman Osterman & Hanna LLP and McNamee Lochner law firms

Preparation of the CPP Addendum, preparation of the environmental easement, and legal representation for the Volunteer.

c. Alpha Geoscience

Preparation of various work plans (ie HASP, CAMP, Soil Excavation and Management Plan, etc.). Contracted for SVE well installation. Preparation of monthly progress reports, coordination of removed soil disposal, and sampling and reporting for emerging contaminants.

d. Alpine Environmental Services, Inc.

Preparation of the Pre-design work plan, performance of pilot testing for SVE and SSD system designs, preparation of SSD system design, construction of major portions of the SSD and SVE systems, continued monitoring/maintenance on the SVE system, and influent/effluent sampling of the SVE system.

e. DF Acquisitions LLC (The Volunteer)

Installed sub grade pipe for SVE system, contracted with an electrician to energize the SSD and SVE systems, provided the finished SVE shed, provided concrete and asphalt coverings over trenches, and secured the exhaust stack of the SVE system to the discharge point above the building. Contracted for disposal of spent carbon treatment drums from the SVE system operation.

4.2.2 Site Preparation

Multiple mobilizations occurred to implement remedial measures at the site. Each mobilization generally consisted of transporting necessary equipment to the site, and securing the work area prior to the start of each phase of work. Remedies for the site did not include the removal of soils, however some soils were removed as part of drilling and trenching of SVE and SSD pipes, with staging and secure storage areas established for the waste characterization period prior to disposal. Pre-construction meetings were held with involved contractors and the volunteer before the implementation of the remedy.

Documentation of agency approvals required for the completion of the remedial activities is included in Appendix D.

4.2.3 General Site Controls

Contact with sub grade soils was limited to drilling operations used to install the SVE extraction wells, the trenching operations to conceal the SVE well laterals below grade, and SSD extraction trench and extraction point installations. The trenches were generally less than 2' deep, except on the south end of the structure where the volunteer shared the SVE trench with a new sewer line installation with approval of the NYSDEC. The SVE pipes run in the upper two feet of the trench, and the sewer lines running approximately four to five feet bgs. The trench areas were isolated from the public with a temporary

construction fence. Removed soils were stockpiled in a roll off container and used for back fill following installation of the sewer line and the SVE well laterals. Field monitoring of removed soils with a PID did not demonstrate any readings above background. Equipment was decontaminated by scraping, brushing and washing back into the excavation trench. The remainder of work was performed inside and on the roof of the site building and inside the SVE shed installed at the site, limiting access to the public.

4.2.4 Nuisance controls

Dust, vapor, and odor control measures were instituted, as necessary during the remedial process to ensure compliance with the CAMP and HASP and to prevent dust, vapors or odors from migrating offsite and impacting the public. Noise was minimized to the degree practicable.

The control of dust at the site was suppressed using water hoses to wet surfaces during dry periods. Each stockpile was covered when not actively receiving materials from work locations to prevent dust and odors from migrating off-site.

4.2.5 CAMP results

There were no exceedances of CAMP action levels during monitoring during any of the exterior sub surface intrusive activities performed at the site in accordance with the implementing the RD.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix G.

4.2.6 Reporting

Monthly reports were prepared by Alpha Geoscience with input from all the involved consultants/contractors and emailed to all involved consultants/contractors and the NYSDEC. Monthly reports are included in electronic format in Appendix E.

4.3 CONTAMINATED MATERIALS REMOVAL

Contaminated soils and spent granular activated carbon (GAC) were required to be removed from the site during the construction and the operation of the remedy.

4.3.1 Soil

Soils were removed at the site from trenching activities to conceal the SVE well lateral pipes below grade, well drilling to install the SVE extraction wells, cavities created beneath the building floor slab to install SSD extraction points, and an a trench installed through the building concrete floor slab as part of an SSD extraction trench. The removed soils from the trenches were used to back fill the trenches from which they originated, with a relatively small amount of soil remaining. The remaining soil was staged on site and tested for waste characterization and disposed of at a permitted facility. Soils at the trench boundaries were not tested as part of the implementation of the remedial measures. "Contained in" determinations were obtained from the NYSDEC for each of the construction phases.

Table 4.3A shows the total quantities of soil removed from the site and the disposal locations. Contained in determination, waste characterization sample results, and manifests/bills of lading are included in Appendix F.

Table 4.3A: Soil Disposal from Implementation of the Remedy

Disposal Date	Activity	Amount of Soil	Transport Contractor	Disposal Facility
9/8/2017	SVE Well Installation Cuttings	6 drums	MCES Environmental Services	Veolia Tech Solutions
4/30/2018	SSD system Installation	6.76 tons	MCES Environmental Services	ESMI of NY
11/26/2018	SVE well lateral trenching back to blower.	21.41 tons	MCES Environmental Services	ESMI of NY

4.3.2 Granular Activated Carbon

Spent GAC was generated during the operation of the air treatment system of the SVE system effluent. The GAC was supplied to the site in 55-gallon steel drums and operated

in the drums until VOC levels in the effluent increased indicating breakthrough of a treatment drum, which was then changed to a new GAC drum. Twelve drums were transported by Precision Industrial Maintenance of Schenectady, New York and disposed of at Cycle Chem, Inc., Elizabeth, New Jersey. Waste manifests are located in Appendix F.

4.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

The operation of the engineering controls are ongoing. As such, there has not been any endpoint sampling performed to date. When operating, the SVE system is monitored quarterly which includes collecting routine operating parameter data (ie pressure, PID, temperature, operational hours, airflow, etc.), effluent air samples analyzed for VOCs to demonstrate compliance with NYSDEC discharge requirements, and laboratory samples of the influent well VOC levels. VOC mass removal rates are estimated based on the influent VOC concentrations and airflow rates through the system.
Laboratory sample results for the monitoring of effluent air, laboratory results of the influent well VOC levels, and laboratory results for emerging contaminants in groundwater, are located in Appendix H, and electronic data deliverables (EDD) of these results have also been uploaded to the NYSDEC Environmental Information Management System (EIMS) in accordance with the BCA.

4.5 IMPORTED BACKFILL

Backfill was not imported to the site as part of the remedy.

4.6 CONTAMINATION REMAINING AT THE SITE

Since contaminated soil, groundwater, and soil vapor remains beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.7 SOIL CAP SYSTEM

Exposure to remaining contamination in soil at the site is prevented by a soil cap system in place at the site. This cover system is comprised of asphalt pavement, concrete-covered sidewalks, and concrete building slabs. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix E of the SMP.

4.8 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil, groundwater, and soil vapor, exist beneath the site, Engineering Controls (EC) are required to protect human health and the environment. The site has the following primary Engineering Controls, as described in the following subsections.

4.8.1 SVE System

The SVE system is intended to reduce VOC vapors available for intrusion into the onsite buildings and reduce the total mass of VOCs in the ground at the site over time. The SVE was installed in accordance with the RD prepared by Alpine Engineering Services LLC located in Appendix D of the NYSDEC approved RD report dated September 18, 2018.

The SVE system installed at the site utilizes one blower to extract air/vapors from three, 4-inch diameter vertical wells, screened from approximately 10 feet bgs to 20 feet bgs.

The SVE process vacuum is generated by a Rotron sealed regenerative blower with explosion proof, 3 horsepower electric motor. The blower is housed in an SVE shed, a steel shipping container, approximately 20 ft long x 8 feet wide, which is insulated and equipped with a cooling ventilation fan and an electric heating unit, both operated from thermostats inside the shed. Pressure gauges, connected to the system control panel, measure inlet vacuum changes as these valves are adjusted to assure that the blower is operated within required vacuum limits. The air stream of the three SVE wells is then manifolded together and runs through a moisture separator (ie knock out tank) to remove excess condensate/water vapor. Pressure gauges measure the post and pre air filter pressures to determine if air filter loading requires replacement of the air filter element.

Intake air then passes through the blower and is discharged via a 2-inch flexible PVC into a larger pipe exiting the SVE shed to a discharge location above the roof. The effluent mass discharge is monitored on a quarterly basis to demonstrate compliance with contaminant air discharge limits as specified in 6CRRNY 212-2.2. Results of the effluent VOC mass discharge to the atmosphere up through December 15, 2020 are presented in Table 2.0a following this summary. SVE system monitoring includes: inspection of mechanical system components for proper operation, collection of readings from pressure gauges, hour meter, and temperature gauge, and collecting PID and airflow readings with handheld instruments from the pre and post treated airflow. Quarterly laboratory samples are collected from each of the three influent wells and of the post treatment exhaust effluent. At the end of 2020, it was estimated that the SVE system has removed a total of 282.46 pounds of volatile organic compounds (See Table 1).

The evaluation plan for discontinuation of the SVE system is discussed in the SMP. The SVE system shall be shut down when it is determined that the continued operation of the SVE system is no longer effective and the system has achieved a bulk reduction in contamination. The criteria for determination for suitability for SVE system shutdown is when the VOCs in the three influent wells, following a system pulse, demonstrate that the SVE system has reached asymptotic removal rates. Discontinuation of the SVE System will be in consultation with the NYSDEC.

Procedures for monitoring, operating and maintaining the SVE system are provided in the Operation and Maintenance Plans in Section 5 and Appendix H of the Site Management Plan (SMP). The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

4.8.2 Vapor Mitigation SSD System

The vapor mitigation SSD system is intended to interrupt the pathway of sub surface VOC vapors available for intrusion into the onsite buildings at the south wing. The vapor mitigation system is a sub slab depressurization system which extracts soil vapor and air from below the concrete floor slab within south wing of the site building and discharges it outside the building. Extracted soil vapor and air travel through sealed negatively pressurized piping and through fans located on the roof of the building to a positively pressurized exhaust above the roof line of the building.

The VM system includes four SSD sub-systems, each sub system with a fan, extraction points and/or trenches in the tenant spaces with ball valves to balance the sub slab pressure field, and exhaust stacks above each fan. Each sub-system has a pressure gauge and a low pressure alarm inside the building to monitor system operation.

The evaluation plan for discontinuation of the SSD system is discussed in the SMP. The SSD system shall be shut down when it is determined that the potential for vapor intrusion is no longer present. This potential shall be evaluated in accordance with the NYSDOH guidance document, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006; Updated 2017) or the most current version with appropriate updates. Discontinuation of the SSD System will be in consultation with the NYSDEC.

Procedures for monitoring, operating and maintaining the SSD system are provided in the Operation and Maintenance Plans in Section 5 and Appendix G of the SMP.

4.9 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only.

The environmental easement for the site was executed by the NYSDEC on November 4, 2021, and filed with the Albany County Clerk on November 12, 2021. The County Recording Identifier number for this filing is R2021-34342. A copy of the easement and proof of filing is provided in Appendix C.

4.10 DEVIATIONS FROM THE REMEDIAL DESIGN

There were no significant deviations from the installation of the approved Remedial Design dated September 18, 2018.

The SVE system was shut down on January 22, 2021 due to financial hardships of the Volunteer related to the COVID-19 pandemic. The SVE system was re-started September 29, 2021 and continues to operate with periodic monitoring. The SSD vapor mitigation system has continued to operate during the temporary shutdown period of the SVE system to protect occupants from vapor intrusion.

5.0 REFERENCES

1. Shaw Environmental & Infrastructure Engineering of NY PC: Final Phase I and Phase II Remedial Investigation Report Former Loudon and Kem Cleaners Site; July 24, 2014.

2. Shaw Environmental & Infrastructure Engineering of NY PC: Final Feasibility Study Report Former Loudon and Kem Cleaners Site; December 2014.

3. NYS Department of Environmental Conservation. Record of Decision Former Loudon and Kem Cleaners Site; March 2015.

4. Alpine Engineering Services LLC. Remedial Design Report for SVE and Vapor Mitigation Former Loudon and Kem Cleaners Site; September 18, 2018.

5. Alpine Environmental Services, Inc. Vapor Mitigation System Design Former Loudon and Kem Cleaners Site; January 5, 2018.

6. Alpine Engineering Services LLC. Soil Vapor Extraction System Design Former Loudon and Kem Cleaners Site; September 17, 2018.

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- Figure S-100: SVE System As Built

J: SVE System Construction Photo Log

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Table 4.3A: Soil Disposal from Implementation of the Remedy

Disposal Date	Activity	Amount of Soil	Transport Contractor	Disposal Facility
9/8/2017	SVE Well Installation Cuttings	6 drums	MCES Environmental Services	Veolia Tech Solutions
4/30/2018	SSD system Installation	6.76 tons	MCES Environmental Services	ESMI of NY
11/26/2018	SVE well lateral trenching.	21.41 tons	MCES Environmental Services	ESMI of NY

Table 1: Cumulative VOC Mass Removal

350 Northern Boulevard, Albany, New York, SVE System Performance Cumulative VOC Mass Removed												
Date	**SVE-1**			**SVE-2**			**SVE-3**			**System Total**		
	VOC Mass Removal Rate	Total VOC Mass Removed for the Period	Cumulative Total VOC Mass Removed	VOC Mass Removal Rate	Total VOC Mass Removed for the Period	Cumulative Total VOC Mass Removed	VOC Mass Removal Rate	Total VOC Mass Removed for the Period	Cumulative Total VOC Mass Removed	VOC Mass Removal Rate	Total VOC Mass Removed for the Period	Cumulative Total VOC Mass Removed
	(lbs/hr)	(lbs)	(lbs)	(lbs/hr)	(lbs)	(lbs)	(lbs/hr)	(lbs)	(lbs)	(lbs/hr)	(lbs)	(lbs)
April-19	**System Startup**											
May-19	0.0250	17.62	17.62	0.0050	3.54	3.54	0.0053	3.73	3.73	0.0353	24.89	24.89
June-19	0.0371	41.87	59.49	0.0048	6.95	10.48	0.0060	7.88	11.61	0.0479	56.69	81.58
July-19	0.0532	17.76	77.25	0.0065	2.26	12.74	0.0067	2.82	14.43	0.0663	22.85	104.43
August-19	0.0294	25.39	102.64	0.0027	3.03	15.77	0.0052	3.30	17.73	0.0373	31.72	136.14
September-19	0.0245	19.83	122.48	0.0014	1.65	17.42	0.0038	3.44	21.17	0.0298	24.92	161.07
October-19	0.0127	18.49	140.96	0.0007	1.07	18.49	0.0019	2.88	24.05	0.0154	22.44	183.51
November-19	0.0110	3.70	144.67	0.0010	0.24	18.73	0.0019	0.58	24.63	0.0138	4.52	188.03
December-19	0.0067	5.06	149.72	0.0005	0.42	19.15	0.0014	0.92	25.55	0.0086	6.40	194.43
January-20	0.0063	3.62	153.34	0.0005	0.26	19.41	0.0014	0.78	26.34	0.0081	4.66	199.09
February-20	0.0054	4.63	157.97	0.0004	0.33	19.74	0.0012	1.00	27.34	0.0069	5.97	205.06
March-20	0.0055	3.32	161.29	0.0004	0.24	19.98	0.0012	0.72	28.06	0.0071	4.28	209.34
	System Shut Down*											
June-20	0.0194	8.93	170.23	0.0006	0.29	20.28	0.0023	1.05	29.11	0.0223	10.27	219.61
July-20	0.0227	9.61	179.83	0.0007	0.32	20.60	0.0027	1.13	30.23	0.0261	11.05	230.66
August-20	0.0217	17.26	197.09	0.0007	0.57	21.17	0.0025	2.02	32.25	0.0250	19.85	250.51
September-20	0.0142	10.18	207.27	0.0004	0.31	21.47	0.0009	0.67	32.93	0.0156	11.16	261.67
October-20	0.0173	7.27	214.54	0.0005	0.22	21.69	0.0011	0.48	33.41	0.0190	7.97	269.64
November-20	0.0163	8.42	222.96	0.0005	0.25	21.95	0.0011	0.56	33.97	0.0179	9.23	278.87
December-20	0.0033	2.97	225.93	0.0001	0.13	22.08	0.0005	0.48	34.44	0.0040	3.58	282.46

* System shut down due to Covid-19 restrictions: March 25, 2020. System restarted post Covid-19 Restrictions: June 03, 2020.

350 Northern Boulevard, Albany, New York, SVE System Performance

Cumulative VOC Mass Removed

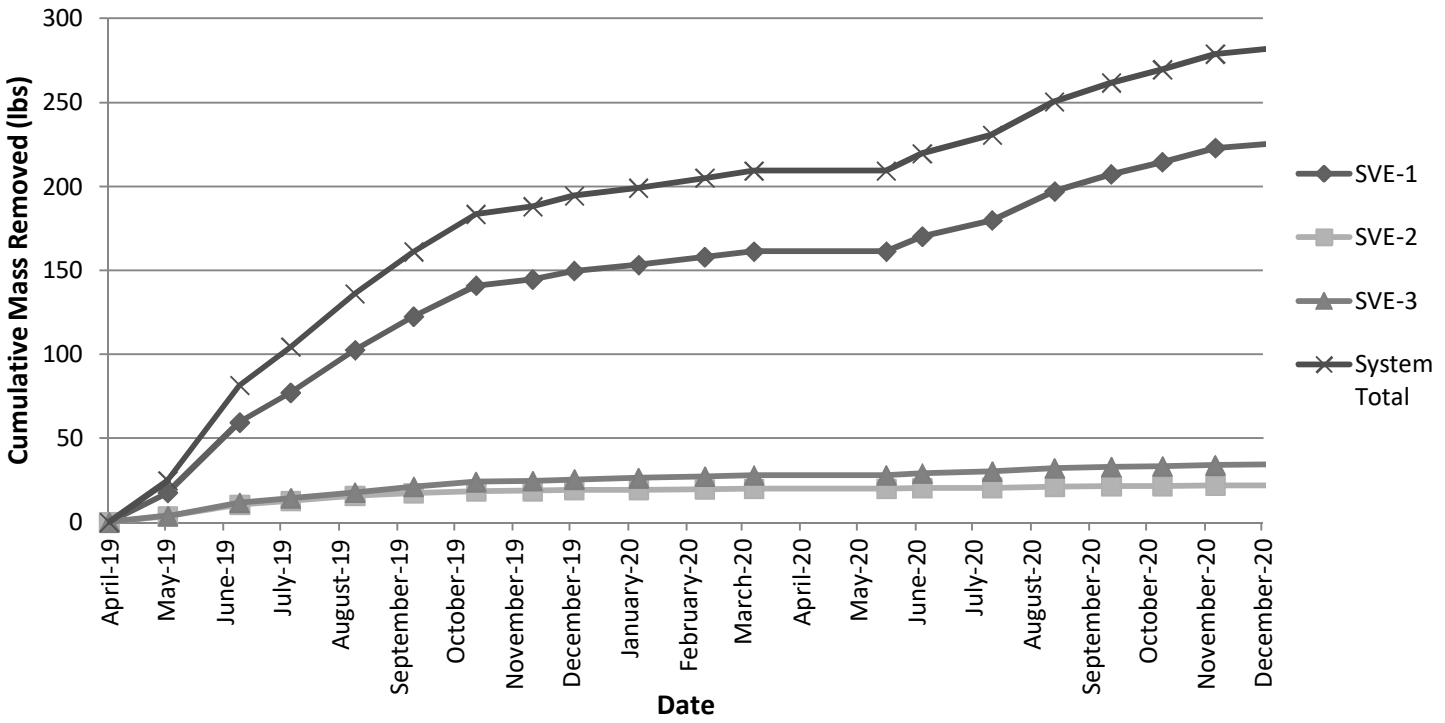


Table 2: SVE System Monitoring Data

1.0 SVE System Monitoring: System Pressures

Date:	4/19/19	4/24/19	4/26/19	5/3/19	5/7/19	5/10/19	5/20/19	6/3/19	6/7/19	6/24/19	6/27/19
SVE1 - Gauge	-15	-18	-19	-20	-20	-20	* -20/-38	-46	-44	-48	-48
SVE2 - Gauge	-16	-20	-21	-22	-22	-22	* -22/-39	-47	-45	-48	-48
SVE3 - Gauge	-16	-20	-21	-22	-22	-22	* -22/-38	-34	-31	-36	-36
Pre filter - Gauge	-18	-22	-23	-23	-24	-24	* -24/-42	-48	-44	-49	-50
Post Filter - Gauge	-18	-22	-23	-24	-24	-24	* -24/-43	-50	-45	-51	-52

In Inches of Water Column ("WC); * Before/After Operating Frequency Change;

Date:	7/22/2019	7/24/2019	8/5/2019	8/9/2019	8/15/2019	8/28/2019	9/4/2019	9/11/2019	9/19/2019	9/27/2019
SVE1 - Gauge	-42	-42	-48	-49	-48	-46	-47	-47	-48	-48
SVE2 - Gauge	-44	-44	-50	-51	-50	-49	-50	-50	-50	-50
SVE3 - Gauge	-28	-30	-36	-37	-37	-34	-36	-36	-36	-36
Pre filter - Gauge	-45	-46	-51	-52	-52	-50	-50	-50	-50	-51
Post Filter - Gauge	-47	-48	-54	-54	-54	-52	-52	-53	-53	-53

In Inches of Water Column ("WC);

Date:	10/17/2019	10/28/2019	10/30/2019	11/18/2019	11/25/2019	11/29/2019	12/12/2019	12/21/2019	01/06/2020	01/22/2020
SVE1 - Gauge	-48	-44	-48	-38	-46	-47	-48	-50	-40	-52
SVE2 - Gauge	-49	-45	-49	-39	-47	-48	-49	-52	-42	-53
SVE3 - Gauge	-35	-29	-34	-23	-33	-34	-35	-37	-38	-40
Pre filter - Gauge	-51	-51	-50	-42	-48	-50	-51	-53	-45	-54
Post Filter - Gauge	-53	-53	-52	-44	-51	-52	-53	-55	-46	-56

In Inches of Water Column ("WC);

Date:	*01/24/2020	02/13/2020	02/18/2020	02/28/2020	**03/06/2020	***03/16/2020	‡03/25/2020	⁂06/03/2020	06/22/2020
SVE1 - Gauge	-52/-48	-43	-54	-54	-54/-50	-56/-54	-57	-54	-55
SVE2 - Gauge	-53/-48	-44	-54	-54	-54/-51	-56/-54	-58	-54	-55
SVE3 - Gauge	-40/-36	-30	-40	-31	-41/-37	-42/-41	-52	-38	-32
Pre filter - Gauge	-54/-51	-47	-54	-55	-54/-52	-56/-56	-58	-56	-56
Post Filter - Gauge	-57/-53	-49	-58	-58	-59/-54	-60/-59	-60	-58	-58

In Inches of Water Column ("WC); *Pre/Post Drum Change on 01/24/2020; ** Pre/Post Filter Change on 03/06/2020
***Pre/Post Removal of Carbon Drum Treatment; ‡System shutdown due to Covid-19 restrictions;
⁂System Restarted Post Covid-19 Restrictions

Date:	07/16/2020	07/29/2020	08/31/2020	**09/15/2020	09/30/2020	10/16/2020	10/27/2020***	11/06/2020	11/24/2020
SVE1 - Gauge	-57	-56	-57	-58	-56	-56	N/A	-56	-57
SVE2 - Gauge	-57	-56	-55	-56	-57	-58	N/A	-55	-56
SVE3 - Gauge	-28	-29	-27	-27	-28	-25	N/A	-24	-23
Pre filter - Gauge	-57	-55	-57	-58/-56	-57	-58	N/A	-56	-56
Post Filter - Gauge	-60	-58	-60	-60/-59	-58	-60	N/A	-59	-60

In Inches of Water Column ("WC); ** Pre/Post Filter Change on 09/15/2020, *** System Down

Date:	12/15/2020	12/28/2020
SVE1 - Gauge	-58	-58
SVE2 - Gauge	-56	-56
SVE3 - Gauge	-23	-23
Pre filter - Gauge	-59	-56
Post Filter - Gauge	-60	-58

In Inches of Water Column ("WC)

2.0 SVE System Monitoring: Airflow, Operating Frequency, Temperature, Operating Hours, and Air/Water Separator Level

Date:	4/19/19	4/24/19	4/26/19	5/3/19	5/7/19	5/10/19	5/20/19	6/3/19	6/7/19	6/24/19	6/27/19
Volumetric Airflow (cfm)	42	45	54	52.5	54	55	*52/117	108	99	95	83
VFD Frequency (Hz)	32	32	32	32	32	32	* 32/50	50	50	50	50
Temperature (deg F)	83	82	92	88	90	91	* 106/130	132	134	156	152
Operating Hours (hours)	20	138	145	165	259	335	716	NR	1145	1559	1624
Water Level in Separator (")	0	0	0	0	0	0	0	0	0	0	0

* Before/After Operating Frequency Change

Date:	*7/22/2019	**7/24/2019	8/5/2019	8/9/2019	8/15/2019	8/28/2019	9/4/2019	9/11/2019	9/19/2019	9/27/2019	10/17/2019
Volumetric Airflow (cfm)	86	99	86	77	NM	77	76.5	76	73	77	79
VFD Frequency (Hz)	50	50	50	50	50	50	50	50	50	50	50
Temperature (deg F)	124	136	138	152	152	148	150	153	144	141	135
Operating Hours (hours)	NM	2073	2364	2455	2599	2675	2842	3015	3205	3395	NR
Water Level in Separator (")	0	0	0	0	0	0	0	0	0	0	0

*7/15/2019 SVE shed vent fan was not operating, failed thermostat. System shut down for repair. 7/22/2019 System restarted.
**7/24/2019 System was off. Error on VFD stated "System Down from Power Interruption". VFD reset and system re-started.

Date:	*10/28/2019	10/30/2019	11/18/2019	11/25/2019	11/29/2019	12/12/2019	12/21/2019	*01/06/2020	01/22/2020	**01/24/2020
Volumetric Airflow (cfm)	77	74	71	NR	72	76	68	62	65	64/66
VFD Frequency (Hz)	50	50	50	50	50	50	50	50	50	50
Temperature (deg F)	144	152	150	125	120	118	106	100	120	124
Operating Hours (hours)	4113	4159	4206	4377	4470	4783	4996	5153	5525	5572
Water Level in Separator (")	0	0	0	0	0	0	0	0	0	0

* System down due to power failure. Re-started system and verified proper operation.
**Treatment Drum Change on 01/24/2020

Date:	*02/13/2020	02/18/2020	02/28/2020	**03/06/2020	***03/16/2020	‡03/25/2020	⁂06/03/2020	06/22/2020	*07/16/2020
Volumetric Airflow (cfm)	78	58	55	52/59	54/65	56	58.5	60.75	55
VFD Frequency (Hz)	50	50	50	50	50	50	50	50	50
Temperature (deg F)	100	130	132	144	136/124	142	110	188	92
Operating Hours (hours)	5919	6040	6280	6450	6688	6906	6906	7366	7507
Water Level in Separator (")	0	0	0	0	0	0	0	0	0

* System down due to power failure. Re-started system and verified proper operation.
** Pre/Post Filter Change on 03/06/2020; *** Removal of Carbon Drum Treatment;
‡System shutdown due to Covid-19 restrictions; ⁂System Restarted Post Covid-19 Restrictions

Date:	07/29/2020	08/31/2020	09/15/2020	09/30/2020	10/16/2020	10/27/2020*	11/06/2020	11/24/2020	12/15/2020	12/28/2020
Volumetric Airflow (cfm)	71	68	58.5	55	57.5	67.0	66.0	63	76	65
VFD Frequency (Hz)	50	50	50	50	50	50	50	50	50	50
Temperature (deg F)	187	172	156	110	135	N/A	151	146	140	138
Operating Hours (hours)	7821	8615	8971	9308	9694	NR	9862	10295	10800	11110
Water Level in Separator (")	0	0	0	0	0	0	0	0	0	0

* System down due to power failure. Re-started system and verified proper operation.

3.0 SVE System Monitoring: PID Readings

Date:	4/18/19	4/19/19	4/24/19	4/26/19	5/3/19	5/7/19	5/10/19	5/20/19	6/3/19	6/7/19	6/24/19	6/27/19
Positive Pressure side of Blower (Pre Treatment)	184	254	140	119	82	71	62.5	46.8	NR	NR	34.2	33.5
A-line: Treatment Port A23 (between 1st treatment drum and middle drum)	0	0	0	0	0	0	0	0	1.5	8 **	0	0
A-line: Treatment Port A12 (between middle treatment drum and last drum)	0	0	0	0	0	0	0	0	0	0	0	0
B-line: Treatment Port B23 (between first treat drum and middle drum)	0	0	0	0	0	0	0	0	8	25 **	0	0
B-line: Treatment Port B12 (between middle treatment drum and last drum)	0	0	0	0	0	0	0	0	5	6	0	0
Exhaust Stack	0	0	0	0	0	0	0	0	0	0	0	0

In parts per million (ppm); ** Removed A and B line first position drum, positioned middle drums to first position, last drum to middle position, and a new drum for each line in last position.

Date:	7/22/2019	7/24/2019	8/5/2019	8/9/2019	8/15/2019*	8/28/2019	9/4/2019	9/11/2019	9/19/2019	9/27/2019	10/17/2019	10/28/2019
Positive Pressure side of Blower (Pre Treatment)	33.3	44.5	40.2	28.7	38.1	41.6	34.4	41.3	42.8	34.1	36.4	15.4
A-line: Treatment Port A12 (between middle treatment drum and last drum)	0	0	0	0	0	0	0	0	0	0	0	0
B-line: Treatment Port B12 (between middle treatment drum and last drum)	0	0	0	0.25	0.65	0	0	0	0	0	0	0
Exhaust Stack	0	0	0	0	0	0	0	0	0	0	0	0

In parts per million (ppm)
*Changed 55-gallon drum of carbon out and replaced.

Date:	10/30/2019*	11/18/2019	11/25/2019	11/29/2019	12/12/2019	12/21/2019	01/06/2020	01/22/2020	**01/24/2020	02/13/2020	02/18/2020
Positive Pressure side of Blower (Pre Treatment)	18.2	20.2	29.6	26.7	13.5	21.0	15.3	22.4	16.7/17.3	7.8	13.3
A-line: Treatment Port A12 (between middle treatment drum and last drum)	2.1*	0	0	0	0	0	0	0	1.24/0	0	0
B-line: Treatment Port B12 (between middle treatment drum and last drum)	0	0	0	0	0	0.34	0	0	0/0	0	0
Exhaust Stack	0	0	0	0	0	0	0	0	0/0	0	0

In parts per million (ppm)
* Replaced A-1 drum; **Pre/Post Drum Change on 01/24/2020

Date:	02/28/2020	*03/06?2020	**03/16/2020	‡03/25/2020	⁂06/03/2020	06/22/2020	07/16/2020	07/29/2020	08/31/2020	09/15/2020
Positive Pressure side of Blower (Pre Treatment)	12.1	13.8/10.3	16.2/21.6	12.1	17.1	17.9	14.2	N/A	N/A	N/A
A-line: Treatment Port A12 (between middle treatment drum and last drum)	0	0	0	N/A***	N/A	N/A	N/A	N/A	N/A	N/A
B-line: Treatment Port B12 (between middle treatment drum and last drum)	0	0	0	N/A***	N/A	N/A	N/A	N/A	N/A	N/A
Exhaust Stack	0	0	0/11.5***	10.2***	17.1	16.4	13.8	14.5	N/A	14.1

Date:	09/30/2020	10/16/2020	10/27/2020	11/06/2020	11/24/2020	12/24/2020	12/28/2020
Positive Pressure side of Blower (Pre Treatment)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A-line: Treatment Port A12 (between middle treatment drum and last drum)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B-line: Treatment Port B12 (between middle treatment drum and last drum)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exhaust Stack	12.7	14.2	9.4	5.8	6.1	15.75	4.7

In parts per million (ppm)
* Pre/Post Air Filter Change on 03/06/2020; **Removal of Carbon Drum Treatment
*** No Carbon Drum Treatment: ‡System shutdown due to Covid-19 restrictions;
⁂System Restarted Post Covid-19 Restrictions

Table 2.0a: SVE System Post Treatment Effluent VOC Mass Discharge Results
350 Northern Boulevard, Albany, New York (System Start up on April 18, 2019)

Volatile Organics in Air ($\mu g/m^3$)	05/10/2019	05/20/2019	06/07/2019	06/27/2019	07/24/2019	08/28/2019	09/27/2019	10/30/2019	11/29/2019	12/21/2019	01/24/2020	02/28/2020	06/25/2020	09/15/2020	12/15/2020
dichlorodifluoromethane	3.16	3.95	ND	2.91	1.31	2.40	ND	5.98	2.24	1.89	1.03	2.22	ND	ND	ND
chloromethane	ND	ND	0.731	ND	ND	ND	ND	1.25	ND	ND	8.9	ND	ND	ND	ND
*vinyl chloride	15.2	16.3	ND	4.17	3.37	4.09	8.79	1.81	6.21	3.55	1.48	2.97	ND	ND	ND
ethyl alcohol	ND	ND	ND	ND	ND	ND	ND	58.2	ND	ND	ND	ND	ND	ND	ND
ethanol	ND	33.2	ND	ND	ND	ND	ND	ND	ND	24.5	ND	ND	ND	ND	ND
acetone	ND	ND	22.3	ND	ND	ND	ND	45.6	ND	ND	ND	ND	ND	ND	ND
2-butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trichlorofluoromethane	ND	ND	ND	ND	ND	5.00	ND	2.79	3.70	1.45	ND	ND	ND	ND	ND
iso-propyl alcohol	ND	ND	ND	ND	ND	ND	ND	65.4	ND	ND	ND	ND	ND	ND	ND
isopropanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.31	ND	ND	ND	ND	ND
methylene chloride	ND	ND	ND	ND	2.36	ND	ND	2.43	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	9.36	9.44	1.39	2.73	2.53	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.858	ND	ND	ND	ND
2-butanone	ND	ND	ND	ND	ND	ND	ND	5.34	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	13.0	9.20	14.6	1.02	1.84	504	1,070	218	395	280	4.44	ND	4,560	2,320	710
tetrahydrofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-hexane	ND	ND	ND	ND	ND	ND	ND	0.786	ND	ND	ND	ND	ND	ND	ND
benzene	ND	ND	9.17	3.77	1.30	2.36	ND	14.4	1.22	0.719	1.18	ND	ND	ND	ND
cyclohexane	ND	ND	ND	ND	ND	ND	ND	1.08	ND	ND	ND	ND	ND	ND	ND
*trichloroethene (TCE)	10.2	8.28	3.48	ND	ND	ND	ND	10.6	ND	ND	ND	ND	1,920	1,130	400
heptane	ND	ND	ND	ND	ND	ND	ND	3.41	ND	ND	ND	ND	ND	ND	ND
toluene	ND	ND	ND	ND	ND	ND	ND	5.09	ND	ND	ND	ND	ND	ND	ND
*tetrachloroethene (PCE)	1,081.56	983.0	221	136	4.10	ND	ND	314	ND	1.58	15.7	ND	69,200	40,500	9,430
p/m- xylene	ND	ND	ND	ND	ND	ND	ND	1.83	ND	2.84	ND	ND	ND	ND	ND
o- xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.15	ND	ND	ND	ND	ND
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	1.15	ND	1.26	ND	ND	ND	ND	ND
Total VOC's	1,081.56	1,053.93	271.28	147.87	14.28	527.21	1,088.23	763.78	411.10	323.78	33.59	5.19	75,700.00	43,950.00	10,540
Airflow Rate (cfm)	55.0	52.0	99.0	83.0	99.0	77.0	77.0	74.0	72.0	68.0	66.0	55.0	60.75	58.5	76
VOC Mass Discharge Rate (lbs/hour)	$2.2E^{-4}$	$2.0E^{-4}$	$1.0E^{-4}$	$4.6E^{-5}$	$5.3E^{-6}$	$1.5E^{-4}$	$3.2E^{-4}$	$2.1E^{-4}$	$1.1E^{-4}$	$8.2E^{-5}$	$8.3E^{-6}$	$1.1E^{-6}$	$1.7E^{-2}$	$9.6E^{-3}$	$3.0E^{-3}$

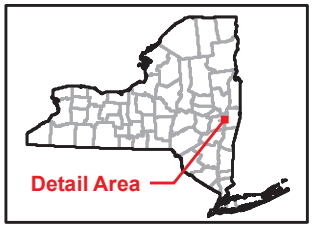
* 6CRRNY 212-2.2 Table 2 High Toxicity Air Contaminant (HTAC) PCE, limited to 0.11 pound per hour mass discharge; TCE limited to 0.057 pounds per hour discharge.
Contaminant Concentrations in $\mu g/m^3$ -micrograms per cubic meter, unless stated otherwise.
lb/hr - Pounds per hour; cfm - cubic feet per minute;

FIGURES

LEGEND

Site Boundary (approx.)

Source:
-NYSDOT 7.5-minute topographic map (Albany and Troy South quadrangles).
-Elevations are shown in feet above mean sea level.
-Contour interval is 10 feet.



ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 1
Site Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

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LEGEND

- BCP Site Property Boundary
- Former Dry Cleaner
- Ground Water Monitoring Well
- Soil Vapor Extraction Well
- Soil Vapor Monitoring Point

Notes:
-Parcel boundaries: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Tenants are shown as of September 2020.
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 2
Site Layout

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Layout.mxd
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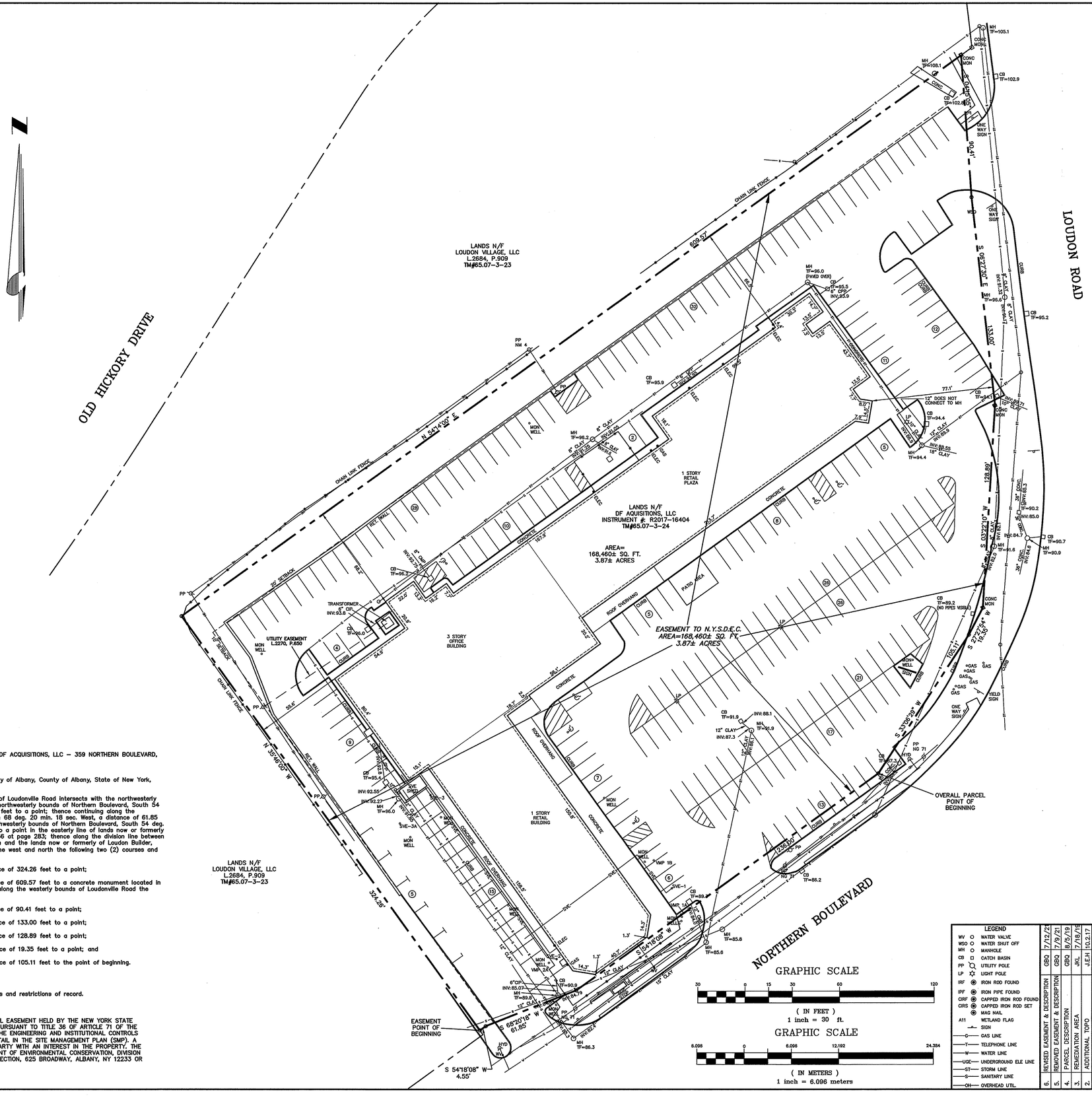
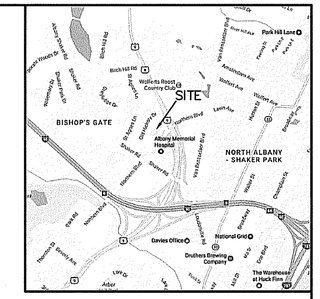




SITE LOCATION MAP

NOTES:

1. PREPARED BY ABD ENGINEERS, LLP, FROM A FIELD SURVEY COMPLETED ON JUNE 5, 2017. UPDATED JULY 23, 2019.
2. UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE SHOWN FROM FIELD LOCATIONS (IF POSSIBLE) AND OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY BE DIFFERENT FROM THAT SHOWN AND OTHER HIDDEN UNDERGROUND IMPROVEMENTS MAY EXIST. NO CERTIFICATION IS MADE TO THE ACCURACIES OF UNDERGROUND LOCATIONS. CALL DIG SAFE NEW YORK BY DIALING 811 PRIOR TO ANY EXCAVATING, BLASTING, DRILLING, OR DRIVING.
3. CORNER MARKERS HAVE NOT BEEN SET UNLESS OTHERWISE INDICATED HEREON.

DEED REFERENCE:

1. DEED TO SKY FOUR REALTY, LLC FROM SKY FOUR REALTY COMPANY, DATED APRIL 30, 1976, AND RECORDED IN THE ALBANY COUNTY CLERK'S OFFICE ON APRIL 30, 1976 IN LIBER 2113 AT PAGE 371.
2. DEED TO SKY FOUR REALTY, LLC FROM CITY OF ALBANY INDUSTRIAL DEVELOPMENT AGENCY, DATED JANUARY 8, 1987, AND RECORDED IN THE ALBANY COUNTY CLERK'S OFFICE ON JANUARY 16, 1987 IN LIBER 2330 AT PAGE 71.
3. DEED TO DF ACQUISITIONS, LLC FROM SKY FOUR REALTY, LLC DATED APRIL 24, 2017 AND RECORDED IN THE ALBANY COUNTY CLERK'S OFFICE AS INSTRUMENT NYMBER R2017-16404.

MAP REFERENCE:

"CERTIFIED BOUNDARY RETRACTMENT SURVEY LANDS N/F SKY-FOUR REALTY CO. L.2330, P.71 LOUDON PLAZA 359 NORTHERN BOULEVARD", PREPARED BY ABD ENGINEERS, LLP DATED JULY 17, 2017, REVISED OCTOBER 2, 2017.

ZONING:
ZONE MU-CH MIXED USE-COMMUNITY HIGHWAY

MIN. LOT WIDTH	50 FEET
MAX. BLDG. HT.	5 1/2 STORIES 3 STORIES IF NEXT TO RESIDENTIAL 1 1/2 STORIES ACCESSORY BUILDING

SETBACKS:

FRONT	MAX. FRONT SETBACK IS 100 FEET
SIDE	10 FEET
REAR	20 FEET

FLOOD ZONE DESIGNATION:
AS DESIGNATED ON FLOOD RATE INSURANCE MAP, CITY OF ALBANY, ALBANY COUNTY, STATE OF NEW YORK, COMMUNITY PANEL NUMBER 360001, PANEL 211D, EFFECTIVE MARCH 16, 2015, ZONE X - AREAS OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN.

PARCEL AND EASEMENT DESCRIPTION LANDS N/F DF ACQUISITIONS, LLC - 359 NORTHERN BOULEVARD, CITY OF ALBANY

ALL that certain parcel of land, situate in the City of Albany, County of Albany, State of New York, and being more particularly described as follows:

BEGINNING at a point where the westerly bounds of Loudonville Road intersects with the northwesterly bounds of Northern Boulevard; thence along the northwesterly bounds of Northern Boulevard, South 54 deg. 18 min. 08 sec. West, a distance of 236.00 feet to a point; thence continuing along the northwesterly bounds of Northern Boulevard, South 68 deg. 20 min. 18 sec. West, a distance of 61.85 feet to a point; thence continuing along the northwesterly bounds of Northern Boulevard, South 54 deg. 18 min. 08 sec. West, a distance of 4.55 feet to a point in the easterly line of lands now or formerly of Loudon Builders, Inc., as described in Liber 1256 at page 283; thence along the division line between the parcel herein described to the east and south and the lands now or formerly of Loudon Builder, Inc. as described in Liber 1256 at page 283 to the west and north the following two (2) courses and distances:

1) North 35 deg. 46 min. 00 sec. West, a distance of 324.26 feet to a point;

2) North 54 deg. 14 min. 00 sec. East, a distance of 609.57 feet to a concrete monument located in the westerly bounds of Loudonville Road; thence along the westerly bounds of Loudonville Road the following five (5) courses and distances:

1) South 04 deg. 15 min. 05 sec. East, a distance of 90.41 feet to a point;

2) South 06 deg. 27 min. 30 sec. East, a distance of 133.00 feet to a point;

3) South 03 deg. 22 min. 10 sec. West, a distance of 128.89 feet to a point;

4) South 27 deg. 27 min. 54 sec. West, a distance of 19.35 feet to a point; and

5) South 33 deg. 06 min. 29 sec. West, a distance of 105.11 feet to the point of beginning.

CONTAINING 3.87 ACRES, MORE OR LESS.

SUBJECT TO any enforceable easements, covenants and restrictions of record.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV.

LEGEND

WV	WATER VALVE
WSO	WATER SHUT OFF
MH	MANHOLE
CB	CATCH BASIN
PP	UTILITY POLE
LP	LIGHT POLE
IRF	IRON ROD FOUND
IPF	IRON PIPE FOUND
CIRF	CAPPED IRON ROD FOUND
CIRS	CAPPED IRON ROD SET
	MAG NAIL
A11	WETLAND FLAG
	SIGN
	GAS LINE
	TELEPHONE LINE
	WATER LINE
UGE	UNDERGROUND ELE LINE
ST	STORM LINE
S	SANITARY LINE
OH	OVERHEAD UTIL.

NO.	REVISION	BY	DATE
1.	SPELLING	RCS	7.26.17
2.	ADDITIONAL TOPO	JEH	10.2.17
3.	REMEDIATION AREA	JKL	7/19/18
4.	PARCEL DESCRIPTION	GBQ	8/5/19
5.	REMOVED EASEMENT & DESCRIPTION	GBQ	7/9/21
6.	REVISED EASEMENT & DESCRIPTION	GBQ	7/12/22

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE VALID COPIES.
CERTIFICATIONS INDICATED OR APPLIED HEREON SHALL ONLY RUN TO THE PARTY FOR WHOM THE SURVEY WAS PREPARED, & ON HIS BEHALF TO THE AGENCY NAMED PARTIES LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL PARTIES OR SUBSEQUENT OWNERS NOT LISTED HEREON.

STATE OF NEW YORK
MARK C. BLACKSTONE
049542
LICENSED LAND SURVEYOR

MARK C. BLACKSTONE, P.L.S.
N.Y.S. LICENSE NO. 49542

ENVIRONMENTAL EASEMENT OF LANDS N/F DF ACQUISITIONS, LLC INSTRUMENT #2017-16404 LOUDON PLAZA 350 NORTHERN BOULEVARD

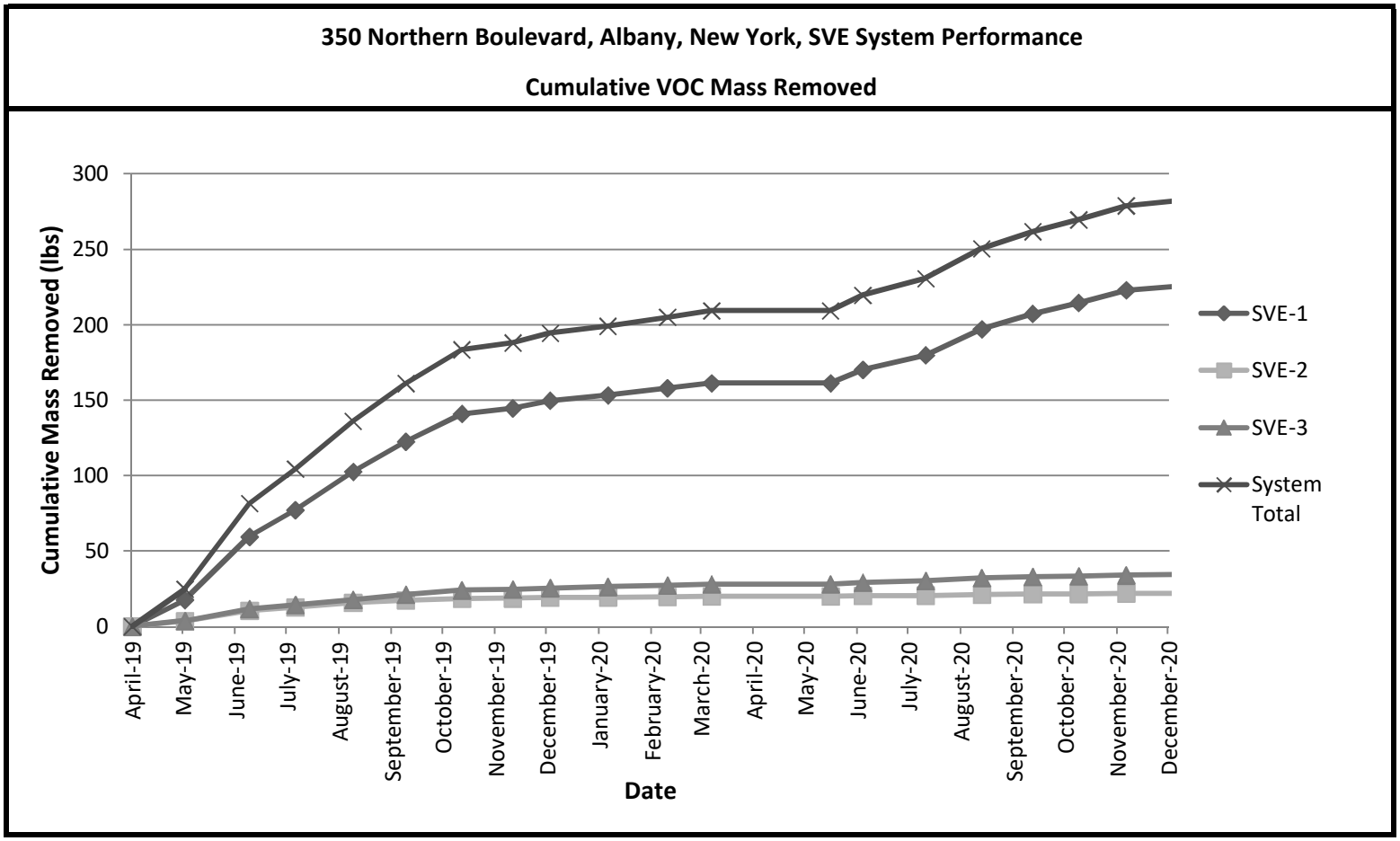
CITY OF ALBANY | COUNTY OF ALBANY

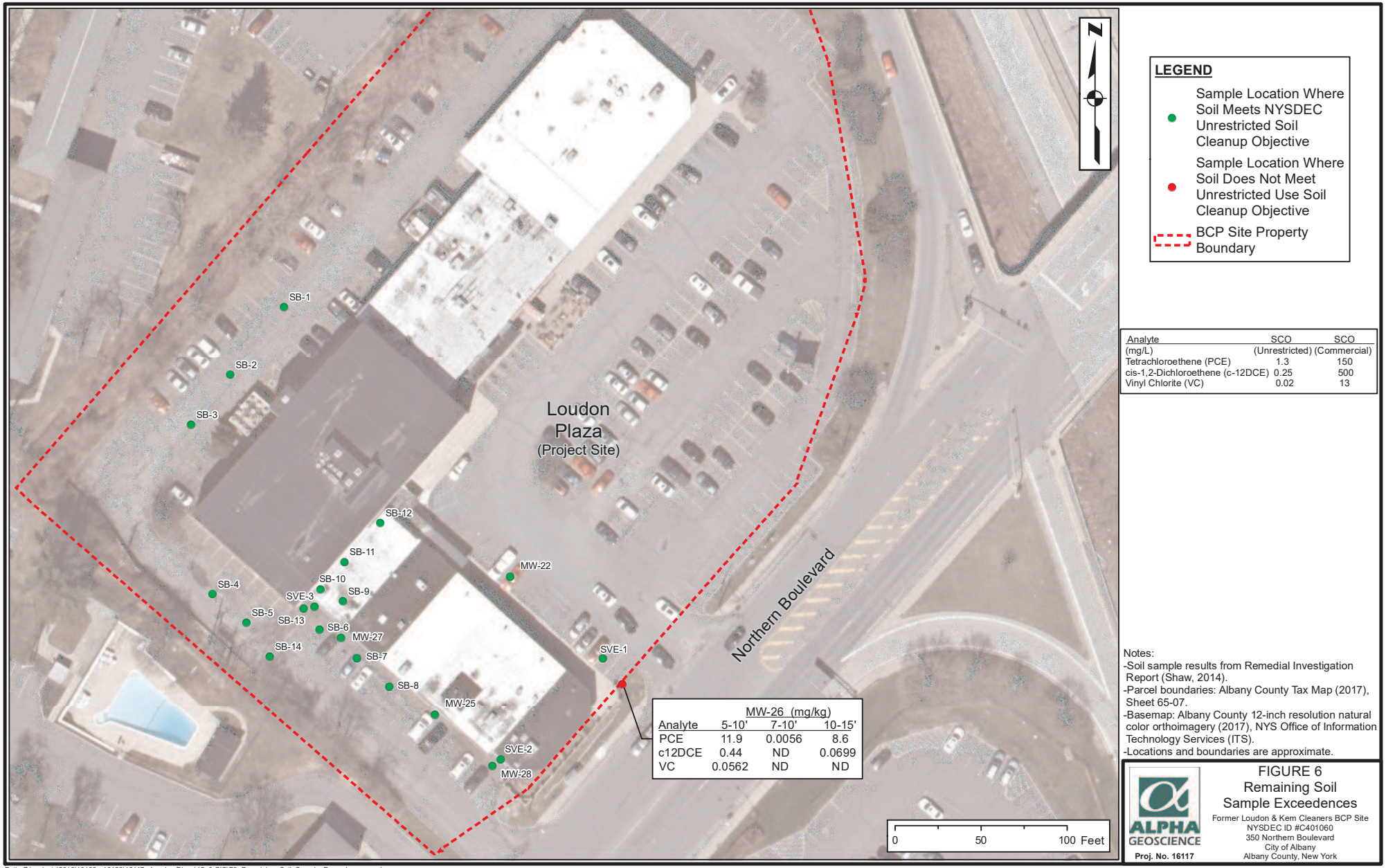
STATE OF NEW YORK

ABD ENGINEERS, LLP
411 Union Street
Schenectady, NY 12305
518-377-0315 Fax 518-377-0379
www.abdeng.com

DATE:	SCALE:	DWG.	SHEET OF
JULY 24, 2019	1" = 30'	4787A-ENV	1 1

Figure 4: Cumulative VOC Mass Removed with SVE System





Analyte (mg/L)	SCO (Unrestricted)	SCO (Commercial)
Tetrachloroethene (PCE)	1.3	150
cis-1,2-Dichloroethene (c-12DCE)	0.25	500
Vinyl Chlorite (VC)	0.02	13

Notes:
-Soil sample results from Remedial Investigation Report (Shaw, 2014).
-Parcel boundaries: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE
Proj. No. 16117

FIGURE 6
Remaining Soil Sample Exceedences

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\F6_Remaining_Soil_Sample_Exceedences.mxd
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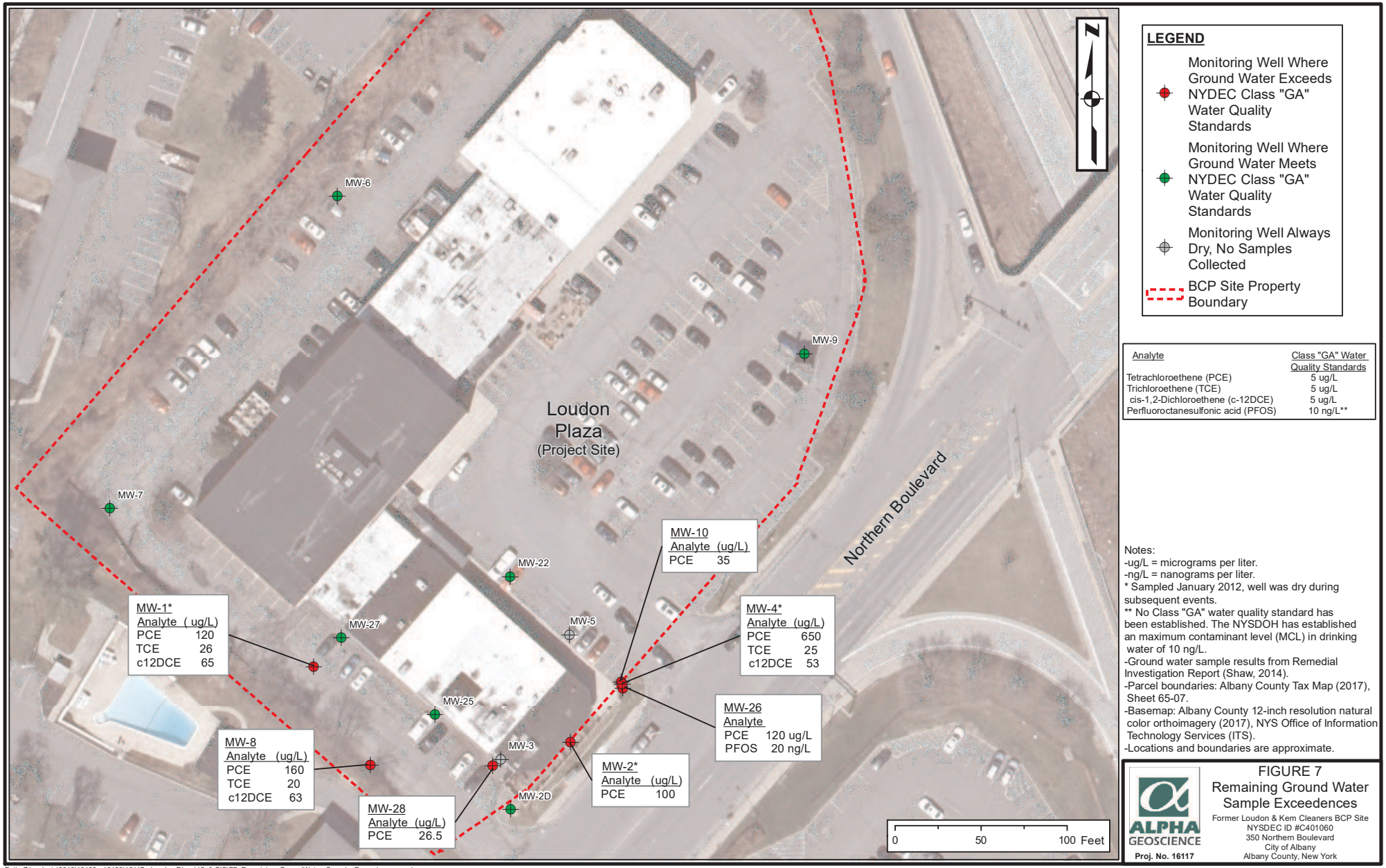

LEGEND

- Monitoring Well Where Ground Water Exceeds NYDEC Class "GA" Water Quality Standards
- Monitoring Well Where Ground Water Meets NYDEC Class "GA" Water Quality Standards
- Monitoring Well Always Dry, No Samples Collected
- BCP Site Property Boundary

Analyte	Class "GA" Water Quality Standards
Tetrachloroethene (PCE)	5 ug/L
Trichloroethene (TCE)	5 ug/L
cis-1,2-Dichloroethene (c-12DCE)	5 ug/L
Perfluoroctanesulfonic acid (PFOS)	10 ng/L**

Notes:
-ug/L = micrograms per liter.
-ng/L = nanograms per liter.
* Sampled January 2012, well was dry during subsequent events.
** No Class "GA" water quality standard has been established. The NYSDOH has established an maximum contaminant level (MCL) in drinking water of 10 ng/L.
-Ground water sample results from Remedial Investigation Report (Shaw, 2014).
-Parcel boundaries: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE
Proj. No. 16117

FIGURE 7
Remaining Ground Water Sample Exceedences

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\F7_Remaining_GroundWater_Sample_Exceedences.mxd
Date Saved: 7/30/2021 2:09:25 PM

Notes:
-Parcel boundaries: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Tenants shown as of September 2020.
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE
Proj. No. 16117

FIGURE 8
Area of Soil Vapor Intrusion Concern
Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\F8_Area_of_Soil_Vapor_Intrusion_Concern.mxd
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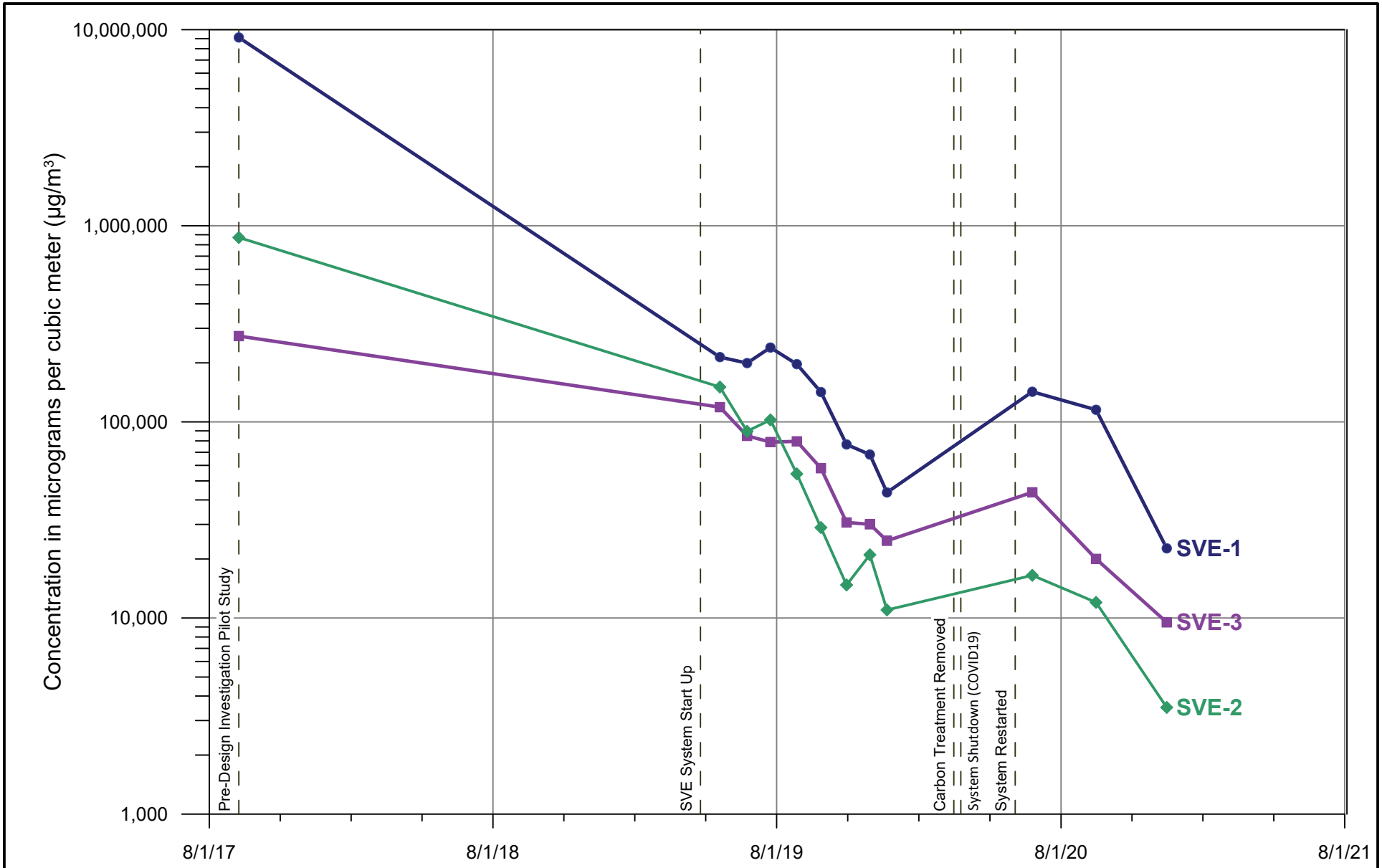

FIGURE 9
Total VOCs in Soil Vapor

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

ALPHA GEOSCIENCE
Project No. 16117

Notes:
-µg/m³ = micrograms per cubic meter.
-Sampling performed by Alpine Environmental Service, Inc.

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LEGEND

BCP Site Property Boundary

Notes:
-Institutional Controls (IC's) apply to parcel defined in the Environmental Easement (Appendix B).
-Parcel boundary: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 10
Institutional Control Boundaries

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

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Notes:
-Parcel boundaries: Albany County Tax Map (2017), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2017), NYS Office of Information Technology Services (ITS).
-Tenants shown as of September 2020.
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE
Proj. No. 16117

FIGURE 11
Engineering Control Locations
Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

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Appendix B: Digital Copy of the FER (CD)

Appendix C: Environmental Easement

ALBANY COUNTY – STATE OF NEW YORK
BRUCE A. HIDLEY COUNTY CLERK
16 EAGLE STREET, ALBANY, NEW YORK 12207

COUNTY CLERK'S RECORDING PAGE
THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH

INSTRUMENT #: R2021-34342

Receipt#: 20210497598
Clerk: KT
Rec Date: 11/12/2021 09:16:49 AM
Doc Grp: D
Descrip: DEED, EASEMENT
Num Pgs: 10
Rec'd Frm: Whiteman Osterman & Hanna LLP

Party1: DF ACQUISITIONS
Party2: PEOPLE OF THE STATE OF NEW YORK

Recording:

Cover Page	5.00
Recording Fee	65.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00
Sub Total:	95.00

Transfer Tax

Transfer Tax - State	0.00
Sub Total:	0.00
Total:	95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 2608
Transfer Tax

Total: 0.00

THIS PAGE CONSTITUTES THE CLERK'S ENDORSEMENT, REQUIRED BY SECTION 316-a (5) & 319 OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK.

Record and Return To:

WHITEMAN OSTERMAN & HANNA LLP
1 COMMERCE PLZ
ALBANY, NY 12260

Bruce A. Hidley
Albany County Clerk

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 4th day of November, 2021 between Owner, DF Acquisitions, LLC, having an office at 27 Burton Lane, Albany, New York 12211 (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 350 Northern Boulevard in the City of Albany, County of Albany and State of New York, known and designated on the tax map of the County Clerk of Albany as tax map parcel number: Section 65.07 Block 3 Lot 24, being the same as that property conveyed to Grantor by deed dated April 24, 2017 and recorded in the Albany County Clerk's Office in Instrument No. R2017-16404. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 3.87 +/- acres, and is hereinafter more fully described in the Land Title Survey dated July 24, 2019 and last revised September 8, 2021 prepared by Mark C. Blackstone, L.L.S. of ABD Engineers, LLP, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C401060-08-16, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Albany 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;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) 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 this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a

defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C401060
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

DF Acquisitions, LLC:

By: _____

Print Name: Frank Lanni

Title: Member Date: 10/1/2021

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Albany)

On the 1st day of October in the year 2021, before me, the undersigned, personally appeared Frank Lanni, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

ANDREIA SANTA
Notary Public, State of New York
No. 01SA6087471
Qualified in Albany County
Commission Expires February 18, 2023

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 4th day of November in the year 2021, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

LISA A. COVERT
Notary Public, State of New York
No. 02CO6371712
Qualified in Rensselaer County
Commission Expires March 5, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

PARCEL AND EASEMENT DESCRIPTION LANDS N/F DF ACQUISITIONS, LLC - 359 NORTHERN BOULEVARD, CITY OF ALBANY

ALL that certain parcel of land, situate in the City of Albany, County of Albany, State of New York, and being more particularly described as follows:

BEGINNING at a point where the westerly bounds of Loudonville Road intersects with the northwesterly bounds of Northern Boulevard; thence along the northwesterly bounds of Northern Boulevard, South 54 deg. 18 min. 08 sec. West, a distance of 236.00 feet to a point; thence continuing along the northwesterly bounds of Northern Boulevard, South 68 deg. 20 min. 18 sec. West, a distance of 61.85 feet to a point; thence continuing along the northwesterly bounds of Northern Boulevard, South 54 deg. 18 min. 08 sec. West, a distance of 4.55 feet to a point in the easterly line of lands now or formerly of Loudon Builders, Inc., as described in Liber 1256 at page 283; thence along the division line between the parcel herein described to the east and south and the lands now or formerly of Loudon Builder, Inc. as described in Liber 1256 at page 283 to the west and north the following two (2) courses and distances:

1) North 35 deg. 46 min. 00 sec. West, a distance of 324.26 feet to a point;

2) North 54 deg. 14 min. 00 sec. East, a distance of 609.57 feet to a concrete monument located in the westerly bounds of Loudonville Road; thence along the westerly bounds of Loudonville Road the following five (5) courses and distances:

1) South 04 deg. 15 min. 05 sec. East, a distance of 90.41 feet to a point;

2) South 06 deg. 27 min. 30 sec. East, a distance of 133.00 feet to a point;

3) South 03 deg. 22 min. 10 sec. West, a distance of 128.89 feet to a point;

4) South 27 deg. 27 min. 54 sec. West, a distance of 19.35 feet to a point; and

5) South 33 deg. 06 min. 29 sec. West, a distance of 105.11 feet to the point of beginning.

CONTAINING 3.87 ACRES, MORE OR LESS.

SUBJECT TO any enforceable easements, covenants and restrictions of record.

Appendix D: NYSDEC Approvals of Substantive Technical Requirements

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
P: (518) 402-9768 I F: (518) 402-9773
www.dec.ny.gov

September 18, 2018

Mark Schnitzer
Alpine Engineering Services LLC
438 New Karner Road
Albany, NY 12205

Re: **Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation**
Former Loudon and Kem Cleaners (BCP #C401060)
350 Northern Boulevard
Albany, NY 12204

Dear Mr. Schnitzer:

The New York State Department of Environmental Conservation (Department) has received the revised September 18, 2018 Remedial Design Report for Soil Vapor Extraction (SVE) and Vapor Mitigation prepared by Alpine Engineering Services LLC (Alpine), on behalf of DF Acquisitions, LLC (Volunteer) for the Former Loudon and Kem Cleaners BCP Site located at 350 Northern Boulevard, Albany, NY. The vapor mitigation component of this work has already been installed, and this submittal sufficiently addresses the Department's September 13, 2018 comments as they pertain to the excavation activities related to installation of the sanitary sewer piping and SVE piping. The September 13th comments related to the draft Excavation Work Plan will need to be incorporated into the draft Site Management Plan.

Following review of the revised September 18th Remedial Design Report, the Department hereby approves the report provided the following:

1. A copy of the September 18th Remedial Design Report is placed in the local document repository; and

2. The Department is given at least 7 days' notice prior to the start of field activities conducted under the approved Remedial Design Report such that Department staff can have an opportunity to oversee this work pursuant to 6 NYCRR Part 375-1.6(a)(4).

Please contact me with any questions at (518) 402-8644 or at kyle.forster@dec.ny.gov.

Sincerely,

Kyle Forster
Project Manager

ec: J. Brown
G. Burke
R. Mustico
C. Bower, OGC
Kim Baines, Alpine
Scott Hulseapple, Alpha Geoscience
Frank Lanni, DF Acquisitions, LLC
John Privitera, Esq.
Ryan Coyne, Esq.

Appendix E: Monthly Reports

MONTHLY PROGRESS REPORT
March 10, 2017
Former Loudon and Kem Cleaners
Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (February 2017):

Actions:
The foreclosure process is progressing. The judge granted the order allowing the sale of the property. A referee has been appointed to conduct the sale, and the volunteer expects to take possession in the next quarter.

Sampling and Test Results:
No samples were collected during the February 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the February 2017 reporting period. The Pre-Design Investigation (PDI) Work Plan was approved

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the February 2017 reporting period.

NEXT MONTH (March 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will commence once the volunteer takes possession of the property.

Sampling and Test Results:
No samples are anticipated during the March 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the March 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in February 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in February 2017.

MONTHLY PROGRESS REPORT
April 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (March 2017):

Actions:
The foreclosure process is progressing. The volunteer anticipates having title to the property by the end of April.

Sampling and Test Results:
No samples were collected during the March 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the March 2017 reporting period. The Pre-Design Investigation (PDI) Work Plan was approved

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the March 2017 reporting period.

NEXT MONTH (April 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will commence once the volunteer takes possession of the property.

Sampling and Test Results:
No samples are anticipated during the April 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the April 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in March 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in March 2017.

MONTHLY PROGRESS REPORT
May 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (April 2017):

Actions:
The foreclosure process is complete. The volunteer obtained title to the property on April 24, 2017.

Sampling and Test Results:
No samples were collected during the April 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the April 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the April 2017 reporting period.

NEXT MONTH (May 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will commence in May. A site survey to identify and mark underground utilities has been initiated.

Sampling and Test Results:
No samples are anticipated during the May 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the May 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in April 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in April 2017.

MONTHLY PROGRESS REPORT
June 12, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (May 2017):

Actions:
The foreclosure process is complete. The volunteer obtained title to the property on April 24, 2017. Preparations for field work began in May, including locating and surveying underground utilities.

Sampling and Test Results:
No samples were collected during the May 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the May 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the May 2017 reporting period.

NEXT MONTH (June 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will commence in June. Drilling will be scheduled upon completion of the utility survey.

Sampling and Test Results:
No samples are anticipated during the June 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the June 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
There were delays in the underground utility mark out and survey. A revised schedule will be prepared once the survey is complete and drilling is scheduled.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in May 2017.

MONTHLY PROGRESS REPORT
July 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (June 2017):

Actions:
Preparations for field work continued in June, including locating and surveying underground utilities.

Sampling and Test Results:
No samples were collected during the June 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the June 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the June 2017 reporting period.

NEXT MONTH (July 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will commence in July. Drilling and installation of the soil vapor extraction wells and monitoring points will commence on July 17th.

Sampling and Test Results:
No samples are anticipated during the July 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the July 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
There were delays in the underground utility mark out and survey. A revised schedule will be prepared once the drilling is complete.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in June 2017.

MONTHLY PROGRESS REPORT
August 4, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (July 2017):

Actions:
The soil vapor extraction wells (SVE-1, SVE-2, and SVE-3) and soil vapor monitoring points (VMP-1A, VMP-1B, VMP-2A, VMP-2B, and VMP-3A) for the pre-design investigation were installed (see attached map).

Sampling and Test Results:
Soil samples were collected during the installation of the vapor extraction wells SVE-1 and SVE-3. The samples were analyzed for VOCs for the purpose of determining transport and off-site disposal of soil cuttings. The results were submitted to the NYSDEC separately.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the July 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the July 2017 reporting period.

NEXT MONTH (August 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will continue in August. Drilling and installation of the soil vapor extraction wells and monitoring points will commence on August 17th.

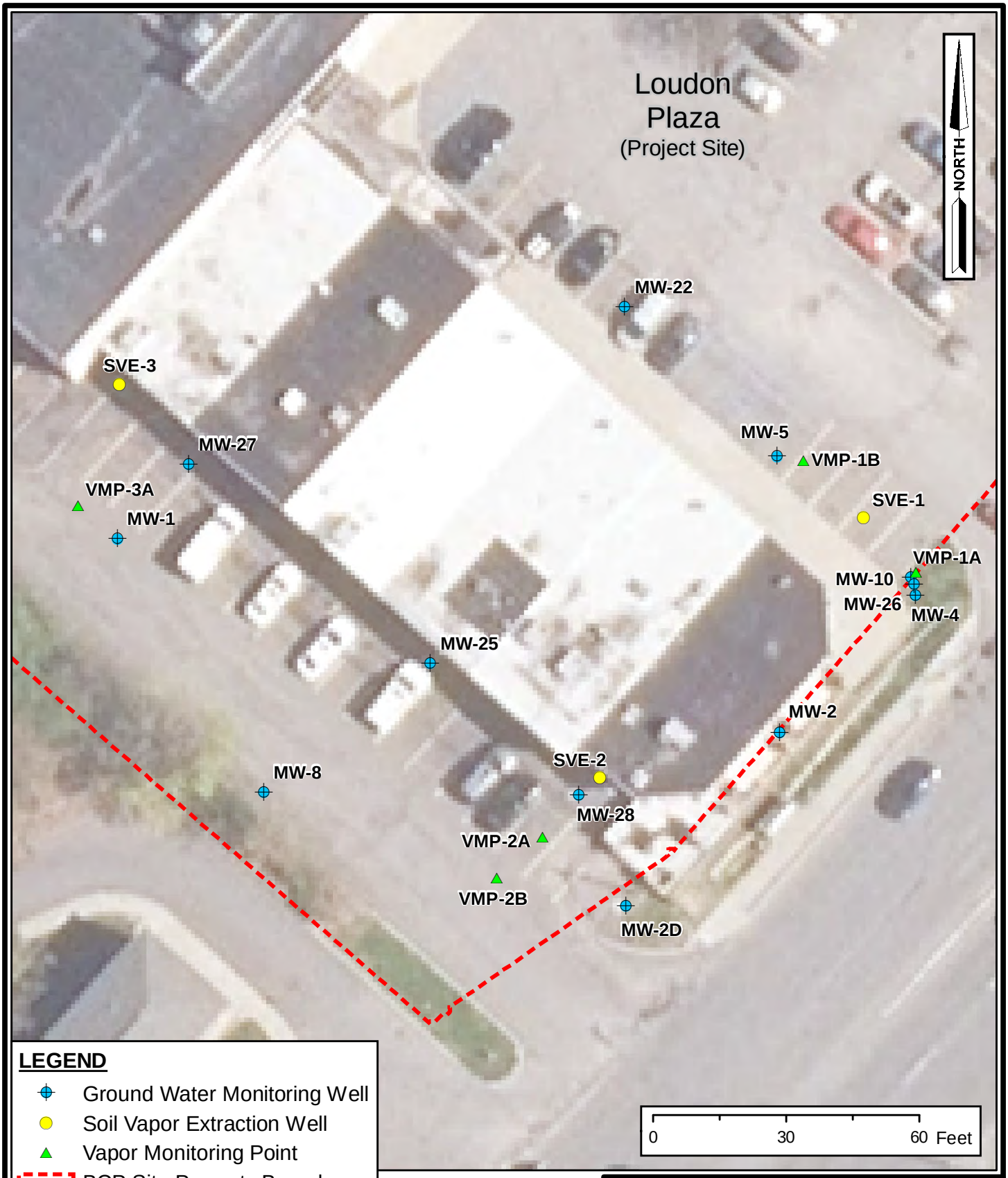
Sampling and Test Results:
No samples are anticipated during the August 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the August 2017 reporting period.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
There were delays in performing the sub-slab depressurization PDI due to the presence of non-friable asbestos containing floor tiles in the work area. The Volunteer is obtaining pricing from abatement contractors to remove the tiles from the work areas.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in July 2017.



LEGEND

- Ground Water Monitoring Well
- Soil Vapor Extraction Well
- Vapor Monitoring Point
- BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 1
Well Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Map.mxd
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MONTHLY PROGRESS REPORT
September 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (August 2017):

Actions:
Pre-design investigation (PDI) field testing on two of the three soil vapor extraction (SVE) wells was completed in August.

Asbestos-containing floor tiles in the work area for the sub-slab depressurization system (SSDS) PDI was completed on August 30th. PDI field work for the SSDS will commence once the final asbestos inspection is completed.

Soil cuttings generated during the installation of the SVE wells were picked-up transported off-site by MC Environmental Services (MCES) to the Veolia Environmental Services, LLC transfer facility in Schenectady for disposal at one of Veolia's treatment/disposal facilities.

Sampling and Test Results:
Soil samples were collected in July during the installation of the vapor extraction wells SVE-1 and SVE-3. The samples were analyzed for VOCs for the purpose of determining transport and off-site disposal of soil cuttings. The results were received and submitted to the NYSDEC in August with the "Contained-In" Determination Request. The "Contained-In" determination request was approved, allowing for the disposal of the drummed soil cuttings as non-hazardous waste.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the August 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the August 2017 reporting period.

NEXT MONTH (September 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will continue in September. Pre-design investigation field work for the sub-slab depressurization system and the third soil vapor extraction wells will be completed.

Sampling and Test Results:
No samples are anticipated during the September 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the September 2017 reporting period. Once the PDI field work is completed, the remedial systems design will be prepared and submitted to the NYSDEC.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

MONTHLY PROGRESS REPORT
September 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

***SCHEDULE* (percent complete, delays, corrective measures):**

There were delays in performing the sub-slab depressurization PDI due to the presence of non-friable asbestos containing floor tiles in the work area. The Volunteer contracted an abatement contractor to remove the tiles from the work areas. Abatement activities were completed and results of the final inspection will be available during the September reporting period.

WORK PLAN MODIFICATIONS:

There were no work plan modifications proposed in August 2017.

Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\5_0 Reports\Monthly Progress Reports\2017-08 Progress Report.docx

MONTHLY PROGRESS REPORT
October 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (September 2017):

Actions:
Pre-design investigation (PDI) field testing area for the sub-slab depressurization system (SSDS) and the soil vapor extraction (SVE) wells was completed in September. Engineering design of the remedial system began during the September reporting period.

Sampling and Test Results:
No samples were collected during the June 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the September 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the September 2017 reporting period.

NEXT MONTH (October 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will continue in October. Pre-design investigation field work for the sub-slab depressurization system and the third soil vapor extraction wells will be completed.

Sampling and Test Results:
No samples are anticipated during the October 2017 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the October 2017 reporting period. The remedial systems design will be prepared for submittal to the NYSDEC.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
There were delays in performing the sub-slab depressurization PDI due to the presence of non-friable asbestos containing floor tiles in the work area. The Volunteer contracted an abatement contractor to remove the tiles from the work areas. Abatement activities were completed in August and results of the final inspection were received in September.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in September 2017.

MONTHLY PROGRESS REPORT
November 10, 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (October 2017):

Actions:
Engineering design of the for the sub-slab depressurization system (SSDS) and the soil vapor extraction (SVE) remedial system continued during the October reporting period.

Sampling and Test Results:
No samples were collected during the October 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the October 2017 reporting period. Alpine began to prepare a draft Remedial Design Report.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the October 2017 reporting period.

NEXT MONTH (November 2017):

Actions:
Implementation of the scope of work contained in the PDI Work Plan will continue in November.

Sampling and Test Results:
No samples are anticipated during the November 2017 reporting period.

Work Plans, Reports, and Deliverables:
The remedial systems design report will be submitted to the NYSDEC.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in October 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in October 2017.

MONTHLY PROGRESS REPORT
November 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (November 2017):

Actions:
Engineering design of the for the sub-slab depressurization system (SSDS) and the soil vapor extraction (SVE) remedial system continued during the November reporting period.

Sampling and Test Results:
No samples were collected during the November 2017 reporting period. The laboratory results for samples collected during the Pre-Design Investigation were included in the draft Remedial Design Report.

Work Plans, Reports, and Deliverables:
The draft Remedial Design Report, which included the results of the Pre-Design Investigation was submitted on November 28, 2017.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the October 2017 reporting period.

NEXT MONTH (December 2017):

Actions:
The NYSDEC will review the draft Remedial Design Report and provide comments.

Sampling and Test Results:
No samples are anticipated during the December 2017 reporting period.

Work Plans, Reports, and Deliverables:
The revised remedial systems design report will be submitted to the NYSDEC.

Citizen Participation Plan Activities:
The PDI Work Plan is available for public review at the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in November 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in November 2017.

MONTHLY PROGRESS REPORT
December 2017
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (December 2017):

Actions:
The NYSDEC provided comments to the November 28, 2017 draft Remedial Design Report and Alpine Engineering prepared a revised design of the sub-slab depressurization system (SSDS). Design of the soil vapor extraction (SVE) remedial system continued December reporting period.

Sampling and Test Results:
No samples were collected during the December 2017 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the December 2017 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the December 2017 reporting period.

NEXT MONTH (January 2018):

Actions:
Installation of the SSDS will commence during January 2018, pending NYSDEC approval of the revised SSDS design. Options for the treatment of the SVE exhaust will be evaluated and a revised SVE system design will be submitted.

Sampling and Test Results:
No samples are anticipated during the January 2018 reporting period.

Work Plans, Reports, and Deliverables:
Alpine will prepare a revised SVE System Design Report.

Citizen Participation Plan Activities:
Copies of the approved remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in December 2017.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in December 2017.

MONTHLY PROGRESS REPORT
January 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (January 2018):

Actions:
Alpine submitted a final design of the sub-slab depressurization system (SSDS) to the NYSDEC on January 5, 2018. Design of the soil vapor extraction (SVE) remedial system continued December reporting period.

Sampling and Test Results:
No samples were collected during the January 2018 reporting period.

Work Plans, Reports, and Deliverables:
Alpine submitted a final design of the sub-slab depressurization system (SSDS) to the NYSDEC on January 5, 2018.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the January 2018 reporting period.

NEXT MONTH (February 2018):

Actions:
Installation of the SSDS will commence during the week of February 26, 2018. A path of construction asbestos survey and, if necessary, abatement, will commence prior to the February 26th start of the SSDS installation. Options for the treatment of the SVE exhaust will be evaluated.

Sampling and Test Results:
No samples are anticipated during the February 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables are anticipated during the February 2018 reporting period.

Citizen Participation Plan Activities:
Copies of the remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
A revised project schedule will be submitted prior to February 10, 2018.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in January 2018.

MONTHLY PROGRESS REPORT
February 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (February 2018):

Actions:
Installation of the SSDS began during the week of February 26, 2018. A path of construction asbestos survey and a limited abatement were completed.

Sampling and Test Results:
No soil, ground water, or air samples were collected during the February 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables are anticipated during the February 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the February 2018 reporting period.

NEXT MONTH (March 2018):

Actions:
Installation of the SSDS will be completed by March 23, 2018. The volunteer will meet with the NYSDEC on March 9, 2018 to discuss options for the SVE system design. It is anticipated that a revised SVE design report will be submitted once an agreement is reached. Installation of the SVE system will begin after the SVE system design has been approved.

Sampling and Test Results:
No samples are anticipated during the March 2018 reporting period.

Work Plans, Reports, and Deliverables:
It is anticipated that a revised SVE design report will be submitted pending an agreement is reached on the SVE exhaust treatment requirements. No other work plans, reports, or deliverables are anticipated during the March 2018 reporting period.

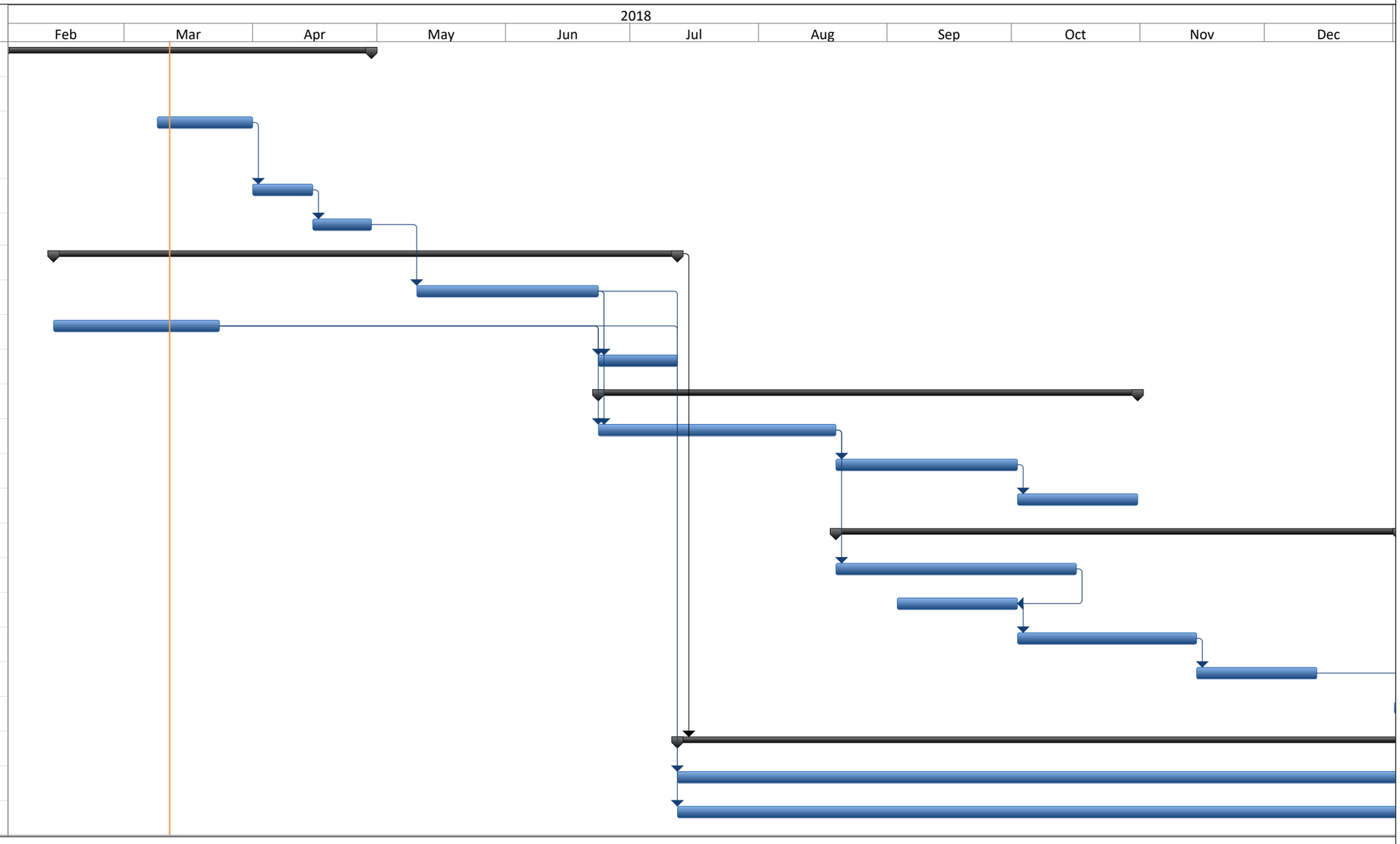
Citizen Participation Plan Activities:
Copies of the final remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
A revised project schedule is attached to this report.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in February 2018.

Remedial Program Schedule
Former Loudon & Kem Cleaners
Albany. New York
NYSDEC Site No. C401060

Task Name
Remedial Design
SSDS Design (Completed)
Submit Updated Remedial Design Report with SVE Exhaust Treatment
NYSDEC Review Revised SVE Design
Review NYSDEC Comments & Finalize
Remedial Construction & Implementaion
Install & Test SVE
Install & Test SSDS
Final Site Survey
Final Engineering Report
Prepare FER
NYSDEC Review
Finalize FER
Site Management Plan
Deed Restrictions
Prepare SMP
NYSDEC Review
Finalize SMP
Certificate of Completion
Operation, Maintenance, & Monitoring
SVE O&M
SSDS O&M



Project: Project Schedule_rev.mp
Date: Mon 3/12/18

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Progress
Milestone	External Milestone	Manual Task	Start-only	
Summary	Inactive Task	Duration-only	Finish-only	

MONTHLY PROGRESS REPORT
March 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (March 2018):

Actions:
Representatives from the NYSDEC and the Volunteer met on March 9, 2018 to discuss the requirements for carbon treatment of the exhaust from the soil vapor extraction (SVE). On March 13, 2018, the Volunteer's legal counsel requested clarification from the NYSDEC legal counsel on the applicability of the unpublished air emission guidance to remedial systems. Submittal of a final design of the SVE system is on hold pending an agreement on the matter.

Installation of the SSDS continued during March and was completed on April 2, 2018. Installation of the SSDS included trenching through one of the vacant units to install piping for the SSDS and generating approximately 20 drums of soil. Samples of the excavated soils were collected and analyzed for VOCs for waste characterization purposes.

Sampling and Test Results:
The waste characterization soil samples were received in March and submitted to the NYSDEC on April 5, 2018 with a request for a "contained in" determination to dispose the soils as non-hazardous.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the March 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the March 2018 reporting period.

NEXT MONTH (April 2018):

Actions:
An "Operation and Maintenance Report" (O&M Report) for the SSDS will be prepared during April. It is anticipated that a revised SVE design report will be submitted once an agreement is reached. Installation of the SVE system will begin after the SVE system design has been approved.

Pending receipt of the "contained in" determination, the waste soil generated during the installation of the SSDS will be transported and disposed off-site.

Sampling and Test Results:
No samples are anticipated during the April 2018 reporting period.

MONTHLY PROGRESS REPORT
March 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

Work Plans, Reports, and Deliverables:
It is anticipated that the SSDS O&M Report will be submitted in April. A revised SVE design report will be submitted pending an agreement is reached on the SVE exhaust treatment requirements.

Citizen Participation Plan Activities:
Copies of the final remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were made or proposed in March 2018.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in March 2018.

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MONTHLY PROGRESS REPORT
April 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (April 2018):

Actions:
Representatives from the NYSDEC and the Volunteer met on March 9, 2018 to discuss the requirements for carbon treatment of the exhaust from the soil vapor extraction (SVE). On March 13, 2018, the Volunteer's legal counsel requested clarification from the NYSDEC legal counsel on the applicability of the unpublished air emission guidance to remedial systems. Submittal of a final design of the SVE system is on hold pending an agreement on the matter.

Installation of the SSDS was completed on April 2, 2018. Installation of the SSDS included trenching through one of the vacant units to install piping for the SSDS and generating approximately 20 drums of soil. Soil generated during the installation of the SSDS were picked-up transported off-site by MC Environmental Services (MCES) to the ESMI-New York facility in South Glens Falls for disposal.

Representatives for the Volunteer attended the BCP Certificate of Completion information meeting in Albany on April 24, 2018.

Sampling and Test Results:
No samples were collected during the April 2018 reporting period.

Work Plans, Reports, and Deliverables:
The Vapor Mitigation System SSD Installation and Operations and Maintenance Report to DEC for 350 Northern was prepared in April and submitted to the NYSDEC on May 2, 2018.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the April 2018 reporting period.

NEXT MONTH (May 2018):

Actions:
It is anticipated that a revised SVE design report will be submitted once an agreement is reached. Installation of the SVE system will begin after the SVE system design has been approved.

Sampling and Test Results:
No samples are anticipated during the May 2018 reporting period.

MONTHLY PROGRESS REPORT
April 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

Work Plans, Reports, and Deliverables:
A revised SVE design report will be submitted pending an agreement is reached on the SVE exhaust treatment requirements.

Citizen Participation Plan Activities:
Copies of the final remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
Final SVE design report and installation are on hold pending an agreement on the SVE exhaust treatment requirements.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in April 2018.

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MONTHLY PROGRESS REPORT
May 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (May 2018):

Actions:
Submittal of a final design of the soil vapor extraction (SVE) system is on hold pending an agreement on the system's exhaust requirements and the applicability of the unpublished air emission guidance to remedial systems.

Sampling and Test Results:
No samples were collected during the April 2018 reporting period.

Work Plans, Reports, and Deliverables:
The Vapor Mitigation System SSD Installation and Operations and Maintenance Report to DEC for 350 Northern was submitted to the NYSDEC on May 2, 2018.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the May 2018 reporting period.

NEXT MONTH (June 2018):

Actions:
It is anticipated that a revised SVE design report will be submitted once an agreement is reached. Installation of the SVE system will begin after the SVE system design has been approved.

Sampling and Test Results:
No samples are anticipated during the June 2018 reporting period.

Work Plans, Reports, and Deliverables:
A revised SVE design report will be submitted pending an agreement is reached on the SVE exhaust treatment requirements.

Citizen Participation Plan Activities:
Copies of the final remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
Final SVE design report and installation are on hold pending an agreement on the SVE exhaust treatment requirements.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in May 2018.

MONTHLY PROGRESS REPORT
June 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (June 2018):

Actions:
Operation of the sub-slab depressurization systems (SSDS) continued. Submittal of a final design of the soil vapor extraction (SVE) system was on hold pending an agreement on the system's exhaust requirements.

Sampling and Test Results:
No samples were collected during the June 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the June 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the June 2018 reporting period.

NEXT MONTH (July 2018):

Actions:
A revised SVE design report will be submitted with carbon treatment on the SVE exhaust by July 23, 2018. Installation of the SVE system will begin after the SVE system design has been approved.

Sampling and Test Results:
No samples are anticipated during the July 2018 reporting period.

Work Plans, Reports, and Deliverables:
A revised SVE design report will be submitted with carbon treatment on the SVE exhaust by July 23, 2018, as agreed with the NYSDEC.

Citizen Participation Plan Activities:
Copies of the final remedial design reports will be provided to the document repositories for public review.

***SCHEDULE* (percent complete, delays, corrective measures):**
Final SVE design report and installation were on hold pending an agreement on the SVE exhaust treatment requirements.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in June 2018.

MONTHLY PROGRESS REPORT
July 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (July 2018):

Actions:
A revised *Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation*, with treatment of the soil vapor extraction (SVE) system exhaust was submitted on July 23, 2018. Operation of the sub-slab depressurization systems (SSDS) continued.

Sampling and Test Results:
No samples were collected during the July 2018 reporting period.

Work Plans, Reports, and Deliverables:
A revised *Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation* was submitted on July 23, 2018.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the July 2018 reporting period.

NEXT MONTH (August 2018):

Actions:
The NYSDEC approved the *Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation* on August 7, 2018. Preparations for the installation of the SVE system will begin.

Sampling and Test Results:
No samples are anticipated during the August 2018 reporting period.

Work Plans, Reports, and Deliverables:
An *Excavation Work Plan* and *Soil Management Plan* for the trenching required for the SVE piping will be submitted in August 2018.

Citizen Participation Plan Activities:
Copies of the final remedial design report will be provided to the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
Final SVE design report and installation were on hold pending an agreement on the SVE exhaust treatment requirements. An agreement has been achieved and a revised design report has been submitted and approved.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in July 2018.

MONTHLY PROGRESS REPORT
August 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (August 2018):

Actions:
A revised *Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation*, with treatment of the soil vapor extraction (SVE) system exhaust was submitted on July 23, 2018 and approved by the NYSDEC on August 10, 2018. Preparations for the installation of the SVE system piping began. Operation of the sub-slab depressurization systems (SSDS) continued.

Sampling and Test Results:
No samples were collected during the August 2018 reporting period.

Work Plans, Reports, and Deliverables:
An *Excavation Work Plan* and *Soil Management Plan* for the trenching required for the SVE piping was prepared in August 2018 and will be submitted in September.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the August 2018 reporting period.

NEXT MONTH (September 2018):

Actions:
The NYSDEC approved the *Remedial Design Report for Soil Vapor Extraction and Vapor Mitigation* on August 7, 2018. Preparations for the installation of the SVE system will continue.

Sampling and Test Results:
No samples are anticipated during the September 2018 reporting period.

Work Plans, Reports, and Deliverables:
An *Excavation Work Plan* and *Soil Management Plan* for the trenching required for the SVE piping will be submitted on September 7, 2018.

Citizen Participation Plan Activities:
Copies of the final remedial design report will be provided to the document repositories.

***SCHEDULE* (percent complete, delays, corrective measures):**
Final SVE design report and installation were on hold pending an agreement on the SVE exhaust treatment requirements. An agreement has been achieved and a revised design report has been submitted and approved.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in August 2018.

MONTHLY PROGRESS REPORT
October 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (October 2018):

Actions:
Operation of the sub-slab depressurization system (SSDS) continued. Preparation for the installation of the piping for the soil vapor extraction (SVE) system was started, including requesting and obtaining a contained-in determination for the disposal of soil generated during the installation of the SVE piping.

Sampling and Test Results:
Sample results for the path of construction soil samples for the installation of the SVE system piping were submitted to the NYSDEC during the October 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the October 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the October 2018 reporting period.

NEXT MONTH (November 2018):

Actions:
Operation of the SSDS will continue. Installation of the SVE piping will be completed. Procurement of SVE system equipment and shed will continue.

Sampling and Test Results:
No samples are anticipated during the November 2018 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the November 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the November 2018 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in October 2018.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in October 2018.

MONTHLY PROGRESS REPORT
November 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (November 2018):

Actions:
Operation of the sub-slab depressurization system (SSDS) continued. Installation of the piping for the soil vapor extraction (SVE) system was completed. A shipping container that will be used for as the SVE system shed was placed on site. Approximately 21 tons of soil generated during the installation of the piping was transported to ESMI in Moreau, NY for disposal.

Sampling and Test Results:
No samples were collected during the November 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the November 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the November 2018 reporting period.

NEXT MONTH (December 2018):

Actions:
Operation of the SSDS will continue. Installation of the SVE system will continue. The parking lot near the SVE system shed will be paved, the shed will be insulated and heated, and electric service will be installed. It is anticipated that installation of the SVE system will be completed during the January 2019 reporting period.

Sampling and Test Results:
No samples are anticipated during the December 2018 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the December 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the December 2018 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in November 2018.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in November 2018.

MONTHLY PROGRESS REPORT
December 2018
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (December 2018):

Actions:
Operation of the sub-slab depressurization system (SSDS) continued. Installation of the piping for the soil vapor extraction (SVE) system was completed in late November. The parking lot was paved and a shipping container that will be used for as the SVE system shed is on site. Electrical and heating equipment for the shed has been ordered.

Sampling and Test Results:
No samples were collected during the December 2018 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the December 2018 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the December 2018 reporting period.

NEXT MONTH (January 2019):

Actions:
Operation of the SSDS will continue. Installation of the SVE system will continue. The parking lot near the SVE system shed will be paved, the shed will be insulated and heated, and electric service will be installed. It is anticipated that installation of the SVE system will continue during the January 2019 reporting period.

Sampling and Test Results:
No samples are anticipated during the January 2019 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the January 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the January 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in December 2018.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in December 2018.

MONTHLY PROGRESS REPORT
March 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (March 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) continued. Installation of the electrical and heating equipment for the soil vapor extraction (SVE) system shed was completed in March and the SVE equipment was delivered to the site

Sampling and Test Results:
No samples were collected during the March 2019 reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the March 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the March 2019 reporting period.

NEXT MONTH (April 2019):

Actions:
Operation of the SSDS will continue. Installation of the SVE system will be completed. It is anticipated that the SVE system will be ready for permanent operation during the week of April 15th.

Sampling and Test Results:
No samples are anticipated during the April 2019 reporting period.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the April 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the April 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in March 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in March 2019.

MONTHLY PROGRESS REPORT
April 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (April 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) continued. Installation of the soil vapor extraction (SVE) system was completed in April and the system was activated.

Sampling and Test Results:
One air sample was collected from the SVE system post treatment effluent on April 26, 2019. The laboratory report is attached to this progress report.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the April 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the April 2019 reporting period.

NEXT MONTH (May 2019):

Actions:
Operation of the SSDS and SVE system will continue. An Emerging Contaminant Sampling and Analysis Work Plan will be submitted in May 2019 to comply with the NYSDEC's requirement. Representatives for the Volunteer will attend the BCP Certificate of Completion information meeting in Albany on May 22, 2019.

Sampling and Test Results:
Pending approval of the Emerging Contaminant Sampling and Analysis Work Plan, ground water samples will be collected for analysis of for 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS).

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the May 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the May 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in April 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in April 2019.

ANALYTICAL REPORT

Lab Number:	L1917459
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	05/02/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917459-01	350 STACK EFF	SOIL_VAPOR	ALBANY, NY	04/26/19 11:40	04/26/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 19, 2019. The canister certification results are provided as an addendum.

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: 05/02/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/30/19 19:41
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	0.226	0.200	--	0.467	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.92	1.00	--	4.56	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	1.18	0.500	--	3.48	1.47	--		1
cis-1,2-Dichloroethene	0.493	0.200	--	1.95	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.18	0.500	--	6.43	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	0.388	0.200	--	1.46	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	3.31	0.200	--	22.4	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1917459

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
Propylene	88		-		70-130	-		
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	87		-		70-130	-		
Freon-114	89		-		70-130	-		
Vinyl chloride	78		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	76		-		70-130	-		
Chloroethane	76		-		70-130	-		
Ethanol	92		-		40-160	-		
Vinyl bromide	77		-		70-130	-		
Acetone	76		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	83		-		40-160	-		
1,1-Dichloroethene	84		-		70-130	-		
Tertiary butyl Alcohol	74		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	81		-		70-130	-		
Freon-113	82		-		70-130	-		
trans-1,2-Dichloroethene	74		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Vinyl acetate	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
2-Butanone	103		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
Ethyl Acetate	91		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	94		-		70-130	-		
1,1,1-Trichloroethane	117		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	**133**	Q	-		70-130	-		
Cyclohexane	94		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	96		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	118		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	110		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	91		-		70-130	-		
2-Hexanone	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1917459

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
Dibromochloromethane	116		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	97		-		70-130	-		
Bromoform	120		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	100		-		70-130	-		
4-Ethyltoluene	98		-		70-130	-		
1,3,5-Trimethylbenzene	96		-		70-130	-		
1,2,4-Trimethylbenzene	100		-		70-130	-		
Benzyl chloride	**134**	Q	-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Hexachlorobutadiene	93		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	0.226	0.229	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	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	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	1.92	1.93	ppbV	1		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
2-Butanone	1.18	1.18	ppbV	0		25
cis-1,2-Dichloroethene	0.493	0.488	ppbV	1		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	2.18	2.09	ppbV	4		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	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
Trichloroethene	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
Toluene	0.388	0.351	ppbV	10		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	3.31	3.35	ppbV	1		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
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

Project Name: 350 NORTHERN BLVD

Lab Number: L1917459

Project Number:

Report Date: 05/02/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1917459-01	350 STACK EFF	544	2.7L Can	04/19/19	290168	L1915401-02	Pass	-29.7	-10.0	-	-	-	-

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

Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/17/19 21:54
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/19 21:52
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917459-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 4/27/19

ALPHA Job #: L1917459

Client Information

Client: ALPINE ENV. SERVICES
Address: 438 New Karner Rd
ALBANY NY 12205
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN Mark Schnitzer
AND Accts Rec.

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
917459-01	350 Stack Eff	4/26	11:39	11:40	-30	-10	SG	KB	2.7L	544	—	X					

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Jim Corley AAL	4/26/19 1330	Jim Corley AAL	4/26/19 1330
	4/26/19 1335		04/26/19 1335
	04/27/19 0000		4/27/19 0610

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

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

MONTHLY PROGRESS REPORT
May 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (May 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued. Representatives for the Volunteer attended the BCP Certificate of Completion information meeting in Albany on May 22, 2019. Ground water samples were collected for analysis of for the emergent contaminants 1,4-Dioxane and Per- and Polyfluoroalkyl Substances (PFAS) on May 23, 2019.

Sampling and Test Results:
The results for the ground water samples analyzed for emergent contaminants were not received during the May reporting period. Samples were collected from the SVE system post treatment effluent during the May reporting period. The SVE system samples will be submitted separately by Alpine to the NYSDEC.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the May 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the May 2019 reporting period.

NEXT MONTH (June 2019):

Actions:
Operation of the SSDS and SVE system will continue.

Sampling and Test Results:
The analytical results for the ground water samples collected for analysis of for 1,4- PFAS are anticipated to be received during the June 2019 reporting period. The results will be submitted to the NYSDEC, once the results are received and validated.

Work Plans, Reports, and Deliverables:
No Work Plans, Reports, or Deliverables are anticipated to be submitted during the June 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the June 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in May 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in May 2019.

MONTHLY PROGRESS REPORT
June 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (June 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued.

Sampling and Test Results:
The analytical results were received and validated for the ground water samples were collected for analysis of for the emergent contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS). The results were submitted on July 12, 2019 to the NYSDEC.

Samples were collected from the SVE system post treatment effluent during the June reporting period. The results of the SVE system pre- and post-treatment samples collected since system start up on April 18 through June 7, 2019 were submitted by Alpine to the NYSDEC on July 1, 2019.

Work Plans, Reports, and Deliverables:
No work plans, reports, or other deliverables were submitted during the June 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the June 2019 reporting period.

NEXT MONTH (July 2019):

Actions:
Operation of the SSDS and SVE system will continue. Preparation of the draft Site Management Plan will continue.

Sampling and Test Results:
The analytical results for the ground water samples collected for analysis of for 1,4- PFAS are anticipated to be received during the July 2019 reporting period. The results will be submitted to the NYSDEC, once the results are received and validated.

Work Plans, Reports, and Deliverables:
The Environmental Easement Package will be submitted during the July 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the July 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in June 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in June 2019.

MONTHLY PROGRESS REPORT
July 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (July 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued. The SVE system was shut down for repairs between July 15 to July 22.

Preparation of the draft Site Management Plan (SMP) continued. The project attorney continued preparing the Environmental Easement (EE) Package.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent during the July reporting period. The results of the SVE system influent and post-treatment samples collected since system start up on April 18 through June 30, 2019 were submitted by Alpine to the NYSDEC on July 10, 2019. The results for the May 2019 the emergent contaminants 1,4-dioxane and PFAS in ground water were submitted to the NYSDEC on July 12, 2019.

Work Plans, Reports, and Deliverables:
Alpine submitted *the Soil Vapor Extraction System Operation Quarterly Report Period Ending June 30, 2019* on July 19, 2019.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the July 2019 reporting period.

NEXT MONTH (August 2019):

Actions:
Operation of the SSDS and SVE system will continue. Preparation of the draft EE and SMP will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the August reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report.

Work Plans, Reports, and Deliverables:
The Environmental Easement Package will be submitted during the August 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the August 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in July 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in July 2019.

MONTHLY PROGRESS REPORT
August 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (August 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued. Preparation of the draft Site Management Plan (SMP) continued. The project attorney continued preparing the Environmental Easement (EE) Package.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent during the August reporting period.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the August 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the August 2019 reporting period.

NEXT MONTH (September 2019):

Actions:
Operation of the SSDS and SVE system will continue. The draft EE and SMP will be submitted. Preparation of the Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the September reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending September 30th.

Work Plans, Reports, and Deliverables:
The Environmental Easement Package will be submitted during the September 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the September 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in August 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in August 2019.

MONTHLY PROGRESS REPORT
September 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (September 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. Preparation of the draft Site Management Plan (SMP) continued. The project attorney submitted the Environmental Easement (EE) Package.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent on September 27, 2019. Alpine submitted a summary of the SVE inspection data through September 4th.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the August 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the August 2019 reporting period.

NEXT MONTH (October 2019):

Actions:
Operation of the SSDS and SVE system will continue. The draft SMP will be submitted. Preparation of the Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the September reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending September 30th.

Work Plans, Reports, and Deliverables:
The draft Site Management Plan will be submitted during the October 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the October 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in September 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in September 2019.

MONTHLY PROGRESS REPORT
October 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (October 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. Preparation of the draft Site Management Plan (SMP) continued.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent on October 28, 2019. Alpine submitted the 3rd Quarter 2019 SVE Monitoring Report on October 6th.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the October 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the October 2019 reporting period.

NEXT MONTH (November 2019):

Actions:
Operation of the SSDS and SVE system will continue. The draft SMP will be submitted. Preparation of the Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the November reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending December 30th.

Work Plans, Reports, and Deliverables:
The draft Site Management Plan will be submitted during the November 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the November 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in October 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in October 2019.

MONTHLY PROGRESS REPORT
November 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (November 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. Preparation of the draft Site Management Plan (SMP) continued.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent on November 29, 2019.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the November 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the November 2019 reporting period.

NEXT MONTH (December 2019):

Actions:
Operation of the SSDS and SVE system will continue. The draft SMP will be submitted. Preparation of the Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the December reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending December 30th.

Work Plans, Reports, and Deliverables:
The draft Site Management Plan will be submitted during the December 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the December 2019 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in November 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in November 2019.

MONTHLY PROGRESS REPORT
December 2019
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (December 2019):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. Preparation of the draft Site Management Plan (SMP) continued.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent on December.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the December 2019 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the December 2019 reporting period.

NEXT MONTH (January 2020):

Actions:
Operation of the SSDS and SVE system will continue. Preparation of the draft SMP and draft Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (monthly) and post-treatment effluent (bi-monthly) during the December reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending December 30th.

Work Plans, Reports, and Deliverables:
The SVE System Quarterly Monitoring Report will be submitted during the January 2020 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the January 2020 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in December 2019.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in December 2019.

MONTHLY PROGRESS REPORT
January 2020
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (January 2020):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. Preparation of the draft Site Management Plan (SMP) continued.

Sampling and Test Results:
Samples were collected from the SVE system influent and post-treatment effluent in January. The results of samples collected in October, November, and December 2019 were submitted in the *Soil Vapor Extraction System Operation Quarterly Report – Period Ending December 31,* 2019.

Work Plans, Reports, and Deliverables:
The *Soil Vapor Extraction System Operation Quarterly Report – Period Ending December 31,* 2019 was submitted to the NYSDEC on January 31, 2020.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the January 2020 reporting period.

NEXT MONTH (February 2020):

Actions:
Operation of the SSDS and SVE system will continue. Preparation of the draft SMP and draft Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (quarterly) and post-treatment effluent (monthly) during the February reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending March 31st.

Work Plans, Reports, and Deliverables:
A request to remove the carbon filters on the SVE System and to reduce the frequency of laboratory sample monitoring of the influent and effluent will be submitted in February 2020.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the February 2020 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in January 2020.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in January 2020.

MONTHLY PROGRESS REPORT
February 2020
Former Loudon and Kem Cleaners
Brownfield Cleanup Program Site # C401060

This monthly progress report is submitted in partial fulfillment of the Brownfield Cleanup Agreement Index #C401060-08-16.

PREVIOUS MONTH (February 2020):

Actions:
Operation of the sub-slab depressurization system (SSDS) the soil vapor extraction (SVE) system continued, including bi-weekly inspection of the SVE system. The NYSDEC approved the removal of the carbon filter on the SVE system effluent based on the sampling results of the pre-treatment effluent discharge that show the mass discharge rate of chlorinated solvents was calculated to be approximately 0.01 lbs/hr when the system is operating at the full design flow emission rate. Preparation of the draft Site Management Plan (SMP) continued.

Sampling and Test Results:
Samples were collected from the SVE system post-treatment effluent in February. The results of samples collected in will be submitted in the next *Soil Vapor Extraction System Operation Quarterly Report – Period Ending March 31,* 2020.

Work Plans, Reports, and Deliverables:
No work plans, reports, or deliverables were submitted during the February 2020 reporting period.

Citizen Participation Plan Activities:
No citizen participation plan activities were completed during the February 2020 reporting period.

NEXT MONTH (March 2020):

Actions:
Operation of the SSDS and SVE system will continue. The carbon filters will be removed from the system and disposed during an upcoming bi-monthly inspection. Preparation of the draft SMP and draft Final Engineering Report (FER) will continue.

Sampling and Test Results:
Samples will be collected from the SVE system influent (quarterly) and post-treatment effluent (monthly) during the March reporting period. The results will be submitted to the NYSDEC in the next quarterly operation report for the period ending March 31st.

Work Plans, Reports, and Deliverables:
The draft *Site Management Plan* will be submitted in March 2020.

Citizen Participation Plan Activities:
No citizen participation plan activities are planned during the March 2020 reporting period.

***SCHEDULE* (percent complete, delays, corrective measures):**
No changes to the project schedule were proposed in March 2020.

WORK PLAN MODIFICATIONS:
There were no work plan modifications proposed in March 2020.

Appendix F: Soil/Waste Characterization & Disposal

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

August 4, 2017

Mr. Henry Wilkie
NYS Dept. of Environmental Conservation
Division of Solid and Hazardous Waste
625 Broadway
Albany, NY 12233-7016

Re: Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Wilkie:

The purpose if this letter is to request a "Contained-In" determination that drill cuttings and soils generated at the Former Loudon and Kem Cleaners BCP (NYSDEC Site ID #C401060) Site do not require disposal as a hazardous waste.

Site Background

The Former Loudon and Kem Cleaners site is located in an urban area in the northern section of the City of Albany, NY. The site is northwest of Northern Boulevard, northeast of Albany-Shaker Road, east of Old Hickory Road, and southwest of Loudonville Road (Route 9). A site location map is attached as Figure 1. The former Kem and Loudon Cleaners were located on the southwest "L" of the plaza (Figure 2).

Based on previous investigations conducted by others to date, the primary contaminants of concern (COC) for the site include the following chlorinated solvents: tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (cis-DCE), and vinyl chloride (VC). Only a few site-related COCs were detected above the protection of groundwater soil cleanup objectives (PGWSCOs)/unrestricted use SCOs (UUSCOs) as follows: PCE at 11.9 milligrams per kilogram (mg/kg) or parts per million (ppm) vs. PGWSCO of 1.3 ppm, cis-DCE at 0.44 ppm vs. PGWSCO of 0.25 ppm, and VC at 0.056 ppm vs. PGWSCO of 0.02 ppm. No metals, SVOCs, PCB/pesticides, or other VOCs were found above the commercial SCOs for soil.

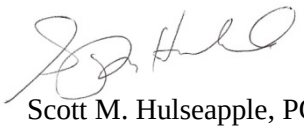
Description of Current Activities

The current site owner (DF Acquisitions, LLC) has entered into a Brownfield Cleanup Agreement with the NYSDEC as a Volunteer to implement the on-site components of the remedy described in the 2015 Record of Decision (ROD). The on-site components of the remedy include the installation of a soil vapor extraction system to remove VOCs from the subsurface soils, as well as to prevent vapors from migrating into the southern wing of the on-site building.

Three soil vapor extraction wells (SVE-1, SVE-2, and SVE-3 on Figure 2) were installed on July 17-18, 2017. Six drums of soil cuttings were generated during the installation the SVE wells. Samples from the depth intervals at wells SVE-1 and SVE-2 that exhibited the highest field measured "headspace" photo-ionization detector readings (8.6 ppm and 23.9 ppm, respectively) were submitted for laboratory analysis of VOCs at a NYSDOH ELAP approved laboratory. The laboratory report is included with this letter. PCE (0.04 ppm at SVE-1 and 30 ppm at SVE-3) and cis-DCE (0.0061 ppm at SVE-1 and 0.0092 ppm at SVE-3) were the only compounds detected in the samples. These concentrations are well below the NYSDEC's unrestricted use SCO. Pending the "contained-in" determination, the soil cuttings will be transported By MC Environmental Services (MCES) of South Glens Falls, NY to the Veolia Environmental Services, LLC transfer facility in Schenectady for disposal at one of Veolia's treatment/disposal facilities.

Please do not hesitate to contact me if you have any questions. Thank you.

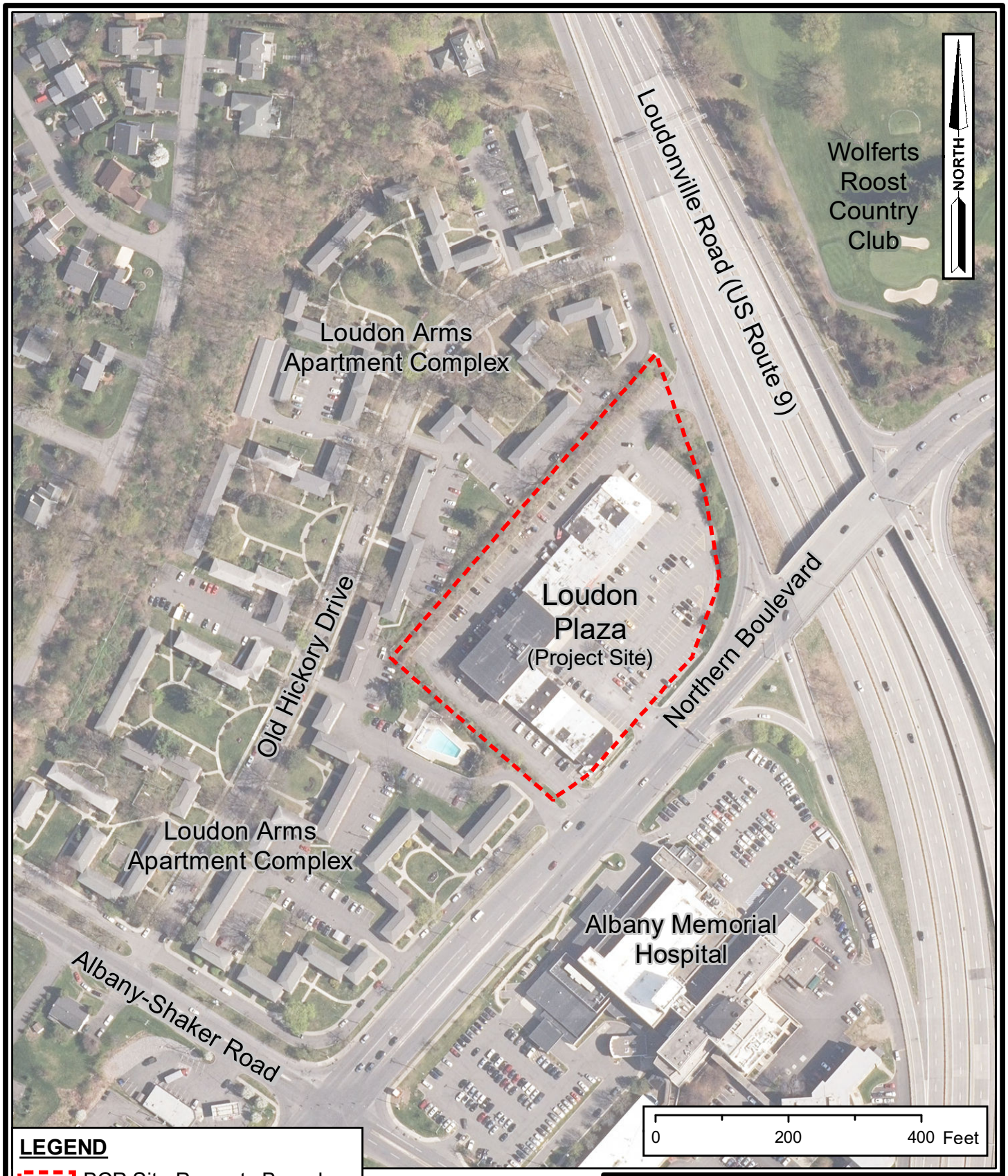
Sincerely,
Alpha Geoscience



Scott M. Hulseapple, PG, CPG
Hydrogeologist

Attachments
Cc: K. Forster – NYSDEC
F. Lanni – DF Acquisitions
J. Privitera – MLTW, P.C.

SMH/bms
Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\2_0 Correspondence\Contained In Request 2017-08-04.docx



LEGEND

BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

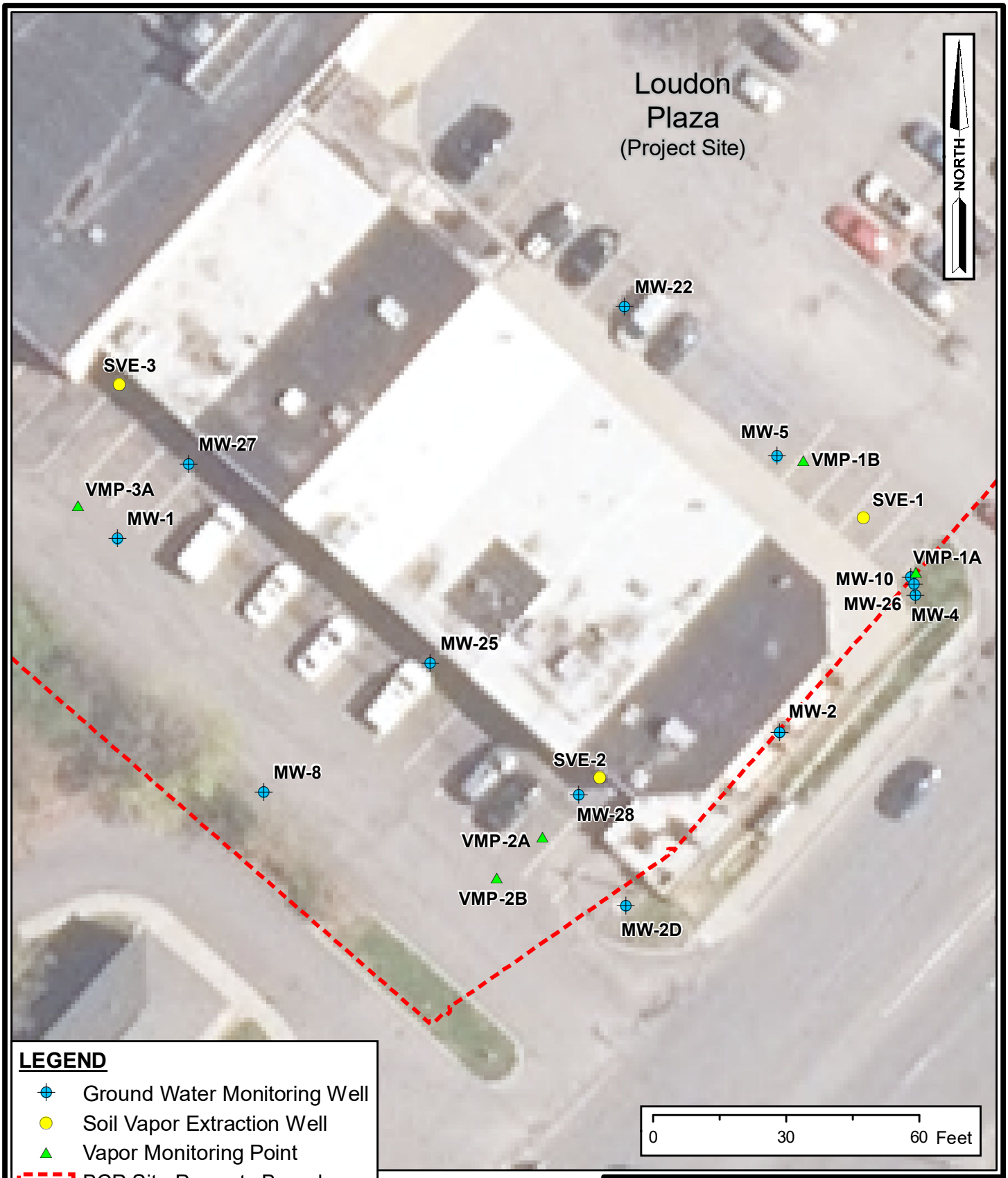
ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 1
Site Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Ortho_Map.mxd
Date Saved: 8/4/2017 10:01:25 AM



LEGEND

- Ground Water Monitoring Well
- Soil Vapor Extraction Well
- Vapor Monitoring Point
- BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE
Proj. No. 16117

FIGURE 2
Well Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Map.mxd
Date Saved: 8/4/2017 9:59:39 AM

August 01, 2017 Service Request No:R1706692

Mr. Scott Hulseapple
Alpha Geoscience -Clifton Park
679 Plank Road
Clifton Park, NY 12065

Laboratory Results for: Loudon Plaza

Dear Mr.Hulseapple,

Enclosed are the results of the sample(s) submitted to our laboratory July 21, 2017
For your reference, these analyses have been assigned our service request number **R1706692.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7478. You may also contact me via email at Ellen.Smith@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Ellen Smith
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Alpha Geoscience -Clifton Park
Project: Loudon Plaza
Sample Matrix: Soil

Service Request:R1706692
Date Received:7/21/17

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Two soil samples were received for analysis at ALS Environmental on 07/21/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

General Chemistry Analyses:

No significant anomalies were noted with this analysis.

Approved by _____ Date 8/1/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: SVE-1 (8-10')	Lab ID: R1706692-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Total Solids	81.8				Percent	ALS SOP
Tetrachloroethene (PCE)	40		1.1	6.1	ug/Kg	8260C
cis-1,2-Dichloroethene	6.1		1.2	6.1	ug/Kg	8260C

CLIENT ID: SVE-3 (10-12')	Lab ID: R1706692-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Total Solids	81.9				Percent	ALS SOP
Tetrachloroethene (PCE)	30		1.1	6.1	ug/Kg	8260C
cis-1,2-Dichloroethene	9.2		1.2	6.1	ug/Kg	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Alpha Geoscience -Clifton Park **Service Request:**R1706692
Project: Loudon Plaza

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1706692-001	SVE-1 (8-10')	7/17/2017	1000
R1706692-002	SVE-3 (10-12')	7/18/2017	1100

Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza		

Sample Name:	SVE-1 (8-10')	**Date Collected:**	07/17/17
Lab Code:	R1706692-001	**Date Received:**	07/21/17
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KWONG

Sample Name:	SVE-3 (10-12')	**Date Collected:**	07/18/17
Lab Code:	R1706692-002	**Date Received:**	07/21/17
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KWONG

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/17/17 10:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-1 (8-10')	**Units:**	ug/Kg
Lab Code:	R1706692-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.1 U	6.1	1	07/28/17 17:11	
1,1,2,2-Tetrachloroethane	6.1 U	6.1	1	07/28/17 17:11	
1,1,2-Trichloroethane	6.1 U	6.1	1	07/28/17 17:11	
1,1-Dichloroethane (1,1-DCA)	6.1 U	6.1	1	07/28/17 17:11	
1,1-Dichloroethene (1,1-DCE)	6.1 U	6.1	1	07/28/17 17:11	
1,2-Dichloroethane	6.1 U	6.1	1	07/28/17 17:11	
1,2-Dichloropropane	6.1 U	6.1	1	07/28/17 17:11	
2-Butanone (MEK)	6.1 U	6.1	1	07/28/17 17:11	
2-Hexanone	6.1 U	6.1	1	07/28/17 17:11	
4-Methyl-2-pentanone	6.1 U	6.1	1	07/28/17 17:11	
Acetone	6.1 U	6.1	1	07/28/17 17:11	
Benzene	6.1 U	6.1	1	07/28/17 17:11	
Bromodichloromethane	6.1 U	6.1	1	07/28/17 17:11	
Bromoform	6.1 U	6.1	1	07/28/17 17:11	
Bromomethane	6.1 U	6.1	1	07/28/17 17:11	
Carbon Disulfide	6.1 U	6.1	1	07/28/17 17:11	
Carbon Tetrachloride	6.1 U	6.1	1	07/28/17 17:11	
Chlorobenzene	6.1 U	6.1	1	07/28/17 17:11	
Chloroethane	6.1 U	6.1	1	07/28/17 17:11	
Chloroform	6.1 U	6.1	1	07/28/17 17:11	
Chloromethane	6.1 U	6.1	1	07/28/17 17:11	
Dibromochloromethane	6.1 U	6.1	1	07/28/17 17:11	
Dichloromethane	6.1 U	6.1	1	07/28/17 17:11	
Ethylbenzene	6.1 U	6.1	1	07/28/17 17:11	
Styrene	6.1 U	6.1	1	07/28/17 17:11	
Tetrachloroethene (PCE)	**40**	6.1	1	07/28/17 17:11	
Toluene	6.1 U	6.1	1	07/28/17 17:11	
Trichloroethene (TCE)	6.1 U	6.1	1	07/28/17 17:11	
Vinyl Chloride	6.1 U	6.1	1	07/28/17 17:11	
cis-1,2-Dichloroethene	**6.1**	6.1	1	07/28/17 17:11	
cis-1,3-Dichloropropene	6.1 U	6.1	1	07/28/17 17:11	
m,p-Xylenes	12 U	12	1	07/28/17 17:11	
o-Xylene	6.1 U	6.1	1	07/28/17 17:11	
trans-1,2-Dichloroethene	6.1 U	6.1	1	07/28/17 17:11	
trans-1,3-Dichloropropene	6.1 U	6.1	1	07/28/17 17:11	

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/17/17 10:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-1 (8-10')	**Units:**	ug/Kg
Lab Code:	R1706692-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	51 - 136	07/28/17 17:11	
Dibromofluoromethane	99	63 - 138	07/28/17 17:11	
Toluene-d8	104	66 - 138	07/28/17 17:11	

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/18/17 11:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-3 (10-12')	**Units:**	ug/Kg
Lab Code:	R1706692-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.1 U	6.1	1	07/28/17 17:35	
1,1,2,2-Tetrachloroethane	6.1 U	6.1	1	07/28/17 17:35	
1,1,2-Trichloroethane	6.1 U	6.1	1	07/28/17 17:35	
1,1-Dichloroethane (1,1-DCA)	6.1 U	6.1	1	07/28/17 17:35	
1,1-Dichloroethene (1,1-DCE)	6.1 U	6.1	1	07/28/17 17:35	
1,2-Dichloroethane	6.1 U	6.1	1	07/28/17 17:35	
1,2-Dichloropropane	6.1 U	6.1	1	07/28/17 17:35	
2-Butanone (MEK)	6.1 U	6.1	1	07/28/17 17:35	
2-Hexanone	6.1 U	6.1	1	07/28/17 17:35	
4-Methyl-2-pentanone	6.1 U	6.1	1	07/28/17 17:35	
Acetone	6.1 U	6.1	1	07/28/17 17:35	
Benzene	6.1 U	6.1	1	07/28/17 17:35	
Bromodichloromethane	6.1 U	6.1	1	07/28/17 17:35	
Bromoform	6.1 U	6.1	1	07/28/17 17:35	
Bromomethane	6.1 U	6.1	1	07/28/17 17:35	
Carbon Disulfide	6.1 U	6.1	1	07/28/17 17:35	
Carbon Tetrachloride	6.1 U	6.1	1	07/28/17 17:35	
Chlorobenzene	6.1 U	6.1	1	07/28/17 17:35	
Chloroethane	6.1 U	6.1	1	07/28/17 17:35	
Chloroform	6.1 U	6.1	1	07/28/17 17:35	
Chloromethane	6.1 U	6.1	1	07/28/17 17:35	
Dibromochloromethane	6.1 U	6.1	1	07/28/17 17:35	
Dichloromethane	6.1 U	6.1	1	07/28/17 17:35	
Ethylbenzene	6.1 U	6.1	1	07/28/17 17:35	
Styrene	6.1 U	6.1	1	07/28/17 17:35	
Tetrachloroethene (PCE)	**30**	6.1	1	07/28/17 17:35	
Toluene	6.1 U	6.1	1	07/28/17 17:35	
Trichloroethene (TCE)	6.1 U	6.1	1	07/28/17 17:35	
Vinyl Chloride	6.1 U	6.1	1	07/28/17 17:35	
cis-1,2-Dichloroethene	**9.2**	6.1	1	07/28/17 17:35	
cis-1,3-Dichloropropene	6.1 U	6.1	1	07/28/17 17:35	
m,p-Xylenes	12 U	12	1	07/28/17 17:35	
o-Xylene	6.1 U	6.1	1	07/28/17 17:35	
trans-1,2-Dichloroethene	6.1 U	6.1	1	07/28/17 17:35	
trans-1,3-Dichloropropene	6.1 U	6.1	1	07/28/17 17:35	

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/18/17 11:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-3 (10-12')	**Units:**	ug/Kg
Lab Code:	R1706692-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	51 - 136	07/28/17 17:35	
Dibromofluoromethane	96	63 - 138	07/28/17 17:35	
Toluene-d8	103	66 - 138	07/28/17 17:35	

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/17/17 10:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-1 (8-10')	**Basis:**	As Received
Lab Code:	R1706692-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**81.8**	Percent	-	1	07/27/17 10:48	

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	07/18/17 11:00
Sample Matrix:	Soil	**Date Received:**	07/21/17 08:50
Sample Name:	SVE-3 (10-12')	**Basis:**	As Received
Lab Code:	R1706692-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**81.9**	Percent	-	1	07/27/17 10:48	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

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Client: Alpha Geoscience -Clifton Park **Service Request:** R1706692
Project: Loudon Plaza
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Extraction Method: EPA 5030C

		4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
Sample Name	**Lab Code**	**51 - 136**	**63 - 138**	**66 - 138**
SVE-1 (8-10')	R1706692-001	96	99	104
SVE-3 (10-12')	R1706692-002	94	96	103
Lab Control Sample	RQ1707338-03	99	104	102
Method Blank	RQ1707338-04	99	100	104

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1707338-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	07/28/17 13:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	07/28/17 13:57	
1,1,2-Trichloroethane	5.0 U	5.0	1	07/28/17 13:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	07/28/17 13:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	07/28/17 13:57	
1,2-Dichloroethane	5.0 U	5.0	1	07/28/17 13:57	
1,2-Dichloropropane	5.0 U	5.0	1	07/28/17 13:57	
2-Butanone (MEK)	5.0 U	5.0	1	07/28/17 13:57	
2-Hexanone	5.0 U	5.0	1	07/28/17 13:57	
4-Methyl-2-pentanone	5.0 U	5.0	1	07/28/17 13:57	
Acetone	5.0 U	5.0	1	07/28/17 13:57	
Benzene	5.0 U	5.0	1	07/28/17 13:57	
Bromodichloromethane	5.0 U	5.0	1	07/28/17 13:57	
Bromoform	5.0 U	5.0	1	07/28/17 13:57	
Bromomethane	5.0 U	5.0	1	07/28/17 13:57	
Carbon Disulfide	5.0 U	5.0	1	07/28/17 13:57	
Carbon Tetrachloride	5.0 U	5.0	1	07/28/17 13:57	
Chlorobenzene	5.0 U	5.0	1	07/28/17 13:57	
Chloroethane	5.0 U	5.0	1	07/28/17 13:57	
Chloroform	5.0 U	5.0	1	07/28/17 13:57	
Chloromethane	5.0 U	5.0	1	07/28/17 13:57	
Dibromochloromethane	5.0 U	5.0	1	07/28/17 13:57	
Dichloromethane	5.0 U	5.0	1	07/28/17 13:57	
Ethylbenzene	5.0 U	5.0	1	07/28/17 13:57	
Styrene	5.0 U	5.0	1	07/28/17 13:57	
Tetrachloroethene (PCE)	5.0 U	5.0	1	07/28/17 13:57	
Toluene	5.0 U	5.0	1	07/28/17 13:57	
Trichloroethene (TCE)	5.0 U	5.0	1	07/28/17 13:57	
Vinyl Chloride	5.0 U	5.0	1	07/28/17 13:57	
cis-1,2-Dichloroethene	5.0 U	5.0	1	07/28/17 13:57	
cis-1,3-Dichloropropene	5.0 U	5.0	1	07/28/17 13:57	
m,p-Xylenes	10 U	10	1	07/28/17 13:57	
o-Xylene	5.0 U	5.0	1	07/28/17 13:57	
trans-1,2-Dichloroethene	5.0 U	5.0	1	07/28/17 13:57	
trans-1,3-Dichloropropene	5.0 U	5.0	1	07/28/17 13:57	

Analytical Report

Client:	Alpha Geoscience -Clifton Park	**Service Request:**	R1706692
Project:	Loudon Plaza	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1707338-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS, Unp

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	51 - 136	07/28/17 13:57	
Dibromofluoromethane	100	63 - 138	07/28/17 13:57	
Toluene-d8	104	66 - 138	07/28/17 13:57	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 12th Floor, Albany, NY 12233-7015
P: (518) 402-9625 I F: (518) 402-9627
www.dec.ny.gov

August 10, 2017

Mr. Scott M. Hulseapple, PG, CPG
Hydrogeologist
Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

Re: Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Hulseapple:

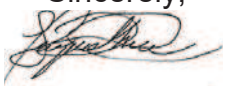
We have completed our review of the soil sampling data (Lab Sample ID: R1706692-001 and Lab ID: R1706692-002) submitted with your August 4, 2017 request for a “contained-in” determination for the referenced project.

Concentrations detected for individual VOCs were all significantly less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs were not detected above the detection limit.

Concentrations for tetrachloroethene (PCE) and cis-1,2-dichloroethene were below the soil "contained in" action level and the Land Disposal Restriction concentration. Therefore, six (6) 55-gallon drums containing soil cuttings, generated during the installation of the SVE wells as part of remedy at the referenced project, do not have to be managed as hazardous waste and can be transported off-site by MC Environmental Services (MCES) of South Glens Falls, NY to the Veolia Environmental Services, LLC transfer facility in Schenectady for disposal at one of Veolia’s treatment/disposal facilities.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at henry.wilkie@dec.ny.gov.

Sincerely,



Henry Wilkie
Environmental Engineer 1
Remedial Section B

ec: K. Forster, DEC

INVOICE

MCES
MC ENVIRONMENTAL SERVICES, INC.
526 Queensbury Ave. Queensbury, NY 12804
(518) 615-0349
FED. TAX ID. #14-1779702

DATE 9/8/2017
INVOICE # 45410

BILL TO:

ALPHA GEOSCIENCE
ATTN: SCOTT HULSAPPLE
679 PLANK ROAD
CLIFTON PARK, NY 12065

P.O. NUMBER	TERMS	PROJECT
QUOTE	NET 21	WASTE DISPOSAL

QUANTITY	DESCRIPTION	RATE	AMOUNT
	SERVICE DATE: 8/25/17 LOCATION: 350 NORTHERN BLVD, ALBANY, NY		
1	PICK-UP / TRANSPORT DRUMS TO 10-DAY FACILITY - PER QUOTE:	360.00	360.00
6	DISPOSAL OF DRUMMED WASTE - PER DRUM:	165.00	990.00
		Subtotal	$1,350.00
		Sales Tax (8.0%)	$0.00
		TOTAL	$1,350.00

WE APPRECIATE YOUR BUSINESS!

Terms: A finance charge of 1½% per month (18% annum) will be charged on all accounts past due. The customer is also responsible for any expenses incurred due to default of payment.

GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a	1	800-451-8984	082517 - 01

5. Generator's Name and Mailing Address

DF Acquisitions, LLC
27 Button Lane   Attn: Frank Lanni
Albany, NY 12011

Generator's Site Address (if different than mailing address)

300 Northern Blvd.
Albany, NY ,12204

Generator's Phone: 518-423-6000

6. Transporter 1 Company Name: MC Environmental Services, Inc.
U.S. EPA ID Number: NYR000021071

7. Transporter 2 Company Name: Veolia ES Technical Solutions.
U.S. EPA ID Number: NJD080631369.

8. Designated Facility Name and Site Address

Veolia ES Technical Solutions, LLC
4301 Infirmary Road
West Carrollton, OH 45449 USA

U.S. EPA ID Number: OHD093945293

Facility's Phone: 937-859-2207-169

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-RCRA Non DOT-Regulated None None	6	DM	3600	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

9.1 VOC impacted soils
WIP #: 154628
Approval #: SRRLFSOLID-NH

Emergency Contact: M. Craft - 800-451-8984

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/Offeror's Printed/Typed Name	Signature	Month	Day	Year
As agent for DF Kevin Phelps, Alpha Geoscience Acquisitions LLC	[signature]	08	25	17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	John Kamak	[signature]	8	25	17
Transporter 2	Archie Allington	[signature]	8	25	17

DESIGNATED FACILITY

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 Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

April 5, 2018

Mr. Henry Wilkie
NYS Dept. of Environmental Conservation
Division of Solid and Hazardous Waste
625 Broadway
Albany, NY 12233-7016

Re: Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Wilkie:

The purpose if this letter is to request a "Contained-In" determination that soils generated during the installation of the sub-slab depressurization system (SSDS) at the Former Loudon and Kem Cleaners BCP Site (NYSDEC Site ID #C401060) do not require disposal as a hazardous waste.

Site Background

The Former Loudon and Kem Cleaners site is located in an urban area in the northern section of the City of Albany, NY. The site is northwest of Northern Boulevard, northeast of Albany-Shaker Road, east of Old Hickory Road, and southwest of Loudonville Road (Route 9). A site location map is attached as Figure 1. The former Kem and Loudon Cleaners were located on the southwest "L" of the plaza (Figure 2).

Based on previous investigations conducted by others to date, the primary contaminants of concern (COC) for the site include the following chlorinated solvents: tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (cis-DCE), and vinyl chloride (VC). Only a few site-related COCs were detected above the protection of groundwater soil cleanup objectives (PGWSCOs)/unrestricted use SCOs (UUSCOs) as follows: PCE at 11.9 milligrams per kilogram (mg/kg) or parts per million (ppm) vs. PGWSCO of 1.3 ppm, cis-DCE at 0.44 ppm vs. PGWSCO of 0.25 ppm, and VC at 0.056 ppm vs. PGWSCO of 0.02 ppm. No metals, SVOCs, PCB/pesticides, or other VOCs were found above the commercial SCOs for soil.

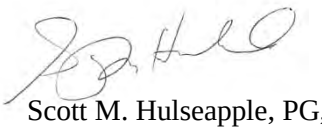
Description of Current Activities

The current site owner (DF Acquisitions, LLC) has entered into a Brownfield Cleanup Agreement with the NYSDEC as a Volunteer to implement the on-site components of the remedy described in the 2015 Record of Decision (ROD). The on-site components of the remedy include the installation of a SSDS to prevent vapors from migrating into the southern wing of the on-site building.

The SSDS was installed in March 2018. Part of the installation required installing piping in an approximately 60 feet long, 1 foot wide, and 1 to 2 feet deep trench through one of the vacant units. Twenty drums of soil were generated during the installation the sub-slab piping. The excavated soil from along the excavation were inspected and screened with a photo-ionization detector by an Alpha geologist who was on-site to observe the excavation. PID readings ranged from 0.0 to 0.7 ppm above background. Four representative samples were collected form the excavated material and were submitted for laboratory analysis of VOCs at a NYSDOH ELAP approved laboratory. The laboratory report is included with this letter. PCE was the only compound detected in the samples with concentrations ranging from 0.004 ppm to 0.012 ppm. These concentrations are well below the NYSDEC's unrestricted use SCO of 1.3 ppm. Pending the "contained-in" determination, the soil cuttings will be transported By MC Environmental Services (MCES) of South Glens Falls, NY to the ESMI of New York facility in Fort Edward for disposal.

Please do not hesitate to contact me if you have any questions. Thank you.

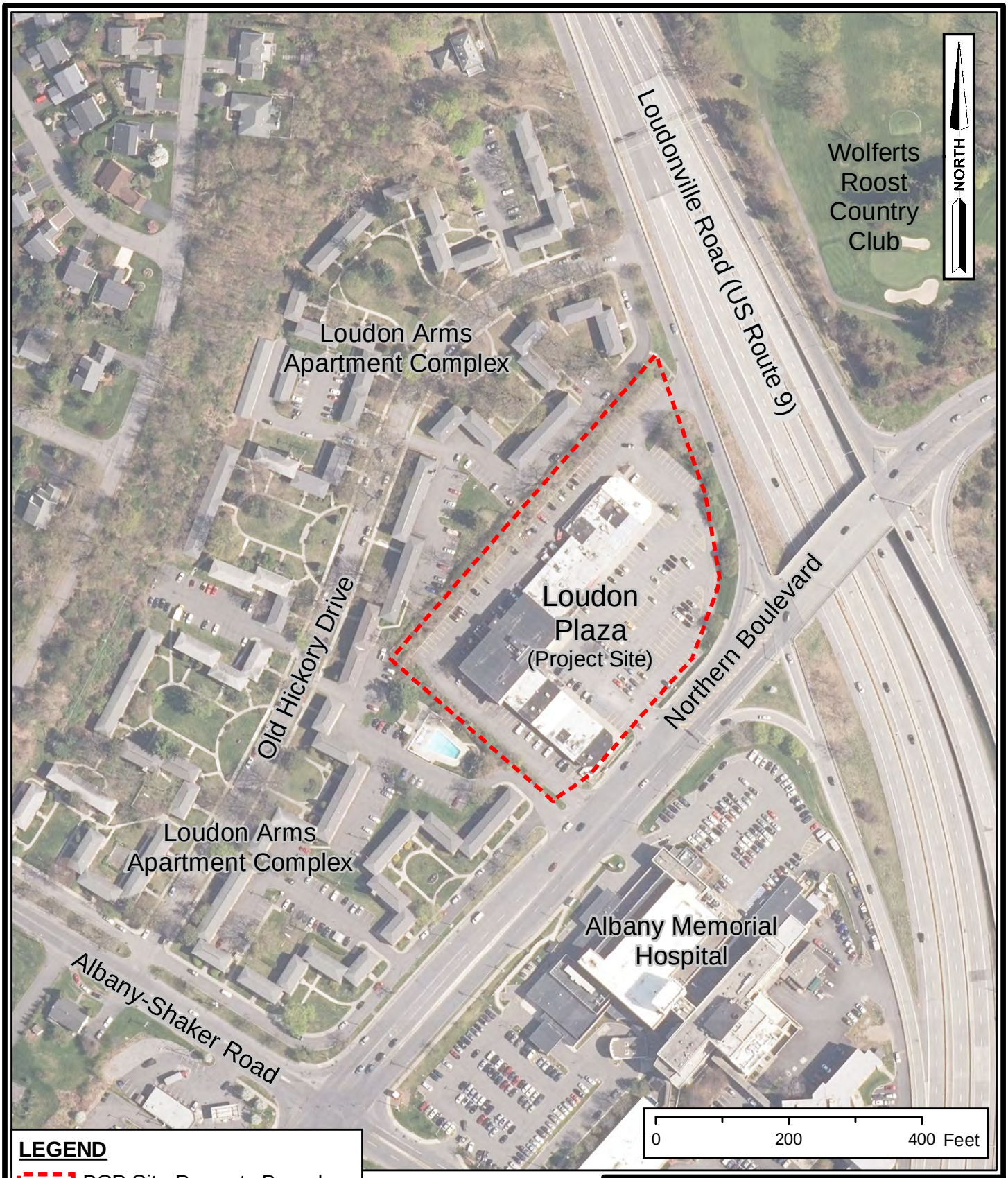
Sincerely,
Alpha Geoscience



Scott M. Hulseapple, PG, CPG
Hydrogeologist

Attachments
Cc: K. Forster – NYSDEC
F. Lanni – DF Acquisitions
J. Privitera – MLTW, P.C.

SMH/bms
Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\2_0 Correspondence\Contained In Request 2018-04-05.docx



LEGEND

BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

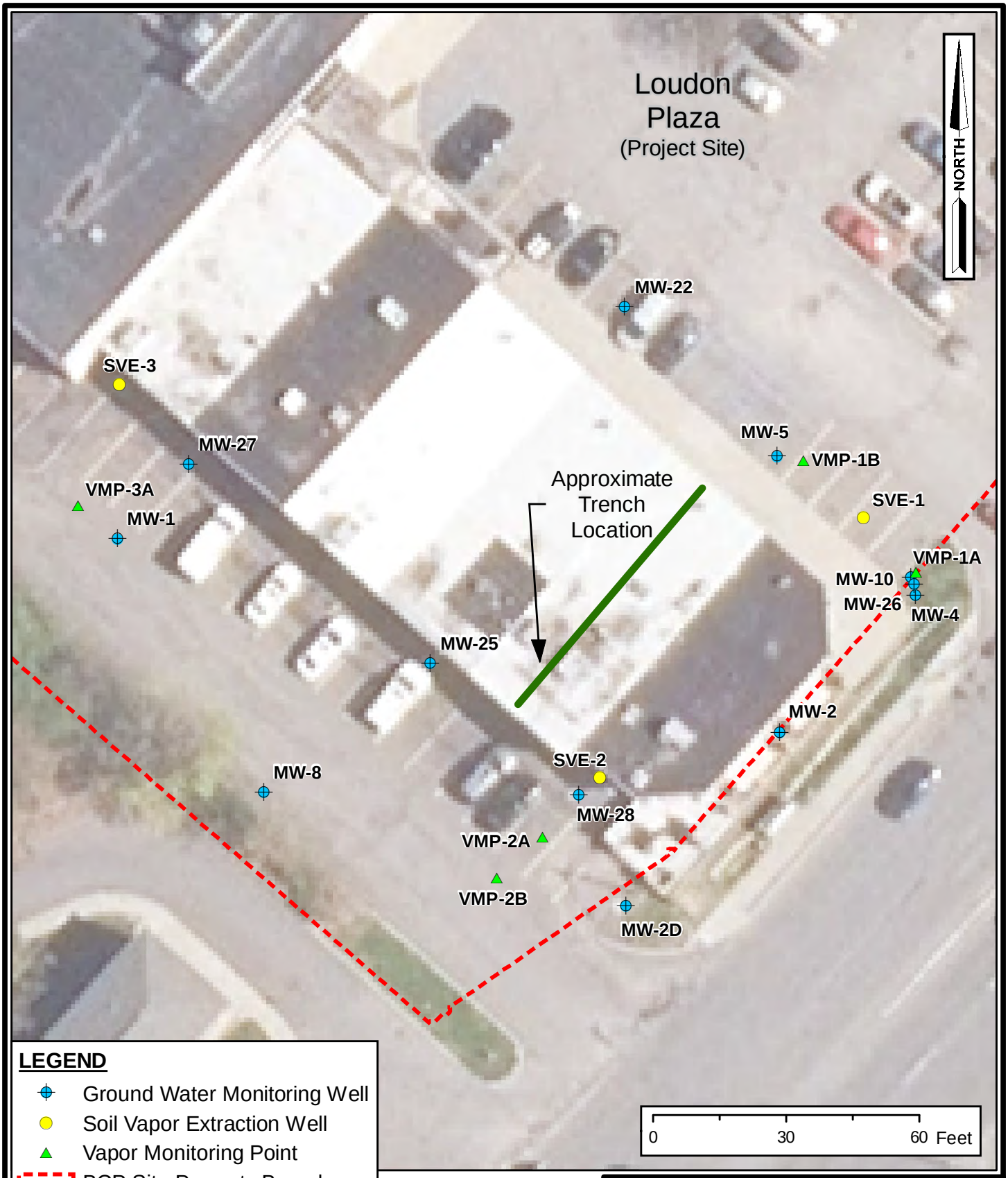
ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 1
Site Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Ortho_Map.mxd
Date Saved: 8/4/2017 10:01:25 AM



LEGEND

- Ground Water Monitoring Well
- Soil Vapor Extraction Well
- Vapor Monitoring Point
- BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 2
Well Location Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Map.mxd
Date Saved: 3/30/2018 3:16:34 PM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 27, 2018

Scott Hulseapple
Alpha Geological Services, Inc.
679 Plank Road
Clifton Park, NY 12065

Project Location: Loudon Plaza
Client Job Number:
Project Number: 16117
Laboratory Work Order Number: 18C0799

Enclosed are results of analyses for samples received by the laboratory on March 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Alpha Geological Services, Inc.
679 Plank Road
Clifton Park, NY 12065
ATTN: Scott Hulseapple

REPORT DATE: 3/27/2018

PURCHASE ORDER NUMBER: 16117

PROJECT NUMBER: 16117

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18C0799

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Loudon Plaza

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trench 60'-40'	18C0799-01	Soil		SM 2540G	
				SW-846 8260C	
Trench 40'-20'	18C0799-02	Soil		SM 2540G	
				SW-846 8260C	
Trench 20'-0'	18C0799-03	Soil		SM 2540G	
				SW-846 8260C	
Side Trench 2-15'	18C0799-04	Soil		SM 2540G	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15'], B199302-BLK1, B199302-BS1, B199302-BSD1

Methyl Acetate
18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15'], B199302-BLK1, B199302-BS1, B199302-BSD1

PR-15

According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

Analyte & Samples(s) Qualified:

18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15']

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Carbon Disulfide
18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15'], B199302-BLK1, B199302-BS1, B199302-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Bromomethane
18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15'], B199302-BLK1, B199302-BS1, B199302-BSD1

Dichlorodifluoromethane (Freon 12
18C0799-01[Trench 60'-40'], 18C0799-02[Trench 40'-20'], 18C0799-03[Trench 20'-0'], 18C0799-04[Side Trench 2-15'], B199302-BLK1, B199302-BS1, B199302-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)
B199302-BS1, B199302-BSD1

2-Hexanone (MBK)
B199302-BS1, B199302-BSD1

4-Methyl-2-pentanone (MIBK)
B199302-BS1, B199302-BSD1

Acrylonitrile
B199302-BS1, B199302-BSD1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 60'-40'

Sample ID: 18C0799-01 | Start Date/Time: 3/16/2018 2:22:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 8:20	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Chlorodibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 60'-40'

Sample ID: 18C0799-01 | Start Date/Time: 3/16/2018 2:22:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Methyl Acetate	ND	0.0023	mg/Kg dry	1	L-04	SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Methyl Cyclohexane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Tetrachloroethylene	0.012	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		3/22/18 8:20
Toluene-d8	99.4	70-130		3/22/18 8:20
4-Bromofluorobenzene	100	70-130		3/22/18 8:20

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 60'-40'

Sample ID: 18C0799-01 | Start Date/Time: 3/16/2018 2:22:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	3/22/18	3/23/18 7:36	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 40'-20'

Sample ID: 18C0799-02 | Start Date/Time: 3/16/2018 2:24:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 8:47	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Chlorodibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 40'-20'

Sample ID: 18C0799-02 | Start Date/Time: 3/16/2018 2:24:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Methyl Acetate	ND	0.0021	mg/Kg dry	1	L-04	SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Methyl Cyclohexane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Tetrachloroethylene	0.011	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 8:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		3/22/18 8:47
Toluene-d8	100	70-130		3/22/18 8:47
4-Bromofluorobenzene	103	70-130		3/22/18 8:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 40'-20'

Sample ID: 18C0799-02 | Start Date/Time: 3/16/2018 2:24:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:25:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	3/22/18	3/23/18 7:36	MRL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 20'-0'

Sample ID: 18C0799-03 | Start Date/Time: 3/16/2018 2:28:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:30:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 9:15	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Chlorodibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 20'-0'

Sample ID: 18C0799-03 | Start Date/Time: 3/16/2018 2:28:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:30:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Methyl Acetate	ND	0.0021	mg/Kg dry	1	L-04	SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Methyl Cyclohexane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Tetrachloroethylene	0.0070	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		3/22/18 9:15
Toluene-d8	97.6	70-130		3/22/18 9:15
4-Bromofluorobenzene	101	70-130		3/22/18 9:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Trench 20'-0'

Sample ID: 18C0799-03 | Start Date/Time: 3/16/2018 2:28:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:30:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	3/22/18	3/23/18 7:36	MRL

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Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Side Trench 2-15'

Sample ID: 18C0799-04 | Start Date/Time: 3/16/2018 2:33:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:35:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Acrylonitrile	ND	0.0066	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 9:42	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Carbon Disulfide	ND	0.0066	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Chlorodibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1	V-16	SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Side Trench 2-15'

Sample ID: 18C0799-04 | Start Date/Time: 3/16/2018 2:33:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:35:00PM

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Methyl Acetate	ND	0.0022	mg/Kg dry	1	L-04	SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Methyl Cyclohexane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Tetrachloroethylene	0.0040	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	3/22/18	3/22/18 9:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		3/22/18 9:42
Toluene-d8	99.2	70-130		3/22/18 9:42
4-Bromofluorobenzene	100	70-130		3/22/18 9:42

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Project Location: Loudon Plaza | Sample Description: | Work Order: 18C0799

Date Received: 3/20/2018

Field Sample #: Side Trench 2-15'

Sample ID: 18C0799-04 | Start Date/Time: 3/16/2018 2:33:00PM

Sample Matrix: Soil | Stop Date/Time: 3/16/2018 2:35:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	3/22/18	3/23/18 7:39	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18C0799-01 [Trench 60'-40']	B199307	03/22/18
18C0799-02 [Trench 40'-20']	B199307	03/22/18
18C0799-03 [Trench 20'-0']	B199307	03/22/18
18C0799-04 [Side Trench 2-15']	B199307	03/22/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0799-01 [Trench 60'-40']	B199302	4.78	10.0	03/22/18
18C0799-02 [Trench 40'-20']	B199302	5.08	10.0	03/22/18
18C0799-03 [Trench 20'-0']	B199302	5.04	10.0	03/22/18
18C0799-04 [Side Trench 2-15']	B199302	4.82	10.0	03/22/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B199302 - SW-846 5035										
Blank (B199302-BLK1)				Prepared & Analyzed: 03/22/18						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-16
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							L-04, V-05
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-16
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							L-04

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B199302 - SW-846 5035												
Blank (B199302-BLK1)				Prepared & Analyzed: 03/22/18								
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet									
Methyl Cyclohexane	ND	0.0020	mg/Kg wet									
Methylene Chloride	ND	0.020	mg/Kg wet									
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet									
Naphthalene	ND	0.0040	mg/Kg wet									
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Tetrahydrofuran	ND	0.010	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/Kg wet	0.0500		101		70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0506*		mg/Kg wet	0.0500		101		70-130				
LCS (B199302-BS1)				Prepared & Analyzed: 03/22/18								
Acetone	0.207	0.10	mg/Kg wet	0.200		104		70-160				†
Acrylonitrile	0.0233	0.0060	mg/Kg wet	0.0200		116		70-130			V-20	
tert-Amyl Methyl Ether (TAME)	0.0192	0.0010	mg/Kg wet	0.0200		96.0		70-130				
Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5		70-130				
Bromobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116		70-130				
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9		70-130				
Bromoform	0.0235	0.0020	mg/Kg wet	0.0200		117		70-130				
Bromomethane	0.00978	0.010	mg/Kg wet	0.0200		48.9		40-130			V-16	†
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120		70-160			V-20	†
tert-Butyl Alcohol (TBA)	0.249	0.040	mg/Kg wet	0.200		125		40-130				†
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
sec-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0190	0.0010	mg/Kg wet	0.0200		94.9		70-130				
Carbon Disulfide	0.0140	0.0060	mg/Kg wet	0.0200		**69.9**	*	70-130			L-04, V-05	
Carbon Tetrachloride	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130				
Chlorodibromomethane	0.0232	0.0010	mg/Kg wet	0.0200		116		70-130				
Chloroethane	0.0177	0.020	mg/Kg wet	0.0200		88.3		70-130				
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.7		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B199302 - SW-846 5035												
LCS (B199302-BS1)				Prepared & Analyzed: 03/22/18								
Chloromethane	0.0169	0.010	mg/Kg wet	0.0200		84.6		70-130				
2-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		99.9		70-130				
4-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0241	0.0020	mg/Kg wet	0.0200		120		70-130				
1,2-Dibromoethane (EDB)	0.0224	0.0010	mg/Kg wet	0.0200		112		70-130				
Dibromomethane	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130				
1,2-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
trans-1,4-Dichloro-2-butene	0.0249	0.0040	mg/Kg wet	0.0200		124		70-130				
Dichlorodifluoromethane (Freon 12)	0.0132	0.020	mg/Kg wet	0.0200		65.8		40-160			V-16	†
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-130				
1,2-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
1,1-Dichloroethylene	0.0185	0.0040	mg/Kg wet	0.0200		92.7		70-130				
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130				
1,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130				
1,3-Dichloropropane	0.0213	0.0010	mg/Kg wet	0.0200		107		70-130				
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,1-Dichloropropene	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130				
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130				
trans-1,3-Dichloropropene	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130				
Diethyl Ether	0.0201	0.020	mg/Kg wet	0.0200		100		70-130				
Diisopropyl Ether (DIPE)	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130				
1,4-Dioxane	0.191	0.10	mg/Kg wet	0.200		95.3		40-160				†
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130				
Hexachlorobutadiene	0.0223	0.0020	mg/Kg wet	0.0200		111		70-160				
2-Hexanone (MBK)	0.264	0.020	mg/Kg wet	0.200		132		70-160			V-20	†
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
Methyl Acetate	0.0127	0.0020	mg/Kg wet	0.0200		**63.5**	*	70-130			L-04	
Methyl tert-Butyl Ether (MTBE)	0.0214	0.0040	mg/Kg wet	0.0200		107		70-130				
Methyl Cyclohexane	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130				
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		99.1		40-160				†
4-Methyl-2-pentanone (MIBK)	0.254	0.020	mg/Kg wet	0.200		127		70-160			V-20	†
Naphthalene	0.0224	0.0040	mg/Kg wet	0.0200		112		40-130				†
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130				
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1,1,2-Tetrachloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
1,1,2,2-Tetrachloroethane	0.0245	0.0010	mg/Kg wet	0.0200		122		70-130				
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
Tetrahydrofuran	0.0227	0.010	mg/Kg wet	0.0200		113		70-130				
Toluene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130				
1,2,3-Trichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112		70-130				
1,2,4-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
1,3,5-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1,1-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130				
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130				
Trichlorofluoromethane (Freon 11)	0.0193	0.010	mg/Kg wet	0.0200		96.5		70-130				
1,2,3-Trichloropropane	0.0261	0.0020	mg/Kg wet	0.0200		130		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B199302 - SW-846 5035												
LCS (B199302-BS1)				Prepared & Analyzed: 03/22/18								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0173	0.010	mg/Kg wet	0.0200		86.4		70-130				
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130				
1,3,5-Trimethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130				
Vinyl Chloride	0.0182	0.010	mg/Kg wet	0.0200		90.8		40-130				†
m+p Xylene	0.0391	0.0040	mg/Kg wet	0.0400		97.8		70-130				
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0506*		mg/Kg wet	0.0500		101		70-130				
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.6		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0495*		mg/Kg wet	0.0500		99.0		70-130				
LCS Dup (B199302-BSD1)				Prepared & Analyzed: 03/22/18								
Acetone	0.193	0.10	mg/Kg wet	0.200		96.3		70-160	7.39	25		†
Acrylonitrile	0.0218	0.0060	mg/Kg wet	0.0200		109		70-130	6.66	25	V-20	
tert-Amyl Methyl Ether (TAME)	0.0178	0.0010	mg/Kg wet	0.0200		89.1		70-130	7.46	25		
Benzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6		70-130	4.26	25		
Bromobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130	11.4	25		
Bromochloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	8.80	25		
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-130	1.11	25		
Bromoform	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	13.5	25		
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		57.0		40-130	15.3	25	V-16	†
2-Butanone (MEK)	0.226	0.040	mg/Kg wet	0.200		113		70-160	5.61	25	V-20	†
tert-Butyl Alcohol (TBA)	0.220	0.040	mg/Kg wet	0.200		110		40-130	12.5	25		†
n-Butylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0		70-130	14.0	25		
sec-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9		70-130	12.6	25		
tert-Butylbenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.0		70-160	13.6	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0181	0.0010	mg/Kg wet	0.0200		90.3		70-130	4.97	25		
Carbon Disulfide	0.0138	0.0060	mg/Kg wet	0.0200		**69.0**	*	70-130	1.30	25	L-04, V-05	
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130	4.44	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130	5.66	25		
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130	8.99	25		
Chloroethane	0.0171	0.020	mg/Kg wet	0.0200		85.7		70-130	2.99	25		
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.4		70-130	2.43	25		
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		82.0		70-130	3.12	25		
2-Chlorotoluene	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130	10.5	25		
4-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130	9.65	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130	22.4	25		
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130	5.50	25		
Dibromomethane	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	4.61	25		
1,2-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	14.6	25		
1,3-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130	13.1	25		
1,4-Dichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130	12.6	25		
trans-1,4-Dichloro-2-butene	0.0206	0.0040	mg/Kg wet	0.0200		103		70-130	18.6	25		
Dichlorodifluoromethane (Freon 12)	0.0129	0.020	mg/Kg wet	0.0200		64.6		40-160	1.84	25	V-16	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130	4.24	25		
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7		70-130	4.99	25		
1,1-Dichloroethylene	0.0175	0.0040	mg/Kg wet	0.0200		87.3		70-130	6.00	25		
cis-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	5.86	25		
trans-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	5.29	25		
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130	6.15	25		
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130	5.89	25		
2,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130	5.49	25		
1,1-Dichloropropene	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130	0.655	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B199302 - SW-846 5035												
LCS Dup (B199302-BSD1)				Prepared & Analyzed: 03/22/18								
cis-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		97.9		70-130	2.52	25		
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105		70-130	7.71	25		
Diethyl Ether	0.0198	0.020	mg/Kg wet	0.0200		99.0		70-130	1.40	25		
Diisopropyl Ether (DIPE)	0.0190	0.0010	mg/Kg wet	0.0200		95.2		70-130	5.02	25		
1,4-Dioxane	0.198	0.10	mg/Kg wet	0.200		98.8		40-160	3.57	50		† ‡
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130	2.73	25		
Hexachlorobutadiene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-160	16.2	25		
2-Hexanone (MBK)	0.229	0.020	mg/Kg wet	0.200		115		70-160	13.9	25	V-20	†
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130	7.32	25		
p-Isopropyltoluene (p-Cymene)	0.0175	0.0020	mg/Kg wet	0.0200		87.4		70-130	14.7	25		
Methyl Acetate	0.0123	0.0020	mg/Kg wet	0.0200		**61.7**	*	70-130	2.88	25	L-04	
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		101		70-130	5.56	25		
Methyl Cyclohexane	0.0172	0.0020	mg/Kg wet	0.0200		86.2		70-130	3.08	25		
Methylene Chloride	0.0189	0.020	mg/Kg wet	0.0200		94.6		40-160	4.65	25		†
4-Methyl-2-pentanone (MIBK)	0.228	0.020	mg/Kg wet	0.200		114		70-160	10.9	25	V-20	†
Naphthalene	0.0181	0.0040	mg/Kg wet	0.0200		90.5		40-130	21.2	25		†
n-Propylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130	8.81	25		
Styrene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130	8.43	25		
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	5.60	25		
1,1,2,2-Tetrachloroethane	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130	17.2	25		
Tetrachloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	2.87	25		
Tetrahydrofuran	0.0231	0.010	mg/Kg wet	0.0200		115		70-130	1.75	25		
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130	4.68	25		
1,2,3-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130	24.0	25		
1,2,4-Trichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8		70-130	18.0	25		
1,3,5-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.1		70-130	17.9	25		
1,1,1-Trichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		87.8		70-130	7.88	25		
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	7.41	25		
Trichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130	4.36	25		
Trichlorofluoromethane (Freon 11)	0.0183	0.010	mg/Kg wet	0.0200		91.7		70-130	5.10	25		
1,2,3-Trichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	21.2	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0168	0.010	mg/Kg wet	0.0200		84.0		70-130	2.82	25		
1,2,4-Trimethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.1		70-130	11.5	25		
1,3,5-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130	9.17	25		
Vinyl Chloride	0.0167	0.010	mg/Kg wet	0.0200		83.3		40-130	8.62	25		†
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.3		70-130	4.76	25		
o-Xylene	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130	7.58	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0500*		mg/Kg wet	0.0500		100		70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0508*		mg/Kg wet	0.0500		102		70-130				

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B199307 - % Solids										
Duplicate (B199307-DUP4)	**Source: 18C0799-04**			Prepared: 03/22/18 Analyzed: 03/23/18						
% Solids	93.3		% Wt		93.7			0.443	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	NY,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

NEW YORK STATE

1860799

Company Name: Alpha Geoscience
Address: 679 Plank Road
Clifton Park, NY 12065
Attention: Scott Hulsapple
Project Location: Loudon Plaza
Sampled By: Kevin Phelan

Telephone: 518-348-6990
Project # 16117
Client PO# 16117

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ○ WEBSITE
Fax #
Email: shulsapple@alphageoscience.com
Format: ◉ PDF ○ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

○ Project Proposal Provided? (for billing purposes)

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	ANALYSIS REQUESTED: 8260 VOCs
1	Trench 60'-40'	3/16/18 14:22	3/16/18 14:25	✓		S	L-C	1	4	G	X
2	Trench 40'-20'	3/19/18 14:24	3/19/18 14:27	✓		S	L-C				X
3	Trench 20'-0'	3/19/18 14:28	3/19/18 14:30	✓		S	L-C				X
4	Side Trench 2'-15'	3/19/18 14:33	3/19/18 14:35	✓		S	L-C				X

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
Received by: (signature)	Date/Time: 3/20/18 9:48 AM	Received by:	Date/Time:
Relinquished by: (signature)	Date/Time: 3-20-18 1700	Relinquished by:	Date/Time:
Received by: (signature)	Date/Time: 3/21/18 13:31	Received by:	Date/Time:

Turnaround †
☐ 5-Day
☐ 7 Day
☒ 10-Day or Standard
RUSH †
24 hr ○ 48 hr ○
72 hr ○ 4 day ○
† Require lab approval

Program Information/Regulatory
○ NY TOGS ○ NY Restricted Use ○ NY Part 375
○ AWQ STDS ○ NY Unrestricted Use ○ NY CP-51
○ NYC Sewer Discharge ◉ Other: Brownfield Cleanup Program
○ Part 360 GW (Landfill)

Deliverables
○ ASP-A ○ Equis (1 file) ○ Other:
○ ASP-B ○ Equis (4 file)

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Table of Contents

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Alpha Geoscience

Received By SE Date 3/21/18 Time 13:31

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.3 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	4
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

IMPORTANT!
FedEx is closely monitoring the winter storms across portions of the U.S. Learn More

FedEx® Tracking

771793429616

Ship date:		Actual delivery:
Tue 3/20/2018	**Delivered**	**Wed 3/21/2018 1:31 pm**
ALBANY, NY US	*Signed for by: RPETRAITIS*	EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
3/21/2018 - Wednesday		
1:31 pm	Delivered	East Longmeadow, MA
5:20 am	On FedEx vehicle for delivery	CHICOPEE, MA
5:12 am	At local FedEx facility	CHICOPEE, MA
3:12 am	Left FedEx origin facility	RENSSELAER, NY
3/20/2018 - Tuesday		
8:39 pm	Arrived at FedEx location	RENSSELAER, NY
6:51 pm	Picked up	RENSSELAER, NY
5:43 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771793429616	**Service**	FedEx Ground
Reference	85	**Weight**	18 lbs / 8.16 kgs
Dimensions	19x13x11 in.	**Total pieces**	1
Terms	Recipient	**Packaging**	Package
Standard transit	3/21/2018		

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LANGUAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Solid Waste Management
625 Broadway, Albany, New York 12233-7260
P: (518) 402-8678 | F: (518) 402-9024
www.dec.ny.gov

April 16, 2018

Mr. Scott M. Hulseapple, PG, CPG
Hydrogeologist
Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

Re: Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Hulseapple:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the soil samples analytical results (Lab Sample ID: 18C0799-01, 18C0799-02, 18C0799-03 and 18C0799-04) submitted with your April 6, 2018 request for a “contained-in” determination for the referenced project.

Concentrations detected for individual VOCs were all significantly less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs were not detected above the detection limit.

Concentrations for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene and vinyl chloride (VC) were below the soil "contained in" action level and the Land Disposal Restriction concentration. Therefore, twenty (20) 55-gallon drums of soil, generated during the installation of the sub-slab piping as part of remedy at the referenced project, do not have to be managed as hazardous waste as they are transferred to a rolloff and be transported off-site by MC Environmental Services (MCES) of South Glens Falls, NY to the ESMI of New York facility in Fort Edward for thermal treatment.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Environmental Engineer 1
Waste Transporter and Resource Management Section

ec: K. Forster, DEC

MCES
MC ENVIRONMENTAL SERVICES, Inc.
526 Queensbury Ave. Queensbury, NY 12804
(518) 615-0349
FED. TAX ID. #14-1779702

INVOICE

DATE	INVOICE #
4/30/2018	45595

BILL TO:

ALPHA GEOSCIENCE
ATTN: SCOTT HULSAPPLE
679 PLANK ROAD
CLIFTON PARK, NY 12065

P.O. NUMBER	TERMS	PROJECT
CONTRACT	NET 21	SOIL MGMT

QUANTITY	DESCRIPTION	RATE	AMOUNT
	SERVICE DATE: 4/25/18 LOCATION: 350 NORTHERN BOULEVARD, ALBANY, NY		
1	MOBILIZATION, LABOR & EQUIPMENT TO "BULK" WASTE SOILS: TRANSPORT/DISPOSE OF DRUMS; TRANSPORT WASTE TO ESMI OF NY FOR DISPOSAL	1,796.00	1,796.00
6.76	DISPOSAL OF NON-HAZARDOUS SOIL - PER TON	68.75	464.75
		Subtotal	$2,260.75
		Sales Tax (8.0%)	$0.00
		TOTAL	$2,260.75

WE APPRECIATE YOUR BUSINESS!

Terms: A finance charge of 1½% per month (18% annum) will be charged on all accounts past due. The customer is also responsible for any expenses incurred due to default of payment.

ESMI OF NEW YORK
304 Towpath Road

Fort Edward, New York 12828

(518)747-5500

Ticket No :2724013
Date :4/25/18

Max. Acceptable Soil: 150.00

Customer: MCE10
MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVE.

QUEENSBURY, NY 12804

Job No : 10615
FORMER LOUDON & KEM CLEANERS
350 NORTHERN BLVD
ALBANY NY 12204

Running Tonnage: 6.76

Truck : MC-312 MC ENVIRONMENTAL
Location: DEFAULT

Gross : 40000 lb Scale 1 In
Tare : 26480 lb STORED Out

Net : 13520 lb
6.760 tn

Weigh Master: DONELLA_FISHER

License # 603581

Donella L Fisher

Material $
Delivery $
Misc $
Tax $

Total $

Remarks:

Signature:

MATERIAL	QTY	UNIT-$	DELIVERY-$	MISC-$	TAX-$	TOTAL-$
04 USED PETROLEUM SOLVENTS	6.760 tn					

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a	1	800-451-8984	042515 - S1

GENERATOR

5. Generator's Name and Mailing Address
DF Acquisitions, LLC
27 Burton Lane Attn: Frank Lanni
Albany, NY 12011
Generator's Phone: 518-423-6000

Generator's Site Address (if different than mailing address)
360 Northern Blvd.
Albany, NY 12204

6. Transporter 1 Company Name: MC Environmental Services, Inc.
U.S. EPA ID Number: NYR000021071

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ESMI OF NEW YORK
304 TOWPATH ROAD
FORT EDWARD, NY 12828 USA
Facility's Phone: 518-747-5500
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Petroleum Contaminated Soil	1	DT	16.76	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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/Offeror's Printed/Typed Name: Kevin Phelan, Alpha Geoscience As Agent for DF Acquisitions, LLC
Signature:
Month: 04 Day: 25 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian Flanagan
Signature:
Month: 4 Day: 25 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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 Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Donella Usher
Signature:
Month: 4 Day: 25 Year: 16

ALPHA PROJECT
EMPTY DRUMS - Held IDW (PCS)

R. Cohen Recycling, Inc.
38 Geer Street
Glens Falls, NY 12801
(518) 792-2010
"Conserving the Future by
Recycling the Past"
*******PAID IN FULL*******

Ticket# RC-174584
Station: POS1 User: DEE
4/25/2018 12:27 PM

Item #	Lbs	Price	Total
100028	-860		
Tin/Light Iron			

Total Amount Paid:

Tender:
Checks Written
#19117
19117

Items returned: 860

MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVENUE
QUEENSBURY, NY 12804

Dealers In: Scrap Iron and Steel,
Nonferrous, Alloys and Waste Paper
Roll Off Container Service Available
Thank you for your patronage!!

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

October 2, 2018

Mr. Henry Wilkie
NYS Dept. of Environmental Conservation
Division of Solid and Hazardous Waste
625 Broadway
Albany, NY 12233-7016

Re: Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Wilkie:

The purpose if this letter is to request a "Contained-In" determination that soils generated during the installation of the soil vapor extraction (SVE) system at the Former Loudon and Kem Cleaners BCP Site (NYSDEC Site ID #C401060) do not require disposal as a hazardous waste.

Site Background

The Former Loudon and Kem Cleaners site is located in an urban area in the northern section of the City of Albany, NY. The site is northwest of Northern Boulevard, northeast of Albany-Shaker Road, east of Old Hickory Road, and southwest of Loudonville Road (Route 9). A site location map is attached as Figure 1. The former Kem and Loudon Cleaners were located on the southwest "L" of the plaza (Figure 2).

Based on previous investigations conducted by others to date, the primary contaminants of concern (COC) for the site include the following chlorinated solvents: tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (cis-DCE), and vinyl chloride (VC). Only a few site-related COCs were detected above the protection of groundwater soil cleanup objectives (PGWSCOs)/unrestricted use SCOs (UUSCOs) as follows: PCE at 11.9 milligrams per kilogram (mg/kg) or parts per million (ppm) vs. PGWSCO of 1.3 ppm, cis-DCE at 0.44 ppm vs. PGWSCO of 0.25 ppm, and VC at 0.056 ppm vs. PGWSCO of 0.02 ppm. No metals, SVOCs, PCB/pesticides, or other VOCs were found above the commercial SCOs for soil.

Description of Current Activities

The current site owner (DF Acquisitions, LLC) has entered into a Brownfield Cleanup Agreement with the NYSDEC as a Volunteer to implement the on-site components of the remedy described in the 2015 Record of Decision (ROD). The on-site components of the remedy include the installation of an SVE system to prevent vapors from migrating into the southern wing of the on-site building.

The SVE wells were installed in 2017. The current work includes excavation of a trench for the piping to connect the SVE wells to the treatment shed that will be located behind the building. Installation of a new portion of the sanitary sewer that will replace a collapsed section will take place concurrently with installation of the SVE piping. The new six-inch diameter sanitary sewer will be placed at a depth of approximately four feet below grade. The sanitary sewer trench will be back-filled to a depth of approximately 1.5 to 2 feet. The SVE piping will be placed in the same trench as the new sewer and back filled with sand or crushed stone to grade. The location of the planned excavation is shown on Figure 3. The surface will be returned to its original condition (paved or concrete) at a later date as part of the ongoing renovations of the plaza.

It is anticipated that approximately 110 cubic yards (cu. yd.) of soil will be excavated from the approximately 320 linear feet of trench. Approximately 60 cu. yd. of soil that meets the criteria will be reused as backfill in the trench. Approximately 30 to 60 cu. yd. of soil will be transported of-site for disposal.

Three soil borings were advanced with a hand auger along the proposed excavation. The soils were visually screened by an Alpha geologist. No visual or olfactory indications of contamination were noted. One soil sample was analyzed from each boring for VOCs at a NYSDOH ELAP approved laboratory. One composite sample from the three borings was submitted for analysis of SVOCs and TPH-GRO. The laboratory analytical report for the samples are attached to this letter. None of the analytes were detected at concentrations above the reporting limit.

The excavation is anticipated to begin in October. The soil from along the excavation will be inspected and screened with a photo-ionization detector by an Alpha geologist. Soil that does not exhibit indication of contamination, such as staining, odors, or elevated PID readings, will be used to back fill the excavation to a depth of approximately two feet. Excavated soils that are not used for backfill will be placed in drums or a lined, sealed roll-off container. This "contained-in" determination request concerns the disposal of approximately 60 cu. yds. of uncontaminated soil, as represented by the attached laboratory data. The concentrations are well below the NYSDEC's unrestricted use SCOs. Pending the "contained-in" determination, the soil will be transported By MC Environmental Services (MCES) of South Glens Falls, NY to the ESMI of New York facility in Fort Edward for disposal.

Please do not hesitate to contact me if you have any questions. Thank you.

Sincerely,
Alpha Geoscience

Scott M. Hulseapple, PG, CPG
Hydrogeologist

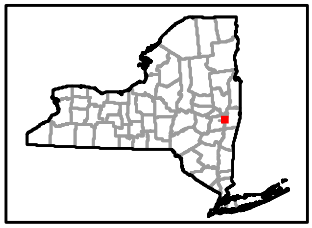
Attachments
Cc: K. Forster – NYSDEC
F. Lanni – DF Acquisitions
J. Privitera – MLTW, P.C.

SMH/bms
Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\2_0 Correspondence\Contained In Request 2018-10-02.docx

LEGEND

Site Boundary (approx.)

Source:
-NYSDOT 7.5-minute topographic map (Albany and Troy South quadrangles).
-Elevations are shown in feet above mean sea level.
-Contour interval is 10 feet.



ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 1
Site Location Map
Former Loudon and Kem Cleaner BCP Site

250 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Location_Map.mxd
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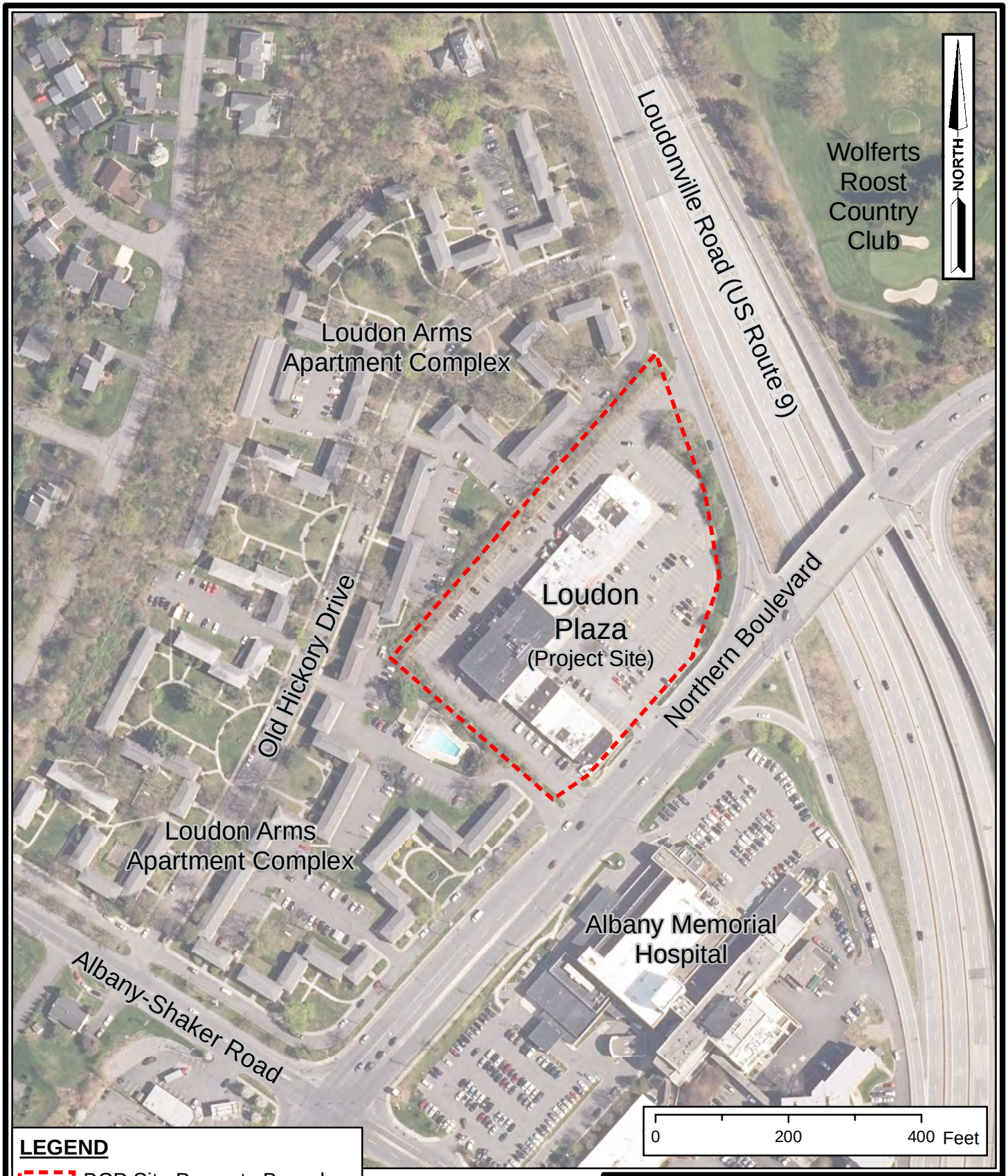

LEGEND

BCP Site Property Boundary

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 2
Site Map

Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Site_Ortho_Map.mxd
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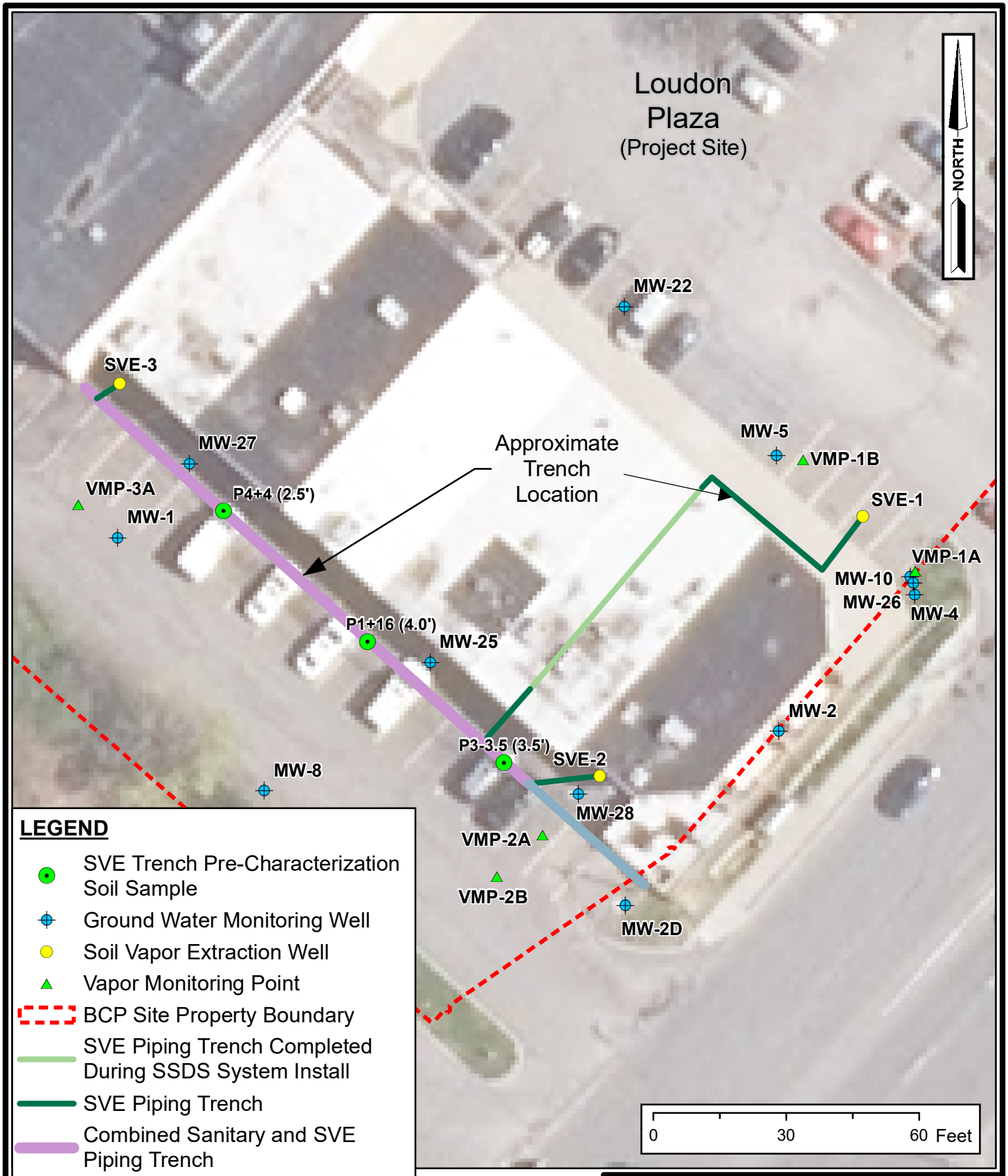

LEGEND

- SVE Trench Pre-Characterization Soil Sample
- Ground Water Monitoring Well
- Soil Vapor Extraction Well
- Vapor Monitoring Point
- BCP Site Property Boundary
- SVE Piping Trench Completed During SSDS System Install
- SVE Piping Trench
- Combined Sanitary and SVE Piping Trench
- Sanitary Sewer Trench

Notes:
-Parcel boundaries: Albany County Tax Map (2015), Sheet 65-07.
-Basemap: Albany County 12-inch resolution natural color orthoimagery (2014), NYS Office of Information Technology Services (ITS) (http://www.nysgis.state.ny.us).
-Locations and boundaries are approximate.

ALPHA GEOSCIENCE

Proj. No. 16117

FIGURE 3
Proposed Combined Sanitary Sewer and SVE Piping Trench
Former Loudon & Kem Cleaners BCP Site
NYSDEC ID #C401060
350 Northern Boulevard
City of Albany
Albany County, New York

Path: Z:\projects\2016\16100 - 16120\16117 - Loudon Plaza\15_0 GIS\Sewer_SVE_Trench.mxd
Date Saved: 10/2/2018 4:13:59 PM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 1, 2018

Scott Hulseapple
Alpha Geological Services, Inc.
679 Plank Road
Clifton Park, NY 12065

Project Location: Albany- Louden Plaza
Client Job Number:
Project Number: 16117
Laboratory Work Order Number: 18I1248

Enclosed are results of analyses for samples received by the laboratory on September 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Alpha Geological Services, Inc.
679 Plank Road
Clifton Park, NY 12065
ATTN: Scott Hulseapple

REPORT DATE: 10/1/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 16117

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1248

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Albany- Louden Plaza

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
P1+16 (4.0')	18I1248-01	Soil		SM 2540G	
				SW-846 8260C	
P3-3.5 (3.5')	18I1248-02	Soil		SM 2540G	
				SW-846 8260C	
P4+4 (2.5')	18I1248-03	Soil		SM 2540G	
				SW-846 8260C	
P1-P4 Composite	18I1248-04	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8015C

Qualifications:

PR-03

Sample preserved in the laboratory, not in the field as required by the method.

Analyte & Samples(s) Qualified:

18I1248-04[P1-P4 Composite]

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate

B213557-BS1, B213557-BSD1

PR-15

According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

Analyte & Samples(s) Qualified:

18I1248-01[P1+16 (4.0')], 18I1248-02[P3-3.5 (3.5')], 18I1248-03[P4+4 (2.5')]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

18I1248-01[P1+16 (4.0')], 18I1248-02[P3-3.5 (3.5')], 18I1248-03[P4+4 (2.5')], B213557-BLK1, B213557-BS1, B213557-BSD1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,4-Dioxane

B213557-BS1, B213557-BSD1

SW-846 8270D

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

18I1248-04[P1-P4 Composite], B213514-BLK1, B213514-BS1, B213514-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

18I1248-04[P1-P4 Composite], B213514-BLK1, B213514-BS1, B213514-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

18I1248-04[P1-P4 Composite], B213514-BLK1, B213514-BS1, B213514-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8015C

Gasoline Range Organics (2-Methylpentane through 1,2,4-Trimethylbenzene) is quantitated against a calibration made with an unleaded gasoline composite standard.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1+16 (4.0') | Sampled: 9/26/2018 10:20

Sample ID: 18I1248-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Benzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Bromochloromethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Bromoform	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Bromomethane	ND	0.010	0.0043	mg/Kg dry	1	V-34	SW-846 8260C	9/28/18	9/28/18 15:53	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Carbon Disulfide	ND	0.0062	0.0044	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Carbon Tetrachloride	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Chlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Chlorodibromomethane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Chloromethane	ND	0.010	0.0066	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Cyclohexane	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,1-Dichloroethane	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2-Dichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2-Dichloropropane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Ethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Methyl Acetate	ND	0.0021	0.0016	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Methyl Cyclohexane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Methylene Chloride	ND	0.021	0.0073	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0078	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Tetrachloroethylene	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Toluene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1+16 (4.0') | Sampled: 9/26/2018 10:20

Sample ID: 18I1248-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Trichloroethylene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 15:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		9/28/18 15:53
Toluene-d8	96.6	70-130		9/28/18 15:53
4-Bromofluorobenzene	100	70-130		9/28/18 15:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1+16 (4.0') | Sampled: 9/26/2018 10:20

Sample ID: 18I1248-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4		% Wt	1		SM 2540G	9/28/18	9/29/18 12:27	JFC

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P3-3.5 (3.5') | Sampled: 9/26/2018 09:50

Sample ID: 18I1248-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Bromodichloromethane	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Bromomethane	ND	0.012	0.0051	mg/Kg dry	1	V-34	SW-846 8260C	9/28/18	9/28/18 16:22	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Carbon Disulfide	ND	0.0072	0.0052	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Carbon Tetrachloride	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Chlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Chlorodibromomethane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Chloroform	ND	0.0048	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Chloromethane	ND	0.012	0.0077	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Cyclohexane	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,1-Dichloroethane	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,4-Dioxane	ND	0.12	0.070	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Ethylbenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Methylene Chloride	ND	0.024	0.0086	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0092	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Styrene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Toluene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P3-3.5 (3.5') | Sampled: 9/26/2018 09:50

Sample ID: 18I1248-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
m+p Xylene	ND	0.0048	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF
o-Xylene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		9/28/18 16:22
Toluene-d8	95.2	70-130		9/28/18 16:22
4-Bromofluorobenzene	100	70-130		9/28/18 16:22

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P3-3.5 (3.5') | Sampled: 9/26/2018 09:50

Sample ID: 18I1248-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7		% Wt	1		SM 2540G	9/28/18	9/29/18 12:28	JFC

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P4+4 (2.5') | Sampled: 9/26/2018 09:20

Sample ID: 18I1248-03

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Bromomethane	ND	0.012	0.0050	mg/Kg dry	1	V-34	SW-846 8260C	9/28/18	9/28/18 16:50	MFF
2-Butanone (MEK)	ND	0.047	0.021	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Carbon Disulfide	ND	0.0071	0.0051	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Carbon Tetrachloride	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Chlorodibromomethane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Chloroform	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Chloromethane	ND	0.012	0.0076	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Cyclohexane	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,4-Dioxane	ND	0.12	0.068	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Ethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0090	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Toluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P4+4 (2.5') | Sampled: 9/26/2018 09:20

Sample ID: 18I1248-03

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	9/28/18	9/28/18 16:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		9/28/18 16:50
Toluene-d8	97.5	70-130		9/28/18 16:50
4-Bromofluorobenzene	102	70-130		9/28/18 16:50

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P4+4 (2.5') | Sampled: 9/26/2018 09:20

Sample ID: 18I1248-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	9/28/18	9/29/18 12:28	JFC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1-P4 Composite | Sampled: 9/26/2018 10:30

Sample ID: 18I1248-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Bromophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Butylbenzylphthalate	ND	0.39	0.094	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Chloroaniline	ND	0.77	0.090	mg/Kg dry	1	V-34	SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2-Chloronaphthalene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2-Chlorophenol	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Chlorophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Dibenzofuran	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
1,2-Dichlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
1,3-Dichlorobenzene	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
1,4-Dichlorobenzene	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1	V-06	SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4-Dichlorophenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Diethylphthalate	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4-Dimethylphenol	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Dimethylphthalate	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4-Dinitrophenol	ND	0.77	0.22	mg/Kg dry	1	V-19	SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4-Dinitrotoluene	ND	0.39	0.064	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,6-Dinitrotoluene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Di-n-octylphthalate	ND	0.39	0.21	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Hexachlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Hexachlorobutadiene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Hexachlorocyclopentadiene	ND	0.39	0.083	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Hexachloroethane	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Isophorone	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1-P4 Composite | Sampled: 9/26/2018 10:30

Sample ID: 18I1248-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	0.099	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
3/4-Methylphenol	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
3-Nitroaniline	ND	0.39	0.057	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Nitrobenzene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
N-Nitrosodimethylamine	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
N-Nitrosodiphenylamine	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Pentachlorophenol	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Phenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
Pyridine	ND	0.39	0.064	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
1,2,4-Trichlorobenzene	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4,5-Trichlorophenol	ND	0.39	0.089	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL
2,4,6-Trichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	9/28/18	10/1/18 10:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.7	30-130		10/1/18 10:20
Phenol-d6	46.0	30-130		10/1/18 10:20
Nitrobenzene-d5	44.6	30-130		10/1/18 10:20
2-Fluorobiphenyl	48.3	30-130		10/1/18 10:20
2,4,6-Tribromophenol	52.6	30-130		10/1/18 10:20
p-Terphenyl-d14	52.8	30-130		10/1/18 10:20

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1-P4 Composite | Sampled: 9/26/2018 10:30

Sample ID: 18I1248-04

Sample Matrix: Soil

Sample Flags: PR-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.3	1.3	mg/Kg dry	1		SW-846 8015C	9/28/18	9/28/18 13:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1-Chloro-3-fluorobenzene	100	70-130			9/28/18 13:01

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Project Location: Albany- Louden Plaza | Sample Description: | Work Order: 18I1248

Date Received: 9/26/2018

Field Sample #: P1-P4 Composite | Sampled: 9/26/2018 10:30

Sample ID: 18I1248-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	9/28/18	9/29/18 12:28	JFC

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18I1248-01 [P1+16 (4.0')]	B213558	09/28/18
18I1248-02 [P3-3.5 (3.5')]	B213558	09/28/18
18I1248-03 [P4+4 (2.5')]	B213558	09/28/18
18I1248-04 [P1-P4 Composite]	B213558	09/28/18

Prep Method: SW-846 5035/5030B-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1248-04 [P1-P4 Composite]	B213511	15.1	17.1	09/28/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1248-01 [P1+16 (4.0')]	B213557	5.98	10.0	09/28/18
18I1248-02 [P3-3.5 (3.5')]	B213557	5.13	10.0	09/28/18
18I1248-03 [P4+4 (2.5')]	B213557	5.05	10.0	09/28/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18I1248-04 [P1-P4 Composite]	B213514	30.1	1.00	09/28/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213557 - SW-846 5035										
Blank (B213557-BLK1)				Prepared & Analyzed: 09/28/18						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B213557 - SW-846 5035												
Blank (B213557-BLK1)				Prepared & Analyzed: 09/28/18								
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0503*		mg/Kg wet	0.0500		101		70-130				
Surrogate: Toluene-d8	*0.0489*		mg/Kg wet	0.0500		97.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0495*		mg/Kg wet	0.0500		99.0		70-130				
LCS (B213557-BS1)				Prepared & Analyzed: 09/28/18								
Acetone	0.300	0.10	mg/Kg wet	0.200		150		70-160				†
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8		70-130				
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
Bromodichloromethane	0.0174	0.0020	mg/Kg wet	0.0200		86.8		70-130				
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130				
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		60.1		40-130			V-34	†
2-Butanone (MEK)	0.258	0.040	mg/Kg wet	0.200		129		70-160				†
Carbon Disulfide	0.0208	0.0060	mg/Kg wet	0.0200		104		70-130				
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130				
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
Chlorodibromomethane	0.0202	0.0010	mg/Kg wet	0.0200		101		70-130				
Chloroethane	0.0178	0.020	mg/Kg wet	0.0200		88.8		70-130			J	
Chloroform	0.0190	0.0040	mg/Kg wet	0.0200		95.0		70-130				
Chloromethane	0.0198	0.010	mg/Kg wet	0.0200		99.0		70-130				
Cyclohexane	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.1		70-130				
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130				
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.4		40-160			J	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2		70-130				
1,2-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130				
1,1-Dichloroethylene	0.0183	0.0040	mg/Kg wet	0.0200		91.4		70-130				
cis-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.4		70-130				
trans-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130				
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130				
cis-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		98.2		70-130				
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.0200		93.1		70-130				
1,4-Dioxane	0.244	0.10	mg/Kg wet	0.200		122		40-160			V-36	†
Ethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130				
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113		70-160				†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
Methyl Acetate	0.0796	0.0020	mg/Kg wet	0.0200		**398**	*	70-130			L-02	
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101		70-130				
Methyl Cyclohexane	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130				
Methylene Chloride	0.0196	0.020	mg/Kg wet	0.0200		97.9		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.200		101		70-160				†
Styrene	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130				
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.7		70-130				
Tetrachloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130				
Toluene	0.0176	0.0020	mg/Kg wet	0.0200		87.9		70-130				
1,2,3-Trichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
1,2,4-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.4		70-130				
1,1,2-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B213557 - SW-846 5035												
LCS (B213557-BS1)				Prepared & Analyzed: 09/28/18								
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130				
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.7		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0192	0.010	mg/Kg wet	0.0200		96.2		70-130				
Vinyl Chloride	0.0195	0.010	mg/Kg wet	0.0200		97.6		40-130				†
m+p Xylene	0.0372	0.0040	mg/Kg wet	0.0400		93.1		70-130				
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0515*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0489*		mg/Kg wet	0.0500		97.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102		70-130				
LCS Dup (B213557-BSD1)				Prepared & Analyzed: 09/28/18								
Acetone	0.235	0.10	mg/Kg wet	0.200		118		70-160	24.1	25		†
Benzene	0.0179	0.0020	mg/Kg wet	0.0200		89.3		70-130	2.76	25		
Bromochloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	1.45	25		
Bromodichloromethane	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130	0.578	25		
Bromoform	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130	6.40	25		
Bromomethane	0.0139	0.010	mg/Kg wet	0.0200		69.6		40-130	14.6	25	V-34	†
2-Butanone (MEK)	0.214	0.040	mg/Kg wet	0.200		107		70-160	18.7	25		†
Carbon Disulfide	0.0195	0.0060	mg/Kg wet	0.0200		97.6		70-130	6.45	25		
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		92.8		70-130	2.45	25		
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130	3.75	25		
Chlorodibromomethane	0.0198	0.0010	mg/Kg wet	0.0200		98.9		70-130	2.20	25		
Chloroethane	0.0170	0.020	mg/Kg wet	0.0200		85.0		70-130	4.37	25	J	
Chloroform	0.0185	0.0040	mg/Kg wet	0.0200		92.3		70-130	2.88	25		
Chloromethane	0.0191	0.010	mg/Kg wet	0.0200		95.5		70-130	3.60	25		
Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.7		70-130	3.79	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	9.77	25		
1,2-Dibromoethane (EDB)	0.0186	0.0010	mg/Kg wet	0.0200		93.2		70-130	5.12	25		
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.84	25		
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130	4.10	25		
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8		70-130	3.52	25		
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg wet	0.0200		87.6		40-160	5.33	25	J	†
1,1-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.6		70-130	2.77	25		
1,2-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.3		70-130	5.87	25		
1,1-Dichloroethylene	0.0178	0.0040	mg/Kg wet	0.0200		89.0		70-130	2.66	25		
cis-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.0		70-130	0.454	25		
trans-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130	2.30	25		
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130	1.57	25		
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5		70-130	7.06	25		
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.3		70-130	1.95	25		
1,4-Dioxane	0.186	0.10	mg/Kg wet	0.200		93.0		40-160	27.2	50	V-36	† ‡
Ethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130	3.54	25		
2-Hexanone (MBK)	0.202	0.020	mg/Kg wet	0.200		101		70-160	11.0	25		†
Isopropylbenzene (Cumene)	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.65	25		
Methyl Acetate	0.0768	0.0020	mg/Kg wet	0.0200		**384**	*	70-130	3.63	25	L-02	
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		97.9		70-130	2.82	25		
Methyl Cyclohexane	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	0.791	25		
Methylene Chloride	0.0192	0.020	mg/Kg wet	0.0200		96.0		40-160	1.96	25	J	†
4-Methyl-2-pentanone (MIBK)	0.197	0.020	mg/Kg wet	0.200		98.7		70-160	1.90	25		†
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130	1.94	25		
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		96.9		70-130	1.84	25		
Tetrachloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.5		70-130	3.05	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213557 - SW-846 5035										
LCS Dup (B213557-BSD1)				Prepared & Analyzed: 09/28/18						
Toluene	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130	2.07	25	
1,2,3-Trichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	5.64	25	
1,2,4-Trichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	6.81	25	
1,1,1-Trichloroethane	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130	3.65	25	
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130	3.34	25	
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	6.78	25	
Trichlorofluoromethane (Freon 11)	0.0164	0.010	mg/Kg wet	0.0200		81.8	70-130	6.96	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0181	0.010	mg/Kg wet	0.0200		90.4	70-130	6.22	25	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		92.9	40-130	4.93	25	†
m+p Xylene	0.0365	0.0040	mg/Kg wet	0.0400		91.4	70-130	1.90	25	
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	1.49	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213514 - SW-846 3546										
Blank (B213514-BLK1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-06
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B213514 - SW-846 3546											
Blank (B213514-BLK1)				Prepared: 09/28/18 Analyzed: 10/01/18							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*4.27*		mg/Kg wet	6.67		64.0	30-130				
Surrogate: Phenol-d6	*4.43*		mg/Kg wet	6.67		66.4	30-130				
Surrogate: Nitrobenzene-d5	*2.12*		mg/Kg wet	3.33		63.5	30-130				
Surrogate: 2-Fluorobiphenyl	*2.25*		mg/Kg wet	3.33		67.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.24*		mg/Kg wet	6.67		78.6	30-130				
Surrogate: p-Terphenyl-d14	*2.49*		mg/Kg wet	3.33		74.7	30-130				
LCS (B213514-BS1)				Prepared: 09/28/18 Analyzed: 10/01/18							
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140				
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140				
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140				
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140				
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140				
Benzo(b)fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140				
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140				
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140				
Bis(2-chloroethoxy)methane	1.16	0.34	mg/Kg wet	1.67		69.7	40-140				
Bis(2-chloroethyl)ether	1.03	0.34	mg/Kg wet	1.67		61.7	40-140				
Bis(2-Ethylhexyl)phthalate	1.16	0.34	mg/Kg wet	1.67		69.4	40-140				
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.7	40-140				
Butylbenzylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8	40-140				
Carbazole	1.06	0.17	mg/Kg wet	1.67		63.3	40-140				
4-Chloroaniline	0.816	0.66	mg/Kg wet	1.67		49.0	10-140			V-34	†
4-Chloro-3-methylphenol	1.09	0.66	mg/Kg wet	1.67		65.2	30-130				
2-Chloronaphthalene	0.921	0.34	mg/Kg wet	1.67		55.2	40-140				
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4	30-130				
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.1	40-140				
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140				
Dibenz(a,h)anthracene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140				
Dibenzofuran	1.09	0.34	mg/Kg wet	1.67		65.1	40-140				
1,2-Dichlorobenzene	0.928	0.34	mg/Kg wet	1.67		55.7	40-140				
1,3-Dichlorobenzene	0.897	0.34	mg/Kg wet	1.67		53.8	40-140				
1,4-Dichlorobenzene	0.905	0.34	mg/Kg wet	1.67		54.3	40-140				
3,3-Dichlorobenzidine	1.46	0.17	mg/Kg wet	1.67		87.4	20-140			V-06	†
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.7	30-130				
Diethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.2	40-140				
2,4-Dimethylphenol	0.991	0.34	mg/Kg wet	1.67		59.4	30-130				
Dimethylphthalate	1.11	0.34	mg/Kg wet	1.67		66.6	40-140				
4,6-Dinitro-2-methylphenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213514 - SW-846 3546										
LCS (B213514-BS1)				Prepared: 09/28/18 Analyzed: 10/01/18						
2,4-Dinitrophenol	1.21	0.66	mg/Kg wet	1.67		72.3	30-130			V-19
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140			
2,6-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.3	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			
Hexachlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Hexachlorobutadiene	0.998	0.34	mg/Kg wet	1.67		59.9	40-140			
Hexachlorocyclopentadiene	0.988	0.34	mg/Kg wet	1.67		59.3	40-140			
Hexachloroethane	0.906	0.34	mg/Kg wet	1.67		54.4	40-140			
Indeno(1,2,3-cd)pyrene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Isophorone	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
2-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
2-Methylphenol	1.04	0.34	mg/Kg wet	1.67		62.4	30-130			
3/4-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.4	30-130			
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.8	40-140			
3-Nitroaniline	1.03	0.34	mg/Kg wet	1.67		61.6	30-140			†
4-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.5	40-140			
Nitrobenzene	0.992	0.34	mg/Kg wet	1.67		59.5	40-140			
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.67		67.9	30-130			
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.3	30-130			
N-Nitrosodimethylamine	0.949	0.34	mg/Kg wet	1.67		56.9	40-140			
N-Nitrosodiphenylamine	1.30	0.34	mg/Kg wet	1.67		78.3	40-140			
N-Nitrosodi-n-propylamine	0.983	0.34	mg/Kg wet	1.67		59.0	40-140			
Pentachlorophenol	1.05	0.34	mg/Kg wet	1.67		62.7	30-130			
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Phenol	1.03	0.34	mg/Kg wet	1.67		61.8	30-130			
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Pyridine	0.694	0.34	mg/Kg wet	1.67		41.7	30-140			†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.7	40-140			
1,2,4-Trichlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140			
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130			
2,4,6-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Surrogate: 2-Fluorophenol	*4.23*		mg/Kg wet	6.67		63.4	30-130			
Surrogate: Phenol-d6	*4.42*		mg/Kg wet	6.67		66.3	30-130			
Surrogate: Nitrobenzene-d5	*2.12*		mg/Kg wet	3.33		63.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.30*		mg/Kg wet	3.33		69.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.40*		mg/Kg wet	6.67		80.9	30-130			
Surrogate: p-Terphenyl-d14	*2.47*		mg/Kg wet	3.33		74.2	30-130			
LCS Dup (B213514-BSD1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	11.8	30	
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	13.1	30	
Anthracene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	11.9	30	
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	9.84	30	
Benzo(a)pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	9.71	30	
Benzo(b)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	10.9	30	
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.7	40-140	10.6	30	
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	9.58	30	
Bis(2-chloroethoxy)methane	1.24	0.34	mg/Kg wet	1.67		74.2	40-140	6.17	30	
Bis(2-chloroethyl)ether	1.10	0.34	mg/Kg wet	1.67		65.7	40-140	6.31	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B213514 - SW-846 3546											
LCS Dup (B213514-BSD1)				Prepared: 09/28/18 Analyzed: 10/01/18							
Bis(2-Ethylhexyl)phthalate	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	8.66	30		
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		76.5	40-140	10.7	30		
Butylbenzylphthalate	1.25	0.34	mg/Kg wet	1.67		74.7	40-140	6.84	30		
Carbazole	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	12.7	30		
4-Chloroaniline	0.937	0.66	mg/Kg wet	1.67		56.2	10-140	13.8	30	V-34	†
4-Chloro-3-methylphenol	1.22	0.66	mg/Kg wet	1.67		73.4	30-130	11.7	30		
2-Chloronaphthalene	1.08	0.34	mg/Kg wet	1.67		64.6	40-140	15.6	30		
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4	30-130	10.8	30		
4-Chlorophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	12.3	30		
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	11.9	30		
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	12.3	30		
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.4	40-140	12.0	30		
1,2-Dichlorobenzene	0.983	0.34	mg/Kg wet	1.67		59.0	40-140	5.83	30		
1,3-Dichlorobenzene	0.940	0.34	mg/Kg wet	1.67		56.4	40-140	4.68	30		
1,4-Dichlorobenzene	0.950	0.34	mg/Kg wet	1.67		57.0	40-140	4.85	30		
3,3-Dichlorobenzidine	1.65	0.17	mg/Kg wet	1.67		99.0	20-140	12.4	50	V-06	† ‡
2,4-Dichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.4	30-130	8.25	30		
Diethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	12.1	30		
2,4-Dimethylphenol	1.09	0.34	mg/Kg wet	1.67		65.6	30-130	9.91	30		
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.6	40-140	9.96	30		
4,6-Dinitro-2-methylphenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	11.6	30		
2,4-Dinitrophenol	1.33	0.66	mg/Kg wet	1.67		80.0	30-130	10.1	30	V-19	
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	14.4	30		
2,6-Dinitrotoluene	1.38	0.34	mg/Kg wet	1.67		82.7	40-140	13.5	30		
Di-n-octylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5	40-140	8.56	30		
Fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	12.6	30		
Fluorene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140	11.3	30		
Hexachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140	10.6	30		
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140	7.43	30		
Hexachlorocyclopentadiene	1.08	0.34	mg/Kg wet	1.67		65.1	40-140	9.36	30		
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4	40-140	5.47	30		
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	11.1	30		
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.7	40-140	8.28	30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	7.32	30		
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.6	30-130	9.41	30		
3/4-Methylphenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	9.72	30		
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	8.71	30		
2-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.3	40-140	16.1	30		
3-Nitroaniline	1.18	0.34	mg/Kg wet	1.67		71.0	30-140	14.1	30		†
4-Nitroaniline	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	14.3	30		
Nitrobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	9.75	30		
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130	8.89	30		
4-Nitrophenol	1.25	0.66	mg/Kg wet	1.67		74.9	30-130	16.8	50		‡
N-Nitrosodimethylamine	1.01	0.34	mg/Kg wet	1.67		60.6	40-140	6.29	30		
N-Nitrosodiphenylamine	1.45	0.34	mg/Kg wet	1.67		87.0	40-140	10.6	30		
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.6	40-140	9.07	30		
Pentachlorophenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130	13.4	30		
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	11.3	30		
Phenol	1.16	0.34	mg/Kg wet	1.67		69.6	30-130	11.8	30		
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140	8.54	30		
Pyridine	0.718	0.34	mg/Kg wet	1.67		43.1	30-140	3.35	30		†
1,2,4,5-Tetrachlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	11.8	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213514 - SW-846 3546										
LCS Dup (B213514-BSD1)				Prepared: 09/28/18 Analyzed: 10/01/18						
1,2,4-Trichlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140	9.39	30	
2,4,5-Trichlorophenol	1.27	0.34	mg/Kg wet	1.67		76.3	30-130	9.42	30	
2,4,6-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.9	30-130	12.2	30	
Surrogate: 2-Fluorophenol	*4.65*		mg/Kg wet	6.67		69.8	30-130			
Surrogate: Phenol-d6	*4.88*		mg/Kg wet	6.67		73.3	30-130			
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.54*		mg/Kg wet	3.33		76.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.14*		mg/Kg wet	6.67		92.1	30-130			
Surrogate: p-Terphenyl-d14	*2.68*		mg/Kg wet	3.33		80.6	30-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213511 - SW-846 5035/5030B										
Blank (B213511-BLK1)				Prepared & Analyzed: 09/28/18						
Gasoline Range Organics (GRO)	ND	1.0	mg/Kg wet							
Surrogate: 1-Chloro-3-fluorobenzene	*14.9*		µg/L	15.0		99.1	70-130			
LCS (B213511-BS1)				Prepared & Analyzed: 09/28/18						
Gasoline Range Organics (GRO)	0.224	0.010	mg/Kg wet	0.250		89.4	80-120			
Surrogate: 1-Chloro-3-fluorobenzene	*16.2*		µg/L	15.0		108	70-130			
LCS Dup (B213511-BSD1)				Prepared & Analyzed: 09/28/18						
Gasoline Range Organics (GRO)	0.246	0.010	mg/Kg wet	0.250		98.5	80-120	9.63	30	
Surrogate: 1-Chloro-3-fluorobenzene	*15.9*		µg/L	15.0		106	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
PR-03	Sample preserved in the laboratory, not in the field as required by the method.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8015C in Soil	
Gasoline Range Organics (GRO)	NY,VA,NH,NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

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18J1249

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Company Name: Alpha Geoscience
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Attention: SCOTT HULSEAPPLE
Project Location: Albany - London Plaza
Sampled By: SCOTT HULSEAPPLE

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Project # 16117
Client PO# 16117

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ☒ WEBSITE
Fax #
Email: shulseapple@alphageo science.com
Format: PDF ☒ EXCEL ○ GIS ○
○ OTHER
○ "Enhanced Data Package"

○ Project Proposal Provided? (for billing purposes)_____

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	ANALYSIS REQUESTED: TCL VOCs 8260	BN/A SVOCs 8270	TPH GRO 8015
								1	1	1			
								I	I	I			
								G	G	G			
1	P1+16 (4.0')	9/26/18	10:20		X	S	L				X		
2	P3-3.5 (3.5')	9/26/18	9:50		X	S	L				X		
3	P4+4 (2.5')	9/26/18	9:20		X	S	L				X		
4	P1-P4 Composite	9/26/18	10:30	X		S	L					X	X

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
Please call regarding TAT. Results COB Monday?
9-27-18 C.L 16:00

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
	9/26/18 1120		
Received by: (signature)	Date/Time:	Received by:	Date/Time:
	9-26-18 1120		
Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
	9-27-18 12:15		
Received by: (signature)	Date/Time:	Received by:	Date/Time:
Joe Ecs	9/27/18 1215		

Turnaround †
☐ 5-Day
☐ 7 Day
☐ 10-Day or ___
RUSH †
24 hr ○ 48 hr ○
72 hr ○ 4 day ○
† Require lab approval

Program Information/Regulatory
○ NY TOGS ○ NY Restricted Use ○ NY Part 375
○ AWQ STDS ☒ NY Unrestricted Use ○ NY CP-51
○ NYC Sewer Discharge ○ Other:
○ Part 360 GW (Landfill)

Deliverables
○ ASP-A ○ Equis (1 file) ○ Other:
○ ASP-B ○ Equis (4 file)

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Joe Ecs 9/27/18 1600

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client: Alpha Geo Science

Received By: ESD Date: 9-27-18 Time: 16:00

How were the samples received? In Cooler: T No Cooler: _____ On Ice: T No Ice: _____ Direct from Sampling: _____ Ambient: _____ Melted Ice: _____

By Gun #: 522 Actual Temp - 5.4

Were samples within Temperature? 2-6°C: T By Blank #: _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client: T Analysis: T Sampler Name: T Project: T ID's: T Collection Dates/Times: T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid: _____ Base: _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	2
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	3
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

October 4, 2018

Mr. Scott M. Hulseapple, PG, CPG
Hydrogeologist
Alpha Geoscience
679 Plank Road
Clifton Park, New York 12065

Re: 3rd Contained-In Determination Request
Former Loudon and Kem Cleaners Brownfield Cleanup Site
350 Northern Boulevard
Albany, New York
NYSDEC Site ID #C401060

Dear Mr. Hulseapple:

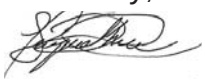
The New York State Department of Environmental Conservation (NYSDEC) has reviewed the soil samples analytical results (Lab Sample ID: 18I1248-01, 18I1248-02, 18I1248-03 and 18I1248-04) submitted with your October 2, 2018 request for a “contained-in” determination for the referenced project.

Concentrations detected for individual VOCs were all significantly less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs were not detected above the detection limit.

Concentrations for tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene and vinyl chloride (VC) were below the soil "contained in" action level and the Land Disposal Restriction concentration. Therefore, approximately 60 cu. yds. of soil, excavated from the approximately 320 linear feet of trench as part of remedy at the referenced project, do not have to be managed as hazardous waste as they are transferred to a roll-off and be transported off-site by MC Environmental Services (MCES) of South Glens Falls, NY to the ESMI of New York facility in Fort Edward for thermal treatment.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,



Henry Wilkie
Environmental Engineer 1
RCRA Permitting Section

ec: K. Forster, DEC

INVOICE

MCES
MC ENVIRONMENTAL SERVICES, Inc.
526 Queensbury Ave. Queensbury, NY 12804
(518) 615-0349
FED. TAX ID. #14-1779702

DATE	INVOICE #
11/26/2018	45754

BILL TO:

ALPHA GEOSCIENCE
ATTN: SCOTT HULSEAPPLE
679 PLANK ROAD
CLIFTON PARK, NY 12065

P.O. NUMBER	TERMS	PROJECT
CONTRACT	NET 21	T&D OF PCS

QUANTITY	DESCRIPTION	RATE	AMOUNT
	SERVICE DATE: 11/21/18 LOCATION: LOUDON PLAZA, 350 NO. BLVD, ALBANY, NY		
4	TRI-AXLE DUMP TRUCK & DRIVER TO TRANSPORT PCS TO ESMI OF NY - PORTAL TO PORTAL - PER HR:	99.00	396.00
21.41	DISPOSAL OF CONTAMINATED SOIL - PER TON	68.75	1,471.94
		Subtotal	$1,867.94
		Sales Tax (8.0%)	$0.00
		TOTAL	$1,867.94

WE APPRECIATE YOUR BUSINESS!

Terms: A finance charge of 1½% per month (18% annum) will be charged on all accounts past due. The customer is also responsible for any expenses incurred due to default of payment.

MC Environmental Services, Inc.

526 Queensbury Avenue ♦♦ Queensbury, NY 12804
Phone: 518-615-0349 ♦♦ Fax: 615-0355 ♦♦ www.yesmces.com

Kevin Phelan
518-248-5896

Dates: 11/21/18 **Customer:** Alpha Geoscience

Location: Former Loudon Kem Cleaners – Loudon Plaza – 350 N. Blvd - Albany

Project Name: T&D of PCS to ESMI

ONsite @ 7:30 am

NAME:	Job Description TIME START	STOP	HRS.	Job Description TIME START	STOP	HRS.	Job Description TIME START	STOP	HRS.	TOTAL HRS.
B. Flanagan	6:00 am	10:00 am	4.00							
EQUIPMENT:										
367-312										

MATERIALS / NOTES:	

[signature]
MCES Supervisor

Customer Approval By

ESMI OF NEW YORK
304 Towpath Road

Fort Edward New York, 12828

Ticket No: 2726918
Date: 11/21/2018 9:27 AM
Phone: (518) 747-5500
Fax: (518) 747-1181

Customer: MCE10
MC ENVIRONMENTAL SERVICES
526 QUEENSBURY AVE.

QUEENSBURY NY, 12804

Order No: 10859
FORMER LOUDON & KEM CLEANERS
350 NORTHERN BLVD

ALBANY , NY 12204
Running Tonnage: 21.41

Truck: MC-312 MC ENVIRONMENTAL
Location: DEFAULT
Weigh Master: DONELLA_FISHER
License # 603581

Gross: 69,300 lb Scale 1 Out 9:26 AM
Tare: 26,480 lb STORED In 9:26 AM
Net: 42,820 lb
21.41 tn

Remarks:

Material $
Delivery $
Misc $
Tax $
Total $

Signature:

MATERIAL	QTY	UNIT-$	DELIVERY $	MISC $	TAX $	TOTAL $
04 USED CHLORINATED SOLVENTS	21.41 tn					

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a	1	800-451-8984	112116 - SI

GENERATOR

5. Generator's Name and Mailing Address
DF Acquisitions, LLC
27 Burton Lane Attn: Frank Lanni
Albany, NY 12011
Generator's Phone: 518-423-6000

Generator's Site Address (if different than mailing address)
360 Northern Blvd.
Albany, NY 12204

6. Transporter 1 Company Name: MC Environmental Services, Inc.
U.S. EPA ID Number: NYR000021071

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ESMI OF NEW YORK
304 TOWPATH ROAD
FORT EDWARD, NY 12828 USA
Facility's Phone: 518-747-5500
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Petroleum Contaminated Soil	1	DT	81.41	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

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/Offeror's Printed/Typed Name: Kevin Phelan, Authorized Agent for DF Acquisitions LLC
Signature:
Month: 11 Day: 21 Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian Flanagan
Signature:
Month: 11 Day: 21 Year: 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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 Day Year

18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Donella L Fisher
Signature: Donella L Fisher
Month: 11 Day: 21 Year: 18

nt or type
igned for use on elite (12-pitch) typewriter.)

ION-HAZARDOUS VASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	C E S Q 6	1	800-255-3942	19-07093-01

enerator's Name and Mailing Address
Camow Real Estate Services
99 Washington avenue Extension
Albany NY 12210
erator's Phone:

Generator's Site Address (if different than mailing address)
Camow Real Estate Services
350 Northern Boulevard
Albany NY 12204

ansporter 1 Company Name
Precision Industrial Maintenance, Inc

U.S. EPA ID Number
N Y 0 0 0 1 0 3 1 8 1 4

ansporter 2 Company Name
Allstate Power Vac, Inc.

U.S. EPA ID Number
N J D 0 0 3 8 1 2 0 4 7

esignated Facility Name and Site Address
Cycle Chem, Inc.
217 South First Street
Elizabeth NJ 07206
ity's Phone: 908 355-2800

U.S. EPA ID Number
N J D 0 0 2 2 0 0 0 4 6

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. Non-RCRA, non-DOT Regulated Solid (Spent Carbon)	5	DM	1000	P	
2.					
3.					
4.					

Special Handling Instructions and Additional Information
1)(Spent carbon) / Profile# 5 / CONTAINER QTY. & SIZE: 55gal
Job#19-07093

ENERATOR'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, narked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

erator's/Offeror's Printed/Typed Name (on behalf of)
Jeff Kaleta

Signature

Month 9 Day 12 Year 19

nternational Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

sporter Signature (for exports only): Date leaving U.S.:

Transporter Acknowledgment of Receipt of Materials

sporter 1 Printed/Typed Name
Robert C Johnson

Signature

Month 9 Day 12 Year 19

sporter 2 Printed/Typed Name

Signature

Month Day Year

Discrepancy

Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

Alternate Facility (or Generator)

U.S. EPA ID Number

ity's Phone:

Signature of Alternate Facility (or Generator)

Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

ed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY TO GENERATOR

PRECISION
Industrial Maintenance, Inc

1710 Erie Boulevard
Schenectady, NY 12308
Phone: 518-346-5800 Fax: 518-346-6077

Invoice: # 3448

Date: 7/15/2020

BILL TO
DF Acquisitions
C/O Carrow Real EstateServices
PO Box 36453
Charlotte, NC 28236

SITE ADDRESS
Loudon Plaza
350 Northern Blvd
Albany, NY 12207

ACCOUNT NO	P.O. NUMBER	REP	TERMS	JOB #	PAGE
CARROW		JK	Net 30	20-07085	1

ITEM NO	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED
	1	7/14/2020 Disposal - 4 X 55 gallon non-haz - spent carbon - per stop charge	995.00	995.00
	3	Disposal - 3 X 55 gallon non-haz - spent carbon - additional drum charge	185.00	555.00

A 1 ½% per month late charge will be assessed on past due amounts over 30 days.

ITEM TOTAL	1,550.00
TAX	124.00
BALANCE DUE	**1,674.00**

DUE DATE: 8/14/2020

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	C E S Q G	1	800-255-3942	20-07085-01

5. Generator's Name and Mailing Address
Carrow Real Estate Services
99 Washington Avenue Extension
Albany NY 12210
Generator's Phone:

Generator's Site Address (if different than mailing address)
Carrow Real Estate Services
350 Northern Boulevard
Albany NY 12204

6. Transporter 1 Company Name
Precision Industrial Maintenance, Inc.
U.S. EPA ID Number: N Y 0 0 0 1 0 3 1 8 1 4

7. Transporter 2 Company Name
ACV ENVIRONMENTAL SERVICES, INC.
U.S. EPA ID Number: N J D 0 0 3 8 1 2 0 4 7

8. Designated Facility Name and Site Address
Cycle Chem, Inc.
217 South First Street
Elizabeth NJ 07206
Facility's Phone: 908 355-5900
U.S. EPA ID Number: N J D 0 0 2 2 0 0 0 4 6

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, non-DOT Regulated Solid (Spent Carbon)	07	DM	210	P	1127
2.						
3.						
4.						

"Came As Is"

13. Special Handling Instructions and Additional Information
1)(Spent carbon) / Profile#37439 / CONTAINER QTY. & SIZE: 7x / Job#20-07085

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/Offeror's Printed/Typed Name: for Bill Weiland | Signature | Month: 7 | Day: 14 | Year: 20

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Bill Weiland | Signature | Month: 7 | Day: 14 | Year: 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

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 | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR — TRANSPORTER — INT'L — DESIGNATED FACILITY

Appendix G: CAMP Field Data Sheets and Air Monitoring Data

CAMP MONITORING
Project: Loudon Plaza - Albany NY
DATE: 7-17-2017

WEATHER 85-88° RH 50%
WIND FORECASTED W 0-5MPH

TIME	STA1-PM10 (A)	STA1-PID (A)	STA2-PM10 (B)	STA2-PID (B)	COMMENTS
0930	0.033	Ø	0.036	Ø	START GEOPROBE SAMPLING
0945	0.035	Ø	0.036	Ø	
1000	0.037	Ø	0.041	Ø	
1015	0.031	Ø	0.044	Ø	END GEOPROBE SAMPLING
1030	0.035	Ø	0.040	Ø	START HSA DRILLING
1045	0.036	Ø	0.038	Ø	
1100	0.030	Ø	0.031	Ø	
1115	0.028	Ø	0.035	Ø	
1130	0.029	Ø	0.038	Ø	
1145	0.030	Ø	0.032	Ø	
1200	0.031	Ø	0.029	Ø	
1215	0.030	Ø	0.031	Ø	
1230	0.028	Ø	0.035	Ø	
1300	0.030	Ø	0.029	Ø	
1315	0.028	Ø	0.030	Ø	
1330	0.024	Ø	0.026	Ø	
1345	0.024	Ø	0.029	Ø	
1400	0.027	Ø	0.028	Ø	FINISHED Drilling + SOIL disturbance for day ON EAST SIDE OF BLDNG
	WND DIRECTION PREDOMINANTLY FROM WEST FROM STA B TOWARD STA A. PERIODICALLY REVERSED DIRECTION BUT MOSTLY FROM WEST TO EAST MILD THROUGHOUT DAY EST Ø-5 MPH				
	ON-SITE 7 AM - 3:30 PM				

STA-A = LOUDON-UP 002 - 70' EAST OF BORING
STA-B = LOUDON-DOWN 002 - 30' SW of BORING

SHEET 1 of 2

CAMP MONITORING
Project: Loudon Plaza - Albany NY
DATE: 7/18-17

STA-A UPWIND NORTH PARK LOT
STA-B DOWNWIND SOUTH NEXT TO ROAD

TIME	STA-A PM10	STA-A PID	STA-B PM10	STA-B PID	COMMENTS
0600	0.027	Ø	0.042	Ø	START GEOPROBE Drilling EAST
8:15	0.028	Ø	0.036	Ø	SIDE VAPOR MONITOR POINTS
8:30	0.029	Ø	0.034	0.1	8:00 AM - Slight breeze from NORTH @ START
8:45	0.030	Ø	0.029	0.1	
9:00	0.032	Ø	0.034	0.1	65-75° 92% RH
9:15	0.024	Ø	0.036	0.1	WIND forecasted S-2MPH
~~9:30~~					
	ON SITE 7:00 AM				

STA A 50-90' NORTH OF BORINGS
STA-B 40 and 10' SOUTH OF BORINGS

CAMP MONITORING
Project: Loudon Plaza - Albany NY
DATE: 7-18-2017

WIND <5mph - predominantly from North to south or west side of bldg A → B STA

TIME	STA1-PM10	STA1-PID	STA2-PM10	STA2-PID	COMMENTS
0930	0.026	∅	0.034	∅	START HSA DRILLING WEST SIDE
1000	0.028	∅	0.036	∅	BUILDING SOUTH END
10:15	0.030	∅	0.047	∅	
10:30	0.030	∅	0.039	∅	
10:45	0.034	∅	0.038	∅	START GEOPROBE DRILLING
11:00	0.033	∅	0.037	∅	+ SAMPLING WEST SIDE AREA
11:15	0.039	∅	0.042	∅	
11:30	0.037	∅	0.040	∅	
11:45	0.035	∅	0.042	∅	
1200	0.039	∅	0.047	∅	Between 12:00 and 12:15
12:15	0.039	∅	0.070	∅	high PM values due to driller
12:30	0.038	∅	0.042	∅	cutting asphalt for well
12:45	0.045	∅	0.038	∅	- levels elevated due to
1300	0.052	∅	0.040	∅	drill rig exhaust @ STA-A
1315	0.049	∅	0.037	∅	- Cutting pavement dust 1300-1315
1330	0.040	∅	0.045	∅	
1345	0.041	∅	0.041	∅	
1400	0.042	∅	0.042	∅	
1415	0.038	∅	0.044	∅	
1430	0.035	∅	0.040	∅	
1445	0.038	∅	0.039	∅	
1500	0.038	∅	0.040	∅	END DRILLING AND MONITORING 1500

STA-A North END OF WORK AREA = LOUDON-A

STA-B SOUTH END OF WORK AREA = LOUDON B

Appendix H: Raw Analytical Laboratory Data

ANALYTICAL REPORT

Lab Number:	L1731105
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	LOUDON PLAZA
Project Number:	Not Specified
Report Date:	09/13/17

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

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

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1731105-01	SVE-2 STACK@50"	SOIL_VAPOR	ALBANY, NY	08/30/17 14:25	09/05/17
L1731105-02	SVE-3 STACK@50"	SOIL_VAPOR	ALBANY, NY	08/30/17 15:53	09/05/17

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

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: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 29, 2017. The canister certification results are provided as an addendum.

L1731105-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 09/13/17

AIR

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-01 D
Client ID: SVE-2 STACK@50"
Sample Location: ALBANY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/13/17 06:30
Analyst: MB

Date Collected: 08/30/17 14:25
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	278.	--	ND	1370	--		1389
Chloromethane	ND	278.	--	ND	574	--		1389
Freon-114	ND	278.	--	ND	1940	--		1389
Vinyl chloride	ND	278.	--	ND	711	--		1389
1,3-Butadiene	ND	278.	--	ND	615	--		1389
Bromomethane	ND	278.	--	ND	1080	--		1389
Chloroethane	ND	278.	--	ND	734	--		1389
Ethanol	ND	6940	--	ND	13100	--		1389
Vinyl bromide	ND	278.	--	ND	1220	--		1389
Acetone	ND	1390	--	ND	3300	--		1389
Trichlorofluoromethane	ND	278.	--	ND	1560	--		1389
Isopropanol	ND	694.	--	ND	1710	--		1389
1,1-Dichloroethene	ND	278.	--	ND	1100	--		1389
Tertiary butyl Alcohol	ND	694.	--	ND	2100	--		1389
Methylene chloride	ND	694.	--	ND	2410	--		1389
3-Chloropropene	ND	278.	--	ND	870	--		1389
Carbon disulfide	ND	278.	--	ND	866	--		1389
Freon-113	ND	278.	--	ND	2130	--		1389
trans-1,2-Dichloroethene	ND	278.	--	ND	1100	--		1389
1,1-Dichloroethane	ND	278.	--	ND	1130	--		1389
Methyl tert butyl ether	ND	278.	--	ND	1000	--		1389
2-Butanone	ND	694.	--	ND	2050	--		1389
cis-1,2-Dichloroethene	11700	278	--	46400	1100	--		1389
Ethyl Acetate	ND	694.	--	ND	2500	--		1389

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-01 D
Client ID: SVE-2 STACK@50"
Sample Location: ALBANY, NY

Date Collected: 08/30/17 14:25
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	278	--	ND	1360	--		1389
Tetrahydrofuran	ND	694	--	ND	2050	--		1389
1,2-Dichloroethane	ND	278.	--	ND	1130	--		1389
n-Hexane	ND	278.	--	ND	980	--		1389
1,1,1-Trichloroethane	ND	278.	--	ND	1520	--		1389
Benzene	ND	278.	--	ND	888	--		1389
Carbon tetrachloride	ND	278.	--	ND	1750	--		1389
Cyclohexane	ND	278.	--	ND	957	--		1389
1,2-Dichloropropane	ND	278.	--	ND	1280	--		1389
Bromodichloromethane	ND	278.	--	ND	1860	--		1389
1,4-Dioxane	ND	278.	--	ND	1000	--		1389
Trichloroethene	2060	278	--	11100	1490	--		1389
2,2,4-Trimethylpentane	ND	278.	--	ND	1300	--		1389
Heptane	ND	278.	--	ND	1140	--		1389
cis-1,3-Dichloropropene	ND	278.	--	ND	1260	--		1389
4-Methyl-2-pentanone	ND	694.	--	ND	2840	--		1389
trans-1,3-Dichloropropene	ND	278.	--	ND	1260	--		1389
1,1,2-Trichloroethane	ND	278.	--	ND	1520	--		1389
Toluene	ND	278.	--	ND	1050	--		1389
2-Hexanone	ND	278.	--	ND	1140	--		1389
Dibromochloromethane	ND	278.	--	ND	2370	--		1389
1,2-Dibromoethane	ND	278.	--	ND	2140	--		1389
Tetrachloroethene	120000	278	--	814000	1890	--		1389
Chlorobenzene	ND	278.	--	ND	1280	--		1389
Ethylbenzene	ND	278.	--	ND	1210	--		1389
p/m-Xylene	ND	556.	--	ND	2420	--		1389
Bromoform	ND	278.	--	ND	2870	--		1389
Styrene	ND	278.	--	ND	1180	--		1389

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-01 D
Client ID: SVE-2 STACK@50"
Sample Location: ALBANY, NY
Date Collected: 08/30/17 14:25
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	278.	--	ND	1910	--		1389
o-Xylene	ND	278.	--	ND	1210	--		1389
4-Ethyltoluene	ND	278.	--	ND	1370	--		1389
1,3,5-Trimethylbenzene	ND	278.	--	ND	1370	--		1389
1,2,4-Trimethylbenzene	ND	278.	--	ND	1370	--		1389
Benzyl chloride	ND	278.	--	ND	1440	--		1389
1,3-Dichlorobenzene	ND	278.	--	ND	1670	--		1389
1,4-Dichlorobenzene	ND	278.	--	ND	1670	--		1389
1,2-Dichlorobenzene	ND	278.	--	ND	1670	--		1389
1,2,4-Trichlorobenzene	ND	278.	--	ND	2060	--		1389
Hexachlorobutadiene	ND	278.	--	ND	2970	--		1389

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-02 D
Client ID: SVE-3 STACK@50"
Sample Location: ALBANY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/13/17 07:55
Analyst: MB

Date Collected: 08/30/17 15:53
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	111.	--	ND	549	--		555.6
Chloromethane	ND	111.	--	ND	229	--		555.6
Freon-114	ND	111.	--	ND	776	--		555.6
Vinyl chloride	ND	111.	--	ND	284	--		555.6
1,3-Butadiene	ND	111.	--	ND	246	--		555.6
Bromomethane	ND	111.	--	ND	431	--		555.6
Chloroethane	ND	111.	--	ND	293	--		555.6
Ethanol	ND	2780	--	ND	5240	--		555.6
Vinyl bromide	ND	111.	--	ND	485	--		555.6
Acetone	ND	556	--	ND	1320	--		555.6
Trichlorofluoromethane	ND	111.	--	ND	624	--		555.6
Isopropanol	ND	278.	--	ND	683	--		555.6
1,1-Dichloroethene	ND	111.	--	ND	440	--		555.6
Tertiary butyl Alcohol	ND	278.	--	ND	843	--		555.6
Methylene chloride	ND	278	--	ND	966	--		555.6
3-Chloropropene	ND	111.	--	ND	347	--		555.6
Carbon disulfide	ND	111.	--	ND	346	--		555.6
Freon-113	ND	111.	--	ND	851	--		555.6
trans-1,2-Dichloroethene	114	111	--	452	440	--		555.6
1,1-Dichloroethane	ND	111.	--	ND	449	--		555.6
Methyl tert butyl ether	ND	111.	--	ND	400	--		555.6
2-Butanone	ND	278	--	ND	820	--		555.6
cis-1,2-Dichloroethene	22700	111	--	90000	440	--		555.6
Ethyl Acetate	ND	278.	--	ND	1000	--		555.6

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-02 D
Client ID: SVE-3 STACK@50"
Sample Location: ALBANY, NY

Date Collected: 08/30/17 15:53
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	111.	--	ND	542	--		555.6
Tetrahydrofuran	2800	278	--	8260	820	--		555.6
1,2-Dichloroethane	ND	111.	--	ND	449	--		555.6
n-Hexane	ND	111.	--	ND	391	--		555.6
1,1,1-Trichloroethane	ND	111.	--	ND	606	--		555.6
Benzene	ND	111.	--	ND	355	--		555.6
Carbon tetrachloride	ND	111.	--	ND	698	--		555.6
Cyclohexane	ND	111.	--	ND	382	--		555.6
1,2-Dichloropropane	ND	111.	--	ND	513	--		555.6
Bromodichloromethane	ND	111.	--	ND	744	--		555.6
1,4-Dioxane	ND	111.	--	ND	400	--		555.6
Trichloroethene	4880	111	--	26200	597	--		555.6
2,2,4-Trimethylpentane	ND	111.	--	ND	518	--		555.6
Heptane	ND	111.	--	ND	455	--		555.6
cis-1,3-Dichloropropene	ND	111.	--	ND	504	--		555.6
4-Methyl-2-pentanone	ND	278.	--	ND	1140	--		555.6
trans-1,3-Dichloropropene	ND	111.	--	ND	504	--		555.6
1,1,2-Trichloroethane	ND	111.	--	ND	606	--		555.6
Toluene	ND	111.	--	ND	418	--		555.6
2-Hexanone	ND	111.	--	ND	455	--		555.6
Dibromochloromethane	ND	111.	--	ND	946	--		555.6
1,2-Dibromoethane	ND	111.	--	ND	853	--		555.6
Tetrachloroethene	22000	111	--	149000	753	--		555.6
Chlorobenzene	ND	111.	--	ND	511	--		555.6
Ethylbenzene	ND	111.	--	ND	482	--		555.6
p/m-Xylene	ND	222.	--	ND	964	--		555.6
Bromoform	ND	111.	--	ND	1150	--		555.6
Styrene	ND	111.	--	ND	473	--		555.6

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731105-02 D
Client ID: SVE-3 STACK@50"
Sample Location: ALBANY, NY
Date Collected: 08/30/17 15:53
Date Received: 09/05/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	111.	--	ND	762	--		555.6
o-Xylene	ND	111.	--	ND	482	--		555.6
4-Ethyltoluene	ND	111.	--	ND	546	--		555.6
1,3,5-Trimethylbenzene	ND	111.	--	ND	546	--		555.6
1,2,4-Trimethylbenzene	ND	111.	--	ND	546	--		555.6
Benzyl chloride	ND	111.	--	ND	575	--		555.6
1,3-Dichlorobenzene	ND	111.	--	ND	667	--		555.6
1,4-Dichlorobenzene	ND	111.	--	ND	667	--		555.6
1,2-Dichlorobenzene	ND	111.	--	ND	667	--		555.6
1,2,4-Trichlorobenzene	ND	111.	--	ND	824	--		555.6
Hexachlorobutadiene	ND	111.	--	ND	1180	--		555.6

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

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/12/17 13:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1040959-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/12/17 13:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1040959-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1731105
Report Date: 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/12/17 13:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1040959-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

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: WG1040959-3								
Chlorodifluoromethane	85		-		70-130	-		
Propylene	105		-		70-130	-		
Propane	87		-		70-130	-		
Dichlorodifluoromethane	86		-		70-130	-		
Chloromethane	95		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97		-		70-130	-		
Methanol	87		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	82		-		70-130	-		
Bromomethane	94		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Dichlorofluoromethane	87		-		70-130	-		
Vinyl bromide	94		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	96		-		70-130	-		
Acetonitrile	85		-		70-130	-		
Trichlorofluoromethane	96		-		70-130	-		
iso-Propyl Alcohol	101		-		70-130	-		
Acrylonitrile	95		-		70-130	-		
Pentane	86		-		70-130	-		
Ethyl ether	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1731105

Report Date: 09/13/17

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: WG1040959-3								
1,1-Dichloroethene	96		-		70-130	-		
tert-Butyl Alcohol	91		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	102		-		70-130	-		
Carbon disulfide	91		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	87		-		70-130	-		
Vinyl acetate	97		-		70-130	-		
2-Butanone	94		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		
Ethyl Acetate	104		-		70-130	-		
Chloroform	98		-		70-130	-		
Tetrahydrofuran	91		-		70-130	-		
2,2-Dichloropropane	89		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	96		-		70-130	-		
Isopropyl Ether	88		-		70-130	-		
Ethyl-Tert-Butyl-Ether	88		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	92		-		70-130	-		
Benzene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

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: WG1040959-3								
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	96		-		70-130	-		
Tertiary-Amyl Methyl Ether	88		-		70-130	-		
Dibromomethane	91		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
Trichloroethene	97		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Methyl Methacrylate	115		-		70-130	-		
Heptane	98		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	92		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	95		-		70-130	-		
1,3-Dichloropropane	90		-		70-130	-		
2-Hexanone	102		-		70-130	-		
Dibromochloromethane	101		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Butyl Acetate	94		-		70-130	-		
Octane	91		-		70-130	-		
Tetrachloroethene	94		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1731105

Report Date: 09/13/17

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: WG1040959-3								
1,1,1,2-Tetrachloroethane	90		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	101		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	101		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	92		-		70-130	-		
Isopropylbenzene	92		-		70-130	-		
Bromobenzene	91		-		70-130	-		
o-Chlorotoluene	90		-		70-130	-		
n-Propylbenzene	89		-		70-130	-		
p-Chlorotoluene	88		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	98		-		70-130	-		
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	92		-		70-130	-		
Benzyl chloride	107		-		70-130	-		
1,3-Dichlorobenzene	99		-		70-130	-		
1,4-Dichlorobenzene	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

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: WG1040959-3								
sec-Butylbenzene	93		-		70-130	-		
p-Isopropyltoluene	87		-		70-130	-		
1,2-Dichlorobenzene	98		-		70-130	-		
n-Butylbenzene	96		-		70-130	-		
1,2-Dibromo-3-chloropropane	94		-		70-130	-		
Undecane	101		-		70-130	-		
Dodecane (C12)	116		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Naphthalene	96		-		70-130	-		
1,2,3-Trichlorobenzene	97		-		70-130	-		
Hexachlorobutadiene	101		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1040959-5 QC Sample: L1731899-01 Client ID: DUP Sample						
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	9.17	8.69	ppbV	5		25
Benzene	4.80	4.52	ppbV	6		25
Trichloroethene	25.1	23.8	ppbV	5		25
Tetrachloroethene	674	651	ppbV	3		25

Project Name: LOUDON PLAZA

Lab Number: L1731105

Project Number:

Report Date: 09/13/17

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
L1731105-01	SVE-2 STACK@50"	410	2.7L Can	08/29/17	248245	L1729942-01	Pass	30.0	-5.2	-	-	-	-
L1731105-02	SVE-3 STACK@50"	498	2.7L Can	08/29/17	248245	L1729942-01	Pass	30.0	-5.9	-	-	-	-

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

Lab Number: L1729942
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/25/17 10:03
Analyst: MB

Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729942
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
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
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1729942

Project Number: CANISTER QC BAT **Report Date:** 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01 Date Collected: 08/24/17 16:00

Client ID: CAN 1740 SHELF 7 Date Received: 08/25/17

Sample Location: Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729942
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

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

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Lab Number: L1729942
Project Number: CANISTER QC BAT
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:

Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1729942

Project Number: CANISTER QC BAT **Report Date:** 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/25/17 10:03
Analyst: MB

Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.020	--	ND	0.053	--		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
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729942
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729942
Report Date: 09/13/17

Air Canister Certification Results

Lab ID: L1729942-01
Client ID: CAN 1740 SHELF 7
Sample Location:
Date Collected: 08/24/17 16:00
Date Received: 08/25/17
Field Prep: Not Specified

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1731105
Report Date: 09/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731105-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1731105-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	LOUDON PLAZA	**Lab Number:**	L1731105
Project Number:	Not Specified	**Report Date:**	09/13/17

GLOSSARY

Acronyms

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).
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.
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.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report

Project Name:	LOUDON PLAZA	**Lab Number:**	L1731105
Project Number:	Not Specified	**Report Date:**	09/13/17

Data Qualifiers

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

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

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

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

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

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

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

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

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.

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

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

Report Format: Data Usability Report

Project Name:	LOUDON PLAZA	**Lab Number:**	L1731105
Project Number:	Not Specified	**Report Date:**	09/13/17

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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: 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**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 9/6/17

ALPHA Job #: L1731105

Client Information

Client: ALPINE ENVIRONMENTAL SERVICES
Address:
Phone: 518-588-2104
Fax:
Email: KimB@ALPINEENV.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Loudon Plaza
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
L1105-01	SVE-2 STACK@50"	8-30-17	14:24	14:25	-30	-4	SOIL GAS	KB	2.7L			X					
02	SVE-3 STACK@50"	8-30-17	1552	1553	-30	-5	SOIL GAS	KB	2.7L			X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	9/5/17 9:54		9/5/17 9:54
	9/7/17 9:54		9/6/17 0115
	9/6/17 0430		9/6/17 430

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

ANALYTICAL REPORT

Lab Number:	L1732063
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	LOUDON PLAZA
Project Number:	Not Specified
Report Date:	09/19/17

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

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

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1732063-01	SVE-1@50"	SOIL_VAPOR	ALBANY, NY	09/08/17 10:56	09/12/17

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

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: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 29, 2017. The canister certification results are provided as an addendum.

L1732063-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: 09/19/17

AIR

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

SAMPLE RESULTS

Lab ID: L1732063-01 D
Client ID: SVE-1@50"
Sample Location: ALBANY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/18/17 20:35
Analyst: MB

Date Collected: 09/08/17 10:56
Date Received: 09/12/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2500	--	ND	12400	--		12500
Chloromethane	ND	2500	--	ND	5160	--		12500
Freon-114	ND	2500	--	ND	17500	--		12500
Vinyl chloride	ND	2500	--	ND	6390	--		12500
1,3-Butadiene	ND	2500	--	ND	5530	--		12500
Bromomethane	ND	2500	--	ND	9710	--		12500
Chloroethane	ND	2500	--	ND	6600	--		12500
Ethanol	ND	62500	--	ND	118000	--		12500
Vinyl bromide	ND	2500	--	ND	10900	--		12500
Acetone	ND	12500	--	ND	29700	--		12500
Trichlorofluoromethane	ND	2500	--	ND	14000	--		12500
Isopropanol	ND	6250	--	ND	15400	--		12500
1,1-Dichloroethene	ND	2500	--	ND	9910	--		12500
Tertiary butyl Alcohol	ND	6250	--	ND	18900	--		12500
Methylene chloride	ND	6250	--	ND	21700	--		12500
3-Chloropropene	ND	2500	--	ND	7830	--		12500
Carbon disulfide	ND	2500	--	ND	7790	--		12500
Freon-113	ND	2500	--	ND	19200	--		12500
trans-1,2-Dichloroethene	ND	2500	--	ND	9910	--		12500
1,1-Dichloroethane	ND	2500	--	ND	10100	--		12500
Methyl tert butyl ether	ND	2500	--	ND	9010	--		12500
2-Butanone	ND	6250	--	ND	18400	--		12500
cis-1,2-Dichloroethene	34000	2500	--	135000	9910	--		12500
Ethyl Acetate	ND	6250	--	ND	22500	--		12500

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

SAMPLE RESULTS

Lab ID: L1732063-01 D
Client ID: SVE-1@50"
Sample Location: ALBANY, NY

Date Collected: 09/08/17 10:56
Date Received: 09/12/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	2500	--	ND	12200	--		12500
Tetrahydrofuran	ND	6250	--	ND	18400	--		12500
1,2-Dichloroethane	ND	2500	--	ND	10100	--		12500
n-Hexane	ND	2500	--	ND	8810	--		12500
1,1,1-Trichloroethane	ND	2500	--	ND	13600	--		12500
Benzene	ND	2500	--	ND	7990	--		12500
Carbon tetrachloride	ND	2500	--	ND	15700	--		12500
Cyclohexane	ND	2500	--	ND	8610	--		12500
1,2-Dichloropropane	ND	2500	--	ND	11600	--		12500
Bromodichloromethane	ND	2500	--	ND	16700	--		12500
1,4-Dioxane	ND	2500	--	ND	9010	--		12500
Trichloroethene	14300	2500	--	76900	13400	--		12500
2,2,4-Trimethylpentane	ND	2500	--	ND	11700	--		12500
Heptane	ND	2500	--	ND	10200	--		12500
cis-1,3-Dichloropropene	ND	2500	--	ND	11300	--		12500
4-Methyl-2-pentanone	ND	6250	--	ND	25600	--		12500
trans-1,3-Dichloropropene	ND	2500	--	ND	11300	--		12500
1,1,2-Trichloroethane	ND	2500	--	ND	13600	--		12500
Toluene	37600	2500	--	142000	9420	--		12500
2-Hexanone	ND	2500	--	ND	10200	--		12500
Dibromochloromethane	ND	2500	--	ND	21300	--		12500
1,2-Dibromoethane	ND	2500	--	ND	19200	--		12500
Tetrachloroethene	1100000	2500	--	7460000	17000	--		12500
Chlorobenzene	ND	2500	--	ND	11500	--		12500
Ethylbenzene	56000	2500	--	243000	10900	--		12500
p/m-Xylene	195000	5000	--	847000	21700	--		12500
Bromoform	ND	2500	--	ND	25800	--		12500
Styrene	ND	2500	--	ND	10600	--		12500

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

SAMPLE RESULTS

Lab ID: L1732063-01 D
Client ID: SVE-1@50"
Sample Location: ALBANY, NY

Date Collected: 09/08/17 10:56
Date Received: 09/12/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	2500	--	ND	17200	--		12500
o-Xylene	44000	2500	--	191000	10900	--		12500
4-Ethyltoluene	ND	2500	--	ND	12300	--		12500
1,3,5-Trimethylbenzene	ND	2500	--	ND	12300	--		12500
1,2,4-Trimethylbenzene	5820	2500	--	28600	12300	--		12500
Benzyl chloride	ND	2500	--	ND	12900	--		12500
1,3-Dichlorobenzene	ND	2500	--	ND	15000	--		12500
1,4-Dichlorobenzene	ND	2500	--	ND	15000	--		12500
1,2-Dichlorobenzene	ND	2500	--	ND	15000	--		12500
1,2,4-Trichlorobenzene	ND	2500	--	ND	18600	--		12500
Hexachlorobutadiene	ND	2500	--	ND	26700	--		12500

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1732063
Report Date: 09/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/18/17 12:06

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1042855-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: LOUDON PLAZA
Project Number: Not Specified
Lab Number: L1732063
Report Date: 09/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/18/17 12:06

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1042855-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/18/17 12:06

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1042855-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1732063

Report Date: 09/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1042855-3								
Chlorodifluoromethane	86		-		70-130	-		
Propylene	106		-		70-130	-		
Propane	92		-		70-130	-		
Dichlorodifluoromethane	79		-		70-130	-		
Chloromethane	99		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98		-		70-130	-		
Methanol	89		-		70-130	-		
Vinyl chloride	96		-		70-130	-		
1,3-Butadiene	103		-		70-130	-		
Butane	86		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethyl Alcohol	91		-		70-130	-		
Dichlorofluoromethane	90		-		70-130	-		
Vinyl bromide	93		-		70-130	-		
Acrolein	90		-		70-130	-		
Acetone	103		-		70-130	-		
Acetonitrile	90		-		70-130	-		
Trichlorofluoromethane	98		-		70-130	-		
iso-Propyl Alcohol	104		-		70-130	-		
Acrylonitrile	92		-		70-130	-		
Pentane	88		-		70-130	-		
Ethyl ether	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1732063

Report Date: 09/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1042855-3								
1,1-Dichloroethene	97		-		70-130	-		
tert-Butyl Alcohol	87		-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	95		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
Vinyl acetate	113		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	88		-		70-130	-		
2,2-Dichloropropane	86		-		70-130	-		
1,2-Dichloroethane	94		-		70-130	-		
n-Hexane	102		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		
Ethyl-Tert-Butyl-Ether	94		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
1,1-Dichloropropene	95		-		70-130	-		
Benzene	99		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1042855-3								
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	103		-		70-130	-		
Tertiary-Amyl Methyl Ether	89		-		70-130	-		
Dibromomethane	99		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	106		-		70-130	-		
Methyl Methacrylate	126		-		70-130	-		
Heptane	108		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	112		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	90		-		70-130	-		
1,3-Dichloropropane	86		-		70-130	-		
2-Hexanone	102		-		70-130	-		
Dibromochloromethane	97		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		
Butyl Acetate	88		-		70-130	-		
Octane	84		-		70-130	-		
Tetrachloroethene	85		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1732063

Report Date: 09/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1042855-3								
1,1,1,2-Tetrachloroethane	86		-		70-130	-		
Chlorobenzene	90		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	93		-		70-130	-		
Bromoform	95		-		70-130	-		
Styrene	92		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	98		-		70-130	-		
1,2,3-Trichloropropane	88		-		70-130	-		
Nonane (C9)	92		-		70-130	-		
Isopropylbenzene	87		-		70-130	-		
Bromobenzene	88		-		70-130	-		
o-Chlorotoluene	84		-		70-130	-		
n-Propylbenzene	85		-		70-130	-		
p-Chlorotoluene	87		-		70-130	-		
4-Ethyltoluene	91		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
tert-Butylbenzene	88		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Decane (C10)	92		-		70-130	-		
Benzyl chloride	102		-		70-130	-		
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LOUDON PLAZA

Project Number: Not Specified

Lab Number: L1732063

Report Date: 09/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1042855-3								
sec-Butylbenzene	88		-		70-130	-		
p-Isopropyltoluene	81		-		70-130	-		
1,2-Dichlorobenzene	90		-		70-130	-		
n-Butylbenzene	93		-		70-130	-		
1,2-Dibromo-3-chloropropane	92		-		70-130	-		
Undecane	98		-		70-130	-		
Dodecane (C12)	119		-		70-130	-		
1,2,4-Trichlorobenzene	98		-		70-130	-		
Naphthalene	90		-		70-130	-		
1,2,3-Trichlorobenzene	86		-		70-130	-		
Hexachlorobutadiene	89		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1042855-5 QC Sample: L1732228-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.313	0.289	ppbV	8		25
Chloromethane	0.521	0.537	ppbV	3		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	431	464	ppbV	7		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	10.8	11.6	ppbV	7		25
Trichlorofluoromethane	0.272	0.273	ppbV	0		25
iso-Propyl Alcohol	2.98	3.16	ppbV	6		25
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.734	0.735	ppbV	0		25
Ethyl Acetate	2.19	2.28	ppbV	4		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1042855-5 QC Sample: L1732228-01 Client ID: DUP Sample						
Chloroform	0.241	0.259	ppbV	7		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	0.331	0.346	ppbV	4		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	0.772	0.859	ppbV	11		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: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1042855-5 QC Sample: L1732228-01 Client ID: DUP Sample						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	0.202	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

Project Name: LOUDON PLAZA

Lab Number: L1732063

Project Number:

Report Date: 09/19/17

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
L1732063-01	SVE-1@50"	244	2.7L Can	08/29/17	248245	L1729840-01	Pass	29.9	-5.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/24/17 17:55
Analyst: MB

Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
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
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1729840

Project Number: CANISTER QC BAT **Report Date:** 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01 Date Collected: 08/23/17 16:00

Client ID: CAN 250 SHELF 1 Date Received: 08/24/17

Sample Location: Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/24/17 17:55
Analyst: MB

Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.020	--	ND	0.053	--		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
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

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

Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:

Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1729840
Report Date: 09/19/17

Air Canister Certification Results

Lab ID: L1729840-01
Client ID: CAN 250 SHELF 1
Sample Location:
Date Collected: 08/23/17 16:00
Date Received: 08/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
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	96		60-140
chlorobenzene-d5	94		60-140

Project Name: LOUDON PLAZA
Project Number: Not Specified

Lab Number: L1732063
Report Date: 09/19/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1732063-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

Container Comments

L1732063-01A Can#244

*Values in parentheses indicate holding time in days

Project Name:	LOUDON PLAZA	**Lab Number:**	L1732063
Project Number:	Not Specified	**Report Date:**	09/19/17

GLOSSARY

Acronyms

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).
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.
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.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report

Project Name:	LOUDON PLAZA	**Lab Number:**	L1732063
Project Number:	Not Specified	**Report Date:**	09/19/17

Data Qualifiers

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

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

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

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

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

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

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

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

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.

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

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

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: 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**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 9/13/17

ALPHA Job #: L1732063

Client Information

Client: Alpine Env. Services
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: KimB@AlpineEnv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Loudon Plaza
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subtract Non-petroleum HCs) ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
2063-01	SVE-1@50"	9-8-17	10:55	10:56	-30	-5	SOIL GAS	KB	2.7L			X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	9/14/17 9:48	AAL	10:30 9-12-17
	9-12-17 10:20		9/13/17 0155
	9/13/17 0515		9/13/17 0515

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

ANALYTICAL REPORT

Lab Number:	L1917459
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	05/02/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917459-01	350 STACK EFF	SOIL_VAPOR	ALBANY, NY	04/26/19 11:40	04/26/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 19, 2019. The canister certification results are provided as an addendum.

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: 05/02/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 04/30/19 19:41
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	0.226	0.200	--	0.467	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.92	1.00	--	4.56	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	1.18	0.500	--	3.48	1.47	--		1
cis-1,2-Dichloroethene	0.493	0.200	--	1.95	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.18	0.500	--	6.43	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	0.388	0.200	--	1.46	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	3.31	0.200	--	22.4	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

SAMPLE RESULTS

Lab ID: L1917459-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 04/26/19 11:40
Date Received: 04/26/19
Field Prep: Not Specified

Sample Depth:

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 04/30/19 14:55

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1232003-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1917459

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
Propylene	88		-		70-130	-		
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	87		-		70-130	-		
Freon-114	89		-		70-130	-		
Vinyl chloride	78		-		70-130	-		
1,3-Butadiene	89		-		70-130	-		
Bromomethane	76		-		70-130	-		
Chloroethane	76		-		70-130	-		
Ethanol	92		-		40-160	-		
Vinyl bromide	77		-		70-130	-		
Acetone	76		-		40-160	-		
Trichlorofluoromethane	94		-		70-130	-		
Isopropanol	83		-		40-160	-		
1,1-Dichloroethene	84		-		70-130	-		
Tertiary butyl Alcohol	74		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	81		-		70-130	-		
Freon-113	82		-		70-130	-		
trans-1,2-Dichloroethene	74		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Vinyl acetate	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
2-Butanone	103		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
Ethyl Acetate	91		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	94		-		70-130	-		
1,1,1-Trichloroethane	117		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	**133**	Q	-		70-130	-		
Cyclohexane	94		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	96		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	118		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	110		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	91		-		70-130	-		
2-Hexanone	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1917459

Report Date: 05/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1232003-3								
Dibromochloromethane	116		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	97		-		70-130	-		
Bromoform	120		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	100		-		70-130	-		
4-Ethyltoluene	98		-		70-130	-		
1,3,5-Trimethylbenzene	96		-		70-130	-		
1,2,4-Trimethylbenzene	100		-		70-130	-		
Benzyl chloride	**134**	Q	-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Hexachlorobutadiene	93		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	0.226	0.229	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	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	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	1.92	1.93	ppbV	1		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
2-Butanone	1.18	1.18	ppbV	0		25
cis-1,2-Dichloroethene	0.493	0.488	ppbV	1		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	2.18	2.09	ppbV	4		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	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
Trichloroethene	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1232003-5 QC Sample: L1917459-01 Client ID: 350 STACK EFF						
Toluene	0.388	0.351	ppbV	10		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	3.31	3.35	ppbV	1		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
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

Project Name: 350 NORTHERN BLVD

Lab Number: L1917459

Project Number:

Report Date: 05/02/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1917459-01	350 STACK EFF	544	2.7L Can	04/19/19	290168	L1915401-02	Pass	-29.7	-10.0	-	-	-	-

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

Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/17/19 21:54
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/19 21:52
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/02/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1917459
Report Date: 05/02/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1917459-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1917459
Project Number:	Not Specified	**Report Date:**	05/02/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1917459
Report Date: 05/02/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 4/27/19

ALPHA Job #: L1917459

Client Information

Client: ALPINE ENV. SERVICES
Address: 438 New Karner Rd
ALBANY NY 12205
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN Mark Schnitzer
AND Accts Rec.

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
917459-01	350 Stack Eff	4/26	11:39	11:40	-30	-10	SG	KB	2.7L	544	—	X					

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Jim Corley AAL	4/26/19 1330	Jim Corley AAL	4/26/19 1330
	4/26/19 1335		04/26/19 1335
	04/27/19 0000		4/27/19 0610

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

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

ANALYTICAL REPORT

Lab Number:	L1918575
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	05/09/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1918575-01	350 STACK SVE	SOIL_VAPOR	ALBANY, NY	05/03/19 09:17	05/03/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1918575
Project Number:	Not Specified	**Report Date:**	05/09/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1918575
Project Number:	Not Specified	**Report Date:**	05/09/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 19, 2019. The canister certification results are provided as an addendum.

The WG1234587-3 LCS recoveries for 2-hexanone (134%), dibromochloromethane (138%) and bromoform (149%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 05/09/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918575-01
Client ID: 350 STACK SVE
Sample Location: ALBANY, NY

Date Collected: 05/03/19 09:17
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/08/19 01:03
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.536	0.200	--	2.65	0.989	--		1
Chloromethane	0.253	0.200	--	0.522	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	4.63	0.200	--	11.8	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
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.27	1.00	--	3.02	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.775	0.500	--	2.29	1.47	--		1
cis-1,2-Dichloroethene	2.05	0.200	--	8.13	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918575-01
Client ID: 350 STACK SVE
Sample Location: ALBANY, NY

Date Collected: 05/03/19 09:17
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.20	0.500	--	3.54	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.480	0.200	--	2.58	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	0.282	0.200	--	1.06	0.754	--		1
1,2-Dichloroethene (total)	2.05	0.200	--	8.13	0.793	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

SAMPLE RESULTS

Lab ID: L1918575-01
Client ID: 350 STACK SVE
Sample Location: ALBANY, NY

Date Collected: 05/03/19 09:17
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	21.5	0.200	--	146	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
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	85		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1918575
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/07/19 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1234587-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1918575
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/07/19 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1234587-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1918575
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/07/19 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1234587-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1918575
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/07/19 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1234587-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1918575
Report Date: 05/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/07/19 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1234587-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1918575

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1234587-3								
Chlorodifluoromethane	86		-		70-130	-		
Propylene	129		-		70-130	-		
Propane	84		-		70-130	-		
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	112		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	101		-		70-130	-		
Methanol	76		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Butane	117		-		70-130	-		
Bromomethane	95		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethyl Alcohol	70		-		40-160	-		
Dichlorofluoromethane	91		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acrolein	81		-		70-130	-		
Acetone	85		-		40-160	-		
Acetonitrile	97		-		70-130	-		
Trichlorofluoromethane	81		-		70-130	-		
iso-Propyl Alcohol	102		-		40-160	-		
Acrylonitrile	92		-		70-130	-		
Pentane	116		-		70-130	-		
Ethyl ether	82		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1918575

Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1234587-3								
1,1-Dichloroethene	88		-		70-130	-		
tert-Butyl Alcohol	70		-		70-130	-		
Methylene chloride	115		-		70-130	-		
3-Chloropropene	117		-		70-130	-		
Carbon disulfide	103		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		-		70-130	-		
trans-1,2-Dichloroethene	88		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
Vinyl acetate	127		-		70-130	-		
2-Butanone	120		-		70-130	-		
cis-1,2-Dichloroethene	94		-		70-130	-		
Ethyl Acetate	110		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
2,2-Dichloropropane	74		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		
n-Hexane	93		-		70-130	-		
Isopropyl Ether	84		-		70-130	-		
Ethyl-Tert-Butyl-Ether	76		-		70-130	-		
1,2-Dichloroethene (total)	91		-			-		
1,2-Dichloroethene (total)	91		-			-		
1,1,1-Trichloroethane	96		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1234587-3								
1,1-Dichloropropene	99		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	108		-		70-130	-		
Cyclohexane	95		-		70-130	-		
Tertiary-Amyl Methyl Ether	83		-		70-130	-		
Dibromomethane	95		-		70-130	-		
1,2-Dichloropropane	110		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Methyl Methacrylate	88		-		40-160	-		
Heptane	124		-		70-130	-		
cis-1,3-Dichloropropene	107		-		70-130	-		
4-Methyl-2-pentanone	121		-		70-130	-		
trans-1,3-Dichloropropene	89		-		70-130	-		
1,1,2-Trichloroethane	110		-		70-130	-		
Toluene	116		-		70-130	-		
1,3-Dichloropropane	108		-		70-130	-		
2-Hexanone	**134**	Q	-		70-130	-		
Dibromochloromethane	**138**	Q	-		70-130	-		
1,2-Dibromoethane	122		-		70-130	-		
Butyl Acetate	128		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1234587-3								
Octane	101		-		70-130	-		
Tetrachloroethene	113		-		70-130	-		
1,1,1,2-Tetrachloroethane	125		-		70-130	-		
Chlorobenzene	115		-		70-130	-		
Ethylbenzene	119		-		70-130	-		
p/m-Xylene	118		-		70-130	-		
Bromoform	**149**	Q	-		70-130	-		
Styrene	119		-		70-130	-		
1,1,2,2-Tetrachloroethane	119		-		70-130	-		
o-Xylene	122		-		70-130	-		
1,2,3-Trichloropropane	109		-		70-130	-		
Nonane (C9)	127		-		70-130	-		
Isopropylbenzene	114		-		70-130	-		
Bromobenzene	105		-		70-130	-		
o-Chlorotoluene	106		-		70-130	-		
n-Propylbenzene	106		-		70-130	-		
p-Chlorotoluene	107		-		70-130	-		
4-Ethyltoluene	117		-		70-130	-		
1,3,5-Trimethylbenzene	121		-		70-130	-		
tert-Butylbenzene	107		-		70-130	-		
1,2,4-Trimethylbenzene	124		-		70-130	-		
Decane (C10)	109		-		70-130	-		
Benzyl chloride	120		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1234587-3								
1,3-Dichlorobenzene	116		-		70-130	-		
1,4-Dichlorobenzene	116		-		70-130	-		
sec-Butylbenzene	113		-		70-130	-		
p-Isopropyltoluene	98		-		70-130	-		
1,2-Dichlorobenzene	121		-		70-130	-		
n-Butylbenzene	118		-		70-130	-		
1,2-Dibromo-3-chloropropane	120		-		70-130	-		
Undecane	108		-		70-130	-		
Dodecane (C12)	96		-		70-130	-		
1,2,4-Trichlorobenzene	107		-		70-130	-		
Naphthalene	98		-		70-130	-		
1,2,3-Trichlorobenzene	98		-		70-130	-		
Hexachlorobutadiene	120		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1918575

Project Number:

Report Date: 05/09/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1918575-01	350 STACK SVE	538	2.7L Can	04/19/19	290168	L1915401-02	Pass	-29.7	-3.9	-	-	-	-

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

Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/17/19 21:54
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

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

Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	92		60-140

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

Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/19 21:52
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/09/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1918575
Report Date: 05/09/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918575-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1918575
Project Number:	Not Specified	**Report Date:**	05/09/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1918575
Project Number:	Not Specified	**Report Date:**	05/09/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 5/3/19

ALPHA Job #: L1918575

Client Information

Client: Alpine Environmental Services
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: KimB@AlpineEnv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:
Attn Mack Schnitzer

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
8575.01	350 Stack SVE	5/3/19	9:16	9:17	-30	-5	SG	KB	3L	538		X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
Robert Hains	5/1/19 11:01	Robert Hains AAL	5-1-19 11:01
H. Hicks	5-1-19 13:45	H. Hicks	5-3-19 13:45
	5-3-19 1640		5/3/19 1640

ANALYTICAL REPORT

Lab Number:	L1919819
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	05/29/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1919819-01	350 NORTHERN STACK	SOIL_VAPOR	ALBANY, NY	05/10/19 13:32	05/10/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1919819
Project Number:	Not Specified	**Report Date:**	05/29/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1919819
Project Number:	Not Specified	**Report Date:**	05/29/19

Case Narrative (continued)

Report Revision

May 29, 2019: This report replaces the one previously issued on May 17, 2019. The report has been amended to correct the collection date/time at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on April 19, 2019. The canister certification results are provided as an addendum.

L1919819-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: 05/29/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

SAMPLE RESULTS

Lab ID: L1919819-01 D
Client ID: 350 NORTHERN STACK
Sample Location: ALBANY, NY

Date Collected: 05/10/19 13:32
Date Received: 05/10/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/16/19 22:58
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.640	0.400	--	3.16	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	5.95	0.400	--	15.2	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethyl Alcohol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	ND	2.00	--	ND	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
iso-Propyl Alcohol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
tert-Butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	ND	1.00	--	ND	2.95	--		2
cis-1,2-Dichloroethene	3.29	0.400	--	13.0	1.59	--		2

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

SAMPLE RESULTS

Lab ID: L1919819-01 D
Client ID: 350 NORTHERN STACK
Sample Location: ALBANY, NY

Date Collected: 05/10/19 13:32
Date Received: 05/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	ND	0.400	--	ND	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	ND	0.400	--	ND	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
Xylene (Total)	ND	0.400	--	ND	1.74	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	1.90	0.400	--	10.2	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	ND	0.400	--	ND	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	ND	0.400	--	ND	1.51	--		2
1,2-Dichloroethene (total)	3.29	0.400	--	13.0	1.59	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,3-Dichloropropene, Total	ND	0.400	--	ND	1.82	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

SAMPLE RESULTS

Lab ID: L1919819-01 D
Client ID: 350 NORTHERN STACK
Sample Location: ALBANY, NY

Date Collected: 05/10/19 13:32
Date Received: 05/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	154	0.400	--	1040	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	ND	0.400	--	ND	1.74	--		2
p/m-Xylene	ND	0.800	--	ND	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	ND	0.400	--	ND	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/16/19 16:36

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1238056-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/16/19 16:36

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1238056-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/16/19 16:36

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1238056-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/16/19 16:36

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1238056-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/16/19 16:36

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1238056-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1919819

Report Date: 05/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1238056-3								
Chlorodifluoromethane	90		-		70-130	-		
Propylene	105		-		70-130	-		
Propane	94		-		70-130	-		
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	94		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98		-		70-130	-		
Methanol	97		-		70-130	-		
Vinyl chloride	96		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	88		-		70-130	-		
Bromomethane	95		-		70-130	-		
Chloroethane	95		-		70-130	-		
Ethyl Alcohol	97		-		40-160	-		
Dichlorofluoromethane	83		-		70-130	-		
Vinyl bromide	97		-		70-130	-		
Acrolein	89		-		70-130	-		
Acetone	74		-		40-160	-		
Acetonitrile	97		-		70-130	-		
Trichlorofluoromethane	90		-		70-130	-		
iso-Propyl Alcohol	84		-		40-160	-		
Acrylonitrile	95		-		70-130	-		
Pentane	91		-		70-130	-		
Ethyl ether	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1919819

Report Date: 05/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1238056-3								
1,1-Dichloroethene	98		-		70-130	-		
tert-Butyl Alcohol	99		-		70-130	-		
Methylene chloride	101		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	95		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		-		70-130	-		
trans-1,2-Dichloroethene	100		-		70-130	-		
1,1-Dichloroethane	101		-		70-130	-		
Methyl tert butyl ether	106		-		70-130	-		
Vinyl acetate	107		-		70-130	-		
2-Butanone	105		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		
Ethyl Acetate	109		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	105		-		70-130	-		
2,2-Dichloropropane	93		-		70-130	-		
1,2-Dichloroethane	94		-		70-130	-		
n-Hexane	106		-		70-130	-		
Isopropyl Ether	100		-		70-130	-		
Ethyl-Tert-Butyl-Ether	97		-		70-130	-		
1,2-Dichloroethene (total)	102		-			-		
1,2-Dichloroethene (total)	102		-			-		
1,1,1-Trichloroethane	100		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1238056-3								
1,1-Dichloropropene	104		-		70-130	-		
Benzene	107		-		70-130	-		
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	107		-		70-130	-		
Tertiary-Amyl Methyl Ether	102		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	107		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	111		-		70-130	-		
Trichloroethene	108		-		70-130	-		
2,2,4-Trimethylpentane	109		-		70-130	-		
Methyl Methacrylate	74		-		40-160	-		
Heptane	109		-		70-130	-		
cis-1,3-Dichloropropene	116		-		70-130	-		
4-Methyl-2-pentanone	112		-		70-130	-		
trans-1,3-Dichloropropene	100		-		70-130	-		
1,1,2-Trichloroethane	110		-		70-130	-		
Toluene	109		-		70-130	-		
1,3-Dichloropropane	104		-		70-130	-		
2-Hexanone	128		-		70-130	-		
Dibromochloromethane	123		-		70-130	-		
1,2-Dibromoethane	114		-		70-130	-		
Butyl Acetate	116		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1919819

Report Date: 05/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1238056-3								
Octane	102		-		70-130	-		
Tetrachloroethene	111		-		70-130	-		
1,1,1,2-Tetrachloroethane	106		-		70-130	-		
Chlorobenzene	113		-		70-130	-		
Ethylbenzene	113		-		70-130	-		
p/m-Xylene	110		-		70-130	-		
Bromoform	129		-		70-130	-		
Styrene	115		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	112		-		70-130	-		
1,2,3-Trichloropropane	105		-		70-130	-		
Nonane (C9)	104		-		70-130	-		
Isopropylbenzene	110		-		70-130	-		
Bromobenzene	106		-		70-130	-		
o-Chlorotoluene	100		-		70-130	-		
n-Propylbenzene	103		-		70-130	-		
p-Chlorotoluene	102		-		70-130	-		
4-Ethyltoluene	112		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		
tert-Butylbenzene	104		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Decane (C10)	103		-		70-130	-		
Benzyl chloride	118		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1919819

Report Date: 05/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1238056-3								
1,3-Dichlorobenzene	115		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
sec-Butylbenzene	107		-		70-130	-		
p-Isopropyltoluene	96		-		70-130	-		
1,2-Dichlorobenzene	113		-		70-130	-		
n-Butylbenzene	108		-		70-130	-		
1,2-Dibromo-3-chloropropane	107		-		70-130	-		
Undecane	104		-		70-130	-		
Dodecane (C12)	101		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	89		-		70-130	-		
1,2,3-Trichlorobenzene	98		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1919819

Project Number:

Report Date: 05/29/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1919819-01	350 NORTHERN STACK	2597	2.7L Can	04/19/19	290168	L1915401-02	Pass	-29.6	-2.8	-	-	-	-

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/17/19 21:54
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	92		60-140

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/19 21:52
Analyst: TS

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

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

Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/29/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1919819
Report Date: 05/29/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1919819-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1919819
Project Number:	Not Specified	**Report Date:**	05/29/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1919819
Project Number:	Not Specified	**Report Date:**	05/29/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1919819
Report Date: 05/29/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 5/11/19

ALPHA Job #: L1919819

Client Information

Client: ALPINE ENVIRONMENTAL SERVICES
Address: 438 New Karner Rd
ALBANY NY 12205
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (subset Non-petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
19819.01	350 Northern Stack	5/10/19	1331	1332	-30	-5	SG	KB	2.7	2597	—	X						

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	5/10/19 1612	ARC	5/10/19 1612
	5/10/19 1615		5/11/19 0825
			5/11/19 0600

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

Form No: 101-02 Rev: (26-Sep-15)

ANALYTICAL REPORT

Lab Number:	L1921178
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	05/28/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1921178-01	350 N STACK	SOIL_VAPOR	ALBANY, NY	05/20/19 12:30	05/20/19
L1921178-02	SVE-1	SOIL_VAPOR	ALBANY, NY	05/20/19 12:45	05/20/19
L1921178-03	SVE-2	SOIL_VAPOR	ALBANY, NY	05/20/19 12:52	05/20/19
L1921178-04	SVE-3	SOIL_VAPOR	ALBANY, NY	05/20/19 13:00	05/20/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1921178
Project Number:	Not Specified	**Report Date:**	05/28/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1921178
Project Number:	Not Specified	**Report Date:**	05/28/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 16, 2019. The canister certification results are provided as an addendum.

L1921178-01 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 05/28/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-01 D
Client ID: 350 N STACK
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:30
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/24/19 23:37
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.798	0.500	--	3.95	2.47	--		2.5
Chloromethane	ND	0.500	--	ND	1.03	--		2.5
Freon-114	ND	0.500	--	ND	3.49	--		2.5
Vinyl chloride	6.37	0.500	--	16.3	1.28	--		2.5
1,3-Butadiene	ND	0.500	--	ND	1.11	--		2.5
Bromomethane	ND	0.500	--	ND	1.94	--		2.5
Chloroethane	ND	0.500	--	ND	1.32	--		2.5
Ethanol	17.6	12.5	--	33.2	23.6	--		2.5
Vinyl bromide	ND	0.500	--	ND	2.19	--		2.5
Acetone	ND	2.50	--	ND	5.94	--		2.5
Trichlorofluoromethane	ND	0.500	--	ND	2.81	--		2.5
Isopropanol	ND	1.25	--	ND	3.07	--		2.5
1,1-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
Tertiary butyl Alcohol	ND	1.25	--	ND	3.79	--		2.5
Methylene chloride	ND	1.25	--	ND	4.34	--		2.5
3-Chloropropene	ND	0.500	--	ND	1.57	--		2.5
Carbon disulfide	ND	0.500	--	ND	1.56	--		2.5
Freon-113	ND	0.500	--	ND	3.83	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
Methyl tert butyl ether	ND	0.500	--	ND	1.80	--		2.5
2-Butanone	ND	1.25	--	ND	3.69	--		2.5
cis-1,2-Dichloroethene	2.32	0.500	--	9.20	1.98	--		2.5

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-01 D
Client ID: 350 N STACK
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:30
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.25	--	ND	4.50	--		2.5
Chloroform	ND	0.500	--	ND	2.44	--		2.5
Tetrahydrofuran	ND	1.25	--	ND	3.69	--		2.5
1,2-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
n-Hexane	ND	0.500	--	ND	1.76	--		2.5
1,1,1-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Benzene	ND	0.500	--	ND	1.60	--		2.5
Carbon tetrachloride	ND	0.500	--	ND	3.15	--		2.5
Cyclohexane	ND	0.500	--	ND	1.72	--		2.5
1,2-Dichloropropane	ND	0.500	--	ND	2.31	--		2.5
Bromodichloromethane	ND	0.500	--	ND	3.35	--		2.5
1,4-Dioxane	ND	0.500	--	ND	1.80	--		2.5
Trichloroethene	1.54	0.500	--	8.28	2.69	--		2.5
2,2,4-Trimethylpentane	ND	0.500	--	ND	2.34	--		2.5
Heptane	ND	0.500	--	ND	2.05	--		2.5
cis-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
4-Methyl-2-pentanone	ND	1.25	--	ND	5.12	--		2.5
trans-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
1,1,2-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Toluene	ND	0.500	--	ND	1.88	--		2.5
2-Hexanone	ND	0.500	--	ND	2.05	--		2.5
Dibromochloromethane	ND	0.500	--	ND	4.26	--		2.5
1,2-Dibromoethane	ND	0.500	--	ND	3.84	--		2.5
Tetrachloroethene	145	0.500	--	983	3.39	--		2.5
Chlorobenzene	ND	0.500	--	ND	2.30	--		2.5
Ethylbenzene	ND	0.500	--	ND	2.17	--		2.5

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-01 D
Client ID: 350 N STACK
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:30
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.00	--	ND	4.34	--		2.5
Bromoform	ND	0.500	--	ND	5.17	--		2.5
Styrene	ND	0.500	--	ND	2.13	--		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	--	ND	3.43	--		2.5
o-Xylene	ND	0.500	--	ND	2.17	--		2.5
4-Ethyltoluene	ND	0.500	--	ND	2.46	--		2.5
1,3,5-Trimethylbenzene	ND	0.500	--	ND	2.46	--		2.5
1,2,4-Trimethylbenzene	ND	0.500	--	ND	2.46	--		2.5
Benzyl chloride	ND	0.500	--	ND	2.59	--		2.5
1,3-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,4-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		2.5
Hexachlorobutadiene	ND	0.500	--	ND	5.33	--		2.5

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:45
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/25/19 00:07
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	94.3	--	ND	466	--		471.7
Chloromethane	ND	94.3	--	ND	195	--		471.7
Freon-114	ND	94.3	--	ND	659	--		471.7
Vinyl chloride	ND	94.3	--	ND	241	--		471.7
1,3-Butadiene	ND	94.3	--	ND	209	--		471.7
Bromomethane	ND	94.3	--	ND	366	--		471.7
Chloroethane	ND	94.3	--	ND	249	--		471.7
Ethanol	ND	2360	--	ND	4450	--		471.7
Vinyl bromide	ND	94.3	--	ND	412	--		471.7
Acetone	ND	472	--	ND	1120	--		471.7
Trichlorofluoromethane	ND	94.3	--	ND	530	--		471.7
Isopropanol	ND	236.	--	ND	580	--		471.7
1,1-Dichloroethene	ND	94.3	--	ND	374	--		471.7
Tertiary butyl Alcohol	ND	236.	--	ND	715	--		471.7
Methylene chloride	ND	236	--	ND	820	--		471.7
3-Chloropropene	ND	94.3	--	ND	295	--		471.7
Carbon disulfide	ND	94.3	--	ND	294	--		471.7
Freon-113	ND	94.3	--	ND	723	--		471.7
trans-1,2-Dichloroethene	ND	94.3	--	ND	374	--		471.7
1,1-Dichloroethane	ND	94.3	--	ND	382	--		471.7
Methyl tert butyl ether	ND	94.3	--	ND	340	--		471.7
2-Butanone	ND	236.	--	ND	696	--		471.7
cis-1,2-Dichloroethene	1500	94.3	--	5950	374	--		471.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:45
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	236.	--	ND	850	--		471.7
Chloroform	ND	94.3	--	ND	461	--		471.7
Tetrahydrofuran	ND	236.	--	ND	696	--		471.7
1,2-Dichloroethane	ND	94.3	--	ND	382	--		471.7
n-Hexane	ND	94.3	--	ND	332	--		471.7
1,1,1-Trichloroethane	ND	94.3	--	ND	515	--		471.7
Benzene	ND	94.3	--	ND	301	--		471.7
Carbon tetrachloride	ND	94.3	--	ND	593	--		471.7
Cyclohexane	ND	94.3	--	ND	325	--		471.7
1,2-Dichloropropane	ND	94.3	--	ND	436	--		471.7
Bromodichloromethane	ND	94.3	--	ND	632	--		471.7
1,4-Dioxane	ND	94.3	--	ND	340	--		471.7
Trichloroethene	555	94.3	--	2980	507	--		471.7
2,2,4-Trimethylpentane	ND	94.3	--	ND	440	--		471.7
Heptane	ND	94.3	--	ND	386	--		471.7
cis-1,3-Dichloropropene	ND	94.3	--	ND	428	--		471.7
4-Methyl-2-pentanone	ND	236.	--	ND	967	--		471.7
trans-1,3-Dichloropropene	ND	94.3	--	ND	428	--		471.7
1,1,2-Trichloroethane	ND	94.3	--	ND	515	--		471.7
Toluene	ND	94.3	--	ND	355	--		471.7
2-Hexanone	ND	94.3	--	ND	386	--		471.7
Dibromochloromethane	ND	94.3	--	ND	803	--		471.7
1,2-Dibromoethane	ND	94.3	--	ND	725	--		471.7
Tetrachloroethene	30300	94.3	--	205000	639	--		471.7
Chlorobenzene	ND	94.3	--	ND	434	--		471.7
Ethylbenzene	ND	94.3	--	ND	410	--		471.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:45
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	189.	--	ND	821	--		471.7
Bromoform	ND	94.3	--	ND	975	--		471.7
Styrene	ND	94.3	--	ND	401	--		471.7
1,1,2,2-Tetrachloroethane	ND	94.3	--	ND	648	--		471.7
o-Xylene	ND	94.3	--	ND	410	--		471.7
4-Ethyltoluene	ND	94.3	--	ND	464	--		471.7
1,3,5-Trimethylbenzene	ND	94.3	--	ND	464	--		471.7
1,2,4-Trimethylbenzene	ND	94.3	--	ND	464	--		471.7
Benzyl chloride	ND	94.3	--	ND	488	--		471.7
1,3-Dichlorobenzene	ND	94.3	--	ND	567	--		471.7
1,4-Dichlorobenzene	ND	94.3	--	ND	567	--		471.7
1,2-Dichlorobenzene	ND	94.3	--	ND	567	--		471.7
1,2,4-Trichlorobenzene	ND	94.3	--	ND	700	--		471.7
Hexachlorobutadiene	ND	94.3	--	ND	1010	--		471.7

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:52
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/25/19 00:37
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	66.7	--	ND	330	--		333.3
Chloromethane	ND	66.7	--	ND	138	--		333.3
Freon-114	ND	66.7	--	ND	466	--		333.3
Vinyl chloride	ND	66.7	--	ND	171	--		333.3
1,3-Butadiene	ND	66.7	--	ND	148	--		333.3
Bromomethane	ND	66.7	--	ND	259	--		333.3
Chloroethane	ND	66.7	--	ND	176	--		333.3
Ethanol	ND	1670	--	ND	3150	--		333.3
Vinyl bromide	ND	66.7	--	ND	292	--		333.3
Acetone	ND	333	--	ND	791	--		333.3
Trichlorofluoromethane	ND	66.7	--	ND	375	--		333.3
Isopropanol	ND	167.	--	ND	410	--		333.3
1,1-Dichloroethene	ND	66.7	--	ND	264	--		333.3
Tertiary butyl Alcohol	ND	167.	--	ND	506	--		333.3
Methylene chloride	ND	167	--	ND	580	--		333.3
3-Chloropropene	ND	66.7	--	ND	209	--		333.3
Carbon disulfide	ND	66.7	--	ND	208	--		333.3
Freon-113	ND	66.7	--	ND	511	--		333.3
trans-1,2-Dichloroethene	ND	66.7	--	ND	264	--		333.3
1,1-Dichloroethane	ND	66.7	--	ND	270	--		333.3
Methyl tert butyl ether	ND	66.7	--	ND	240	--		333.3
2-Butanone	ND	167.	--	ND	493	--		333.3
cis-1,2-Dichloroethene	2570	66.7	--	10200	264	--		333.3

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:52
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	167.	--	ND	602	--		333.3
Chloroform	ND	66.7	--	ND	326	--		333.3
Tetrahydrofuran	ND	167.	--	ND	493	--		333.3
1,2-Dichloroethane	ND	66.7	--	ND	270	--		333.3
n-Hexane	ND	66.7	--	ND	235	--		333.3
1,1,1-Trichloroethane	ND	66.7	--	ND	364	--		333.3
Benzene	ND	66.7	--	ND	213	--		333.3
Carbon tetrachloride	ND	66.7	--	ND	420	--		333.3
Cyclohexane	ND	66.7	--	ND	230	--		333.3
1,2-Dichloropropane	ND	66.7	--	ND	308	--		333.3
Bromodichloromethane	ND	66.7	--	ND	447	--		333.3
1,4-Dioxane	ND	66.7	--	ND	240	--		333.3
Trichloroethene	447	66.7	--	2400	358	--		333.3
2,2,4-Trimethylpentane	ND	66.7	--	ND	312	--		333.3
Heptane	ND	66.7	--	ND	273	--		333.3
cis-1,3-Dichloropropene	ND	66.7	--	ND	303	--		333.3
4-Methyl-2-pentanone	ND	167.	--	ND	684	--		333.3
trans-1,3-Dichloropropene	ND	66.7	--	ND	303	--		333.3
1,1,2-Trichloroethane	ND	66.7	--	ND	364	--		333.3
Toluene	ND	66.7	--	ND	251	--		333.3
2-Hexanone	ND	66.7	--	ND	273	--		333.3
Dibromochloromethane	ND	66.7	--	ND	568	--		333.3
1,2-Dibromoethane	ND	66.7	--	ND	513	--		333.3
Tetrachloroethene	20400	66.7	--	138000	452	--		333.3
Chlorobenzene	ND	66.7	--	ND	307	--		333.3
Ethylbenzene	ND	66.7	--	ND	290	--		333.3

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 05/20/19 12:52
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	133.	--	ND	578	--		333.3
Bromoform	ND	66.7	--	ND	690	--		333.3
Styrene	ND	66.7	--	ND	284	--		333.3
1,1,2,2-Tetrachloroethane	ND	66.7	--	ND	458	--		333.3
o-Xylene	ND	66.7	--	ND	290	--		333.3
4-Ethyltoluene	ND	66.7	--	ND	328	--		333.3
1,3,5-Trimethylbenzene	ND	66.7	--	ND	328	--		333.3
1,2,4-Trimethylbenzene	ND	66.7	--	ND	328	--		333.3
Benzyl chloride	ND	66.7	--	ND	345	--		333.3
1,3-Dichlorobenzene	ND	66.7	--	ND	401	--		333.3
1,4-Dichlorobenzene	ND	66.7	--	ND	401	--		333.3
1,2-Dichlorobenzene	ND	66.7	--	ND	401	--		333.3
1,2,4-Trichlorobenzene	ND	66.7	--	ND	495	--		333.3
Hexachlorobutadiene	ND	66.7	--	ND	711	--		333.3

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 05/20/19 13:00
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/25/19 01:07
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	27.0	--	ND	134	--		135.1
Chloromethane	ND	27.0	--	ND	55.8	--		135.1
Freon-114	ND	27.0	--	ND	189	--		135.1
Vinyl chloride	ND	27.0	--	ND	69.0	--		135.1
1,3-Butadiene	ND	27.0	--	ND	59.7	--		135.1
Bromomethane	ND	27.0	--	ND	105	--		135.1
Chloroethane	ND	27.0	--	ND	71.2	--		135.1
Ethanol	ND	676	--	ND	1270	--		135.1
Vinyl bromide	ND	27.0	--	ND	118	--		135.1
Acetone	ND	135	--	ND	321	--		135.1
Trichlorofluoromethane	ND	27.0	--	ND	152	--		135.1
Isopropanol	ND	67.6	--	ND	166	--		135.1
1,1-Dichloroethene	ND	27.0	--	ND	107	--		135.1
Tertiary butyl Alcohol	ND	67.6	--	ND	205	--		135.1
Methylene chloride	ND	67.6	--	ND	235	--		135.1
3-Chloropropene	ND	27.0	--	ND	84.5	--		135.1
Carbon disulfide	ND	27.0	--	ND	84.1	--		135.1
Freon-113	ND	27.0	--	ND	207	--		135.1
trans-1,2-Dichloroethene	50.0	27.0	--	198	107	--		135.1
1,1-Dichloroethane	ND	27.0	--	ND	109	--		135.1
Methyl tert butyl ether	ND	27.0	--	ND	97.3	--		135.1
2-Butanone	ND	67.6	--	ND	199	--		135.1
cis-1,2-Dichloroethene	12000	27.0	--	47600	107	--		135.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 05/20/19 13:00
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	67.6	--	ND	244	--		135.1
Chloroform	ND	27.0	--	ND	132	--		135.1
Tetrahydrofuran	ND	67.6	--	ND	199	--		135.1
1,2-Dichloroethane	ND	27.0	--	ND	109	--		135.1
n-Hexane	ND	27.0	--	ND	95.2	--		135.1
1,1,1-Trichloroethane	ND	27.0	--	ND	147	--		135.1
Benzene	ND	27.0	--	ND	86.3	--		135.1
Carbon tetrachloride	ND	27.0	--	ND	170	--		135.1
Cyclohexane	ND	27.0	--	ND	92.9	--		135.1
1,2-Dichloropropane	ND	27.0	--	ND	125	--		135.1
Bromodichloromethane	ND	27.0	--	ND	181	--		135.1
1,4-Dioxane	ND	27.0	--	ND	97.3	--		135.1
Trichloroethene	2140	27.0	--	11500	145	--		135.1
2,2,4-Trimethylpentane	ND	27.0	--	ND	126	--		135.1
Heptane	ND	27.0	--	ND	111	--		135.1
cis-1,3-Dichloropropene	ND	27.0	--	ND	123	--		135.1
4-Methyl-2-pentanone	ND	67.6	--	ND	277	--		135.1
trans-1,3-Dichloropropene	ND	27.0	--	ND	123	--		135.1
1,1,2-Trichloroethane	ND	27.0	--	ND	147	--		135.1
Toluene	ND	27.0	--	ND	102	--		135.1
2-Hexanone	ND	27.0	--	ND	111	--		135.1
Dibromochloromethane	ND	27.0	--	ND	230	--		135.1
1,2-Dibromoethane	ND	27.0	--	ND	207	--		135.1
Tetrachloroethene	8790	27.0	--	59600	183	--		135.1
Chlorobenzene	ND	27.0	--	ND	124	--		135.1
Ethylbenzene	ND	27.0	--	ND	117	--		135.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

SAMPLE RESULTS

Lab ID: L1921178-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 05/20/19 13:00
Date Received: 05/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	54.0	--	ND	235	--		135.1
Bromoform	ND	27.0	--	ND	279	--		135.1
Styrene	ND	27.0	--	ND	115	--		135.1
1,1,2,2-Tetrachloroethane	ND	27.0	--	ND	185	--		135.1
o-Xylene	ND	27.0	--	ND	117	--		135.1
4-Ethyltoluene	ND	27.0	--	ND	133	--		135.1
1,3,5-Trimethylbenzene	ND	27.0	--	ND	133	--		135.1
1,2,4-Trimethylbenzene	ND	27.0	--	ND	133	--		135.1
Benzyl chloride	ND	27.0	--	ND	140	--		135.1
1,3-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,4-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,2-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,2,4-Trichlorobenzene	ND	27.0	--	ND	200	--		135.1
Hexachlorobutadiene	ND	27.0	--	ND	288	--		135.1

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1921178
Report Date: 05/28/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/24/19 16:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1241085-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1921178
Report Date: 05/28/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/24/19 16:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1241085-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1921178
Report Date: 05/28/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/24/19 16:47

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1241085-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1241085-3								
Propylene	117		-		70-130	-		
Dichlorodifluoromethane	95		-		70-130	-		
Chloromethane	103		-		70-130	-		
Freon-114	97		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	107		-		70-130	-		
Ethanol	83		-		40-160	-		
Vinyl bromide	89		-		70-130	-		
Acetone	80		-		40-160	-		
Trichlorofluoromethane	97		-		70-130	-		
Isopropanol	86		-		40-160	-		
1,1-Dichloroethene	106		-		70-130	-		
Tertiary butyl Alcohol	92		-		70-130	-		
Methylene chloride	110		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	97		-		70-130	-		
Freon-113	97		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	97		-		70-130	-		
Vinyl acetate	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1921178

Report Date: 05/28/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1241085-3								
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	106		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	109		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	111		-		70-130	-		
1,1,1-Trichloroethane	103		-		70-130	-		
Benzene	104		-		70-130	-		
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	111		-		70-130	-		
1,2-Dichloropropane	112		-		70-130	-		
Bromodichloromethane	103		-		70-130	-		
1,4-Dioxane	105		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	112		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	112		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	95		-		70-130	-		
2-Hexanone	108		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1921178

Report Date: 05/28/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1241085-3								
Dibromochloromethane	95		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		
Tetrachloroethene	91		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	89		-		70-130	-		
Styrene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	100		-		70-130	-		
4-Ethyltoluene	96		-		70-130	-		
1,3,5-Trimethylbenzene	96		-		70-130	-		
1,2,4-Trimethylbenzene	100		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	91		-		70-130	-		
1,4-Dichlorobenzene	92		-		70-130	-		
1,2-Dichlorobenzene	91		-		70-130	-		
1,2,4-Trichlorobenzene	94		-		70-130	-		
Hexachlorobutadiene	93		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1921178

Project Number:

Report Date: 05/28/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1921178-01	350 N STACK	241	2.7L Can	04/19/19	290168	L1915401-02	Pass	-29.6	-2.8	-	-	-	-
L1921178-02	SVE-1	333	2.7L Can	05/16/19	292216	L1919535-01	Pass	-29.3	-3.9	-	-	-	-
L1921178-03	SVE-2	506	2.7L Can	05/16/19	292216	L1919535-01	Pass	-29.3	-4.8	-	-	-	-
L1921178-04	SVE-3	2032	2.7L Can	05/16/19	292216	L1919307-01	Pass	-29.3	-4.0	-	-	-	-

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

Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/17/19 21:54
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

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

Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	119		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/20/19 21:52
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1915401
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1915401-02
Client ID: CAN 554 SHELF 14
Sample Location:

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

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	87		60-140

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

Lab Number: L1919307
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/09/19 21:47
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919307

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919307

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919307
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919307

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919307

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/09/19 21:47
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919307

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919307
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919307-01
Client ID: CAN 537 SHELF 8
Sample Location:

Date Collected: 05/08/19 16:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	83		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	82		60-140

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

Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/09/19 23:05
Analyst: TS

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

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

Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919535

Project Number: CANISTER QC BAT **Report Date:** 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/09/19 23:05
Analyst: TS

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

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

Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 05/28/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	82		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1921178
Report Date: 05/28/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1921178-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1921178-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1921178-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1921178-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1921178
Project Number:	Not Specified	**Report Date:**	05/28/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1921178
Project Number:	Not Specified	**Report Date:**	05/28/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

CHAIN OF CUSTODY PAGE 1 OF 1

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

Date Rec'd in Lab: 5/21/19

ALPHA Job #: L1921178

Client Information
Client: ALPINE ENV. SERVICES
Address: 438 New Karner Rd
ALBANY NY
Phone: 518-588-2104
Fax:
Email: KMB@ALPINEENV.COM
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
21178.01	350N STACK	5/20/19	12:29	12:30	-29	-2	SOIL GAS	KB	2.7	241		X					
.02	SVE-1	5/20/19	12:44	12:45	-30	-4	SOIL GAS	KB	2.7	333		X					
.03	SVE-2	5/20/19	12:51	12:52	-30	-3	SOIL GAS	KB	2.7	506		X					
.04	SVE-3	5/20/19	12:59	13:00	-30	-2	SOIL GAS	KB	2.7	2032		X					

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	5/20/19 1456	AAR	5/20/19 1456
AAR	5/20/19 1500		05/21/19 0500
	05/21/19 0600		5/21/19 0600

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

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

ANALYTICAL REPORT

Lab Number:	L1924729
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	06/19/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1924729-01	350 SVE STACK	SOIL_VAPOR	ALBANY, NY	06/07/19 10:35	06/08/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1924729
Project Number:	Not Specified	**Report Date:**	06/19/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1924729
Project Number:	Not Specified	**Report Date:**	06/19/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 16, 2019. The canister certification results are provided as an addendum.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/19/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924729-01
Client ID: 350 SVE STACK
Sample Location: ALBANY, NY

Date Collected: 06/07/19 10:35
Date Received: 06/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/19/19 03:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	0.354	0.200	--	0.731	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.40	1.00	--	22.3	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
cis-1,2-Dichloroethene	3.68	0.200	--	14.6	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924729-01
Client ID: 350 SVE STACK
Sample Location: ALBANY, NY

Date Collected: 06/07/19 10:35
Date Received: 06/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	2.87	0.200	--	9.17	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.648	0.200	--	3.48	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
1,2-Dichloroethene (total)	3.68	0.200	--	14.6	0.793	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	32.6	0.200	--	221	1.36	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924729-01
Client ID: 350 SVE STACK
Sample Location: ALBANY, NY

Date Collected: 06/07/19 10:35
Date Received: 06/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
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	80		60-140
Bromochloromethane	66		60-140
chlorobenzene-d5	86		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

SAMPLE RESULTS

Lab ID: L1924729-01
Client ID: 350 SVE STACK
Sample Location: ALBANY, NY

Date Collected: 06/07/19 10:35
Date Received: 06/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/19/19 03:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	0.513	0.500	--	1.51	1.47	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	80		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 06/18/19 17:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG1250063-4								
2-Butanone	ND	0.500	--	ND	1.47	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/19 16:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1250064-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/19 16:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1250064-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/19 16:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1250064-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/19 16:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1250064-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/18/19 16:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1250064-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1924729

Report Date: 06/19/19

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		Batch: WG1250063-3					
2-Butanone	90		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1250064-3								
Chlorodifluoromethane	92		-		70-130	-		
Propylene	97		-		70-130	-		
Propane	85		-		70-130	-		
Dichlorodifluoromethane	92		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	94		-		70-130	-		
Methanol	78		-		70-130	-		
Vinyl chloride	93		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	83		-		70-130	-		
Bromomethane	92		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethyl Alcohol	93		-		40-160	-		
Dichlorofluoromethane	83		-		70-130	-		
Vinyl bromide	90		-		70-130	-		
Acrolein	89		-		70-130	-		
Acetone	65		-		40-160	-		
Acetonitrile	79		-		70-130	-		
Trichlorofluoromethane	85		-		70-130	-		
iso-Propyl Alcohol	70		-		40-160	-		
Acrylonitrile	86		-		70-130	-		
Pentane	71		-		70-130	-		
Ethyl ether	**68**	Q	-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1924729

Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1250064-3								
1,1-Dichloroethene	91		-		70-130	-		
tert-Butyl Alcohol	91		-		70-130	-		
Methylene chloride	91		-		70-130	-		
3-Chloropropene	86		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	92		-		70-130	-		
trans-1,2-Dichloroethene	85		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
Methyl tert butyl ether	78		-		70-130	-		
Vinyl acetate	78		-		70-130	-		
2-Butanone	**69**	Q	-		70-130	-		
cis-1,2-Dichloroethene	77		-		70-130	-		
Ethyl Acetate	98		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	85		-		70-130	-		
2,2-Dichloropropane	88		-		70-130	-		
1,2-Dichloroethane	84		-		70-130	-		
n-Hexane	103		-		70-130	-		
Isopropyl Ether	92		-		70-130	-		
Ethyl-Tert-Butyl-Ether	92		-		70-130	-		
1,2-Dichloroethene (total)	81		-			-		
1,2-Dichloroethene (total)	81		-			-		
1,1,1-Trichloroethane	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1924729

Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1250064-3								
1,1-Dichloropropene	100		-		70-130	-		
Benzene	100		-		70-130	-		
Carbon tetrachloride	109		-		70-130	-		
Cyclohexane	103		-		70-130	-		
Tertiary-Amyl Methyl Ether	97		-		70-130	-		
Dibromomethane	96		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Methyl Methacrylate	69		-		40-160	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	110		-		70-130	-		
4-Methyl-2-pentanone	102		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	109		-		70-130	-		
Toluene	101		-		70-130	-		
1,3-Dichloropropane	96		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	114		-		70-130	-		
1,2-Dibromoethane	104		-		70-130	-		
Butyl Acetate	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1250064-3								
Octane	93		-		70-130	-		
Tetrachloroethene	105		-		70-130	-		
1,1,1,2-Tetrachloroethane	98		-		70-130	-		
Chlorobenzene	103		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	105		-		70-130	-		
o-Xylene	106		-		70-130	-		
1,2,3-Trichloropropane	96		-		70-130	-		
Nonane (C9)	94		-		70-130	-		
Isopropylbenzene	100		-		70-130	-		
Bromobenzene	96		-		70-130	-		
o-Chlorotoluene	94		-		70-130	-		
n-Propylbenzene	97		-		70-130	-		
p-Chlorotoluene	92		-		70-130	-		
4-Ethyltoluene	102		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Decane (C10)	95		-		70-130	-		
Benzyl chloride	103		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1250064-3								
1,3-Dichlorobenzene	99		-		70-130	-		
1,4-Dichlorobenzene	103		-		70-130	-		
sec-Butylbenzene	107		-		70-130	-		
p-Isopropyltoluene	91		-		70-130	-		
1,2-Dichlorobenzene	103		-		70-130	-		
n-Butylbenzene	100		-		70-130	-		
1,2-Dibromo-3-chloropropane	97		-		70-130	-		
Undecane	96		-		70-130	-		
Dodecane (C12)	94		-		70-130	-		
1,2,4-Trichlorobenzene	113		-		70-130	-		
Naphthalene	81		-		70-130	-		
1,2,3-Trichlorobenzene	95		-		70-130	-		
Hexachlorobutadiene	106		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1924729

Project Number:

Report Date: 06/19/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1924729-01	350 SVE STACK	206	2.7L Can	05/16/19	292216	L1919535-01	Pass	-29.4	3.8	-	-	-	-

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

Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/09/19 23:05
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/09/19 23:05
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 06/19/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	82		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1924729
Report Date: 06/19/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1924729-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1924729
Project Number:	Not Specified	**Report Date:**	06/19/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1924729
Project Number:	Not Specified	**Report Date:**	06/19/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1924729
Report Date: 06/19/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 6/10/19

ALPHA Job #: L1924729

Client Information

Client: Alpine Environmental Ser.
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: kim@alpineenv.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Attn: Mark Schnitzer

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
24729.01	350 SVE STACK	6/7/19	10:34	10:35	-29"	-3"	SOIL GAS	KB		206	X						GRAB SAMPLE

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/8/19 1206	H. Hicks	6-8-19 20:45
H. Hicks	6-8-19 20:45	H. Hicks	6-10-19 12:15
H. Hicks	6-10-19 16:20	DES AAL	6-10-19 16:20

ANALYTICAL REPORT

Lab Number:	L1927526
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	07/01/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1927526-01	SVE-01	SOIL_VAPOR	ALBANY, NY	06/24/19 16:23	06/24/19
L1927526-02	SVE-02	SOIL_VAPOR	ALBANY, NY	06/24/19 16:28	06/24/19
L1927526-03	SVE-03	SOIL_VAPOR	ALBANY, NY	06/24/19 16:35	06/24/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1927526
Project Number:	Not Specified	**Report Date:**	07/01/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1927526
Project Number:	Not Specified	**Report Date:**	07/01/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 21, 2019. The canister certification results are provided as an addendum.

L1927526-01 through -03: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L1927526-02: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The WG1254909-3 LCS recoveries for bromoform (138%), benzyl chloride (141%) and hexachlorobutadiene (137%) are 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: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 07/01/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-01 D
Client ID: SVE-01
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:23
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/19 03:06
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	64.9	--	ND	321	--		324.7
Chloromethane	ND	64.9	--	ND	134	--		324.7
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	64.9	--	ND	454	--		324.7
Vinyl chloride	ND	64.9	--	ND	166	--		324.7
1,3-Butadiene	ND	64.9	--	ND	144	--		324.7
Bromomethane	ND	64.9	--	ND	252	--		324.7
Chloroethane	ND	64.9	--	ND	171	--		324.7
Ethyl Alcohol	ND	1620	--	ND	3050	--		324.7
Vinyl bromide	ND	64.9	--	ND	284	--		324.7
Acetone	ND	325	--	ND	772	--		324.7
Trichlorofluoromethane	ND	64.9	--	ND	365	--		324.7
iso-Propyl Alcohol	ND	162	--	ND	398	--		324.7
1,1-Dichloroethene	ND	64.9	--	ND	257	--		324.7
tert-Butyl Alcohol	ND	162.	--	ND	491	--		324.7
Methylene chloride	ND	162.	--	ND	563	--		324.7
3-Chloropropene	ND	64.9	--	ND	203	--		324.7
Carbon disulfide	ND	64.9	--	ND	202	--		324.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	64.9	--	ND	497	--		324.7
trans-1,2-Dichloroethene	ND	64.9	--	ND	257	--		324.7
1,1-Dichloroethane	ND	64.9	--	ND	263	--		324.7
Methyl tert butyl ether	ND	64.9	--	ND	234	--		324.7
2-Butanone	ND	162.	--	ND	478	--		324.7
cis-1,2-Dichloroethene	679	64.9	--	2690	257	--		324.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-01 D
Client ID: SVE-01
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:23
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	162.	--	ND	584	--		324.7
Chloroform	ND	64.9	--	ND	317	--		324.7
Tetrahydrofuran	ND	162.	--	ND	478	--		324.7
1,2-Dichloroethane	ND	64.9	--	ND	263	--		324.7
n-Hexane	ND	64.9	--	ND	229	--		324.7
1,1,1-Trichloroethane	ND	64.9	--	ND	354	--		324.7
Benzene	ND	64.9	--	ND	207	--		324.7
Carbon tetrachloride	ND	64.9	--	ND	408	--		324.7
Cyclohexane	ND	64.9	--	ND	223	--		324.7
1,2-Dichloropropane	ND	64.9	--	ND	300	--		324.7
Xylene (Total)	ND	64.9	--	ND	282	--		324.7
Bromodichloromethane	ND	64.9	--	ND	435	--		324.7
1,4-Dioxane	ND	64.9	--	ND	234	--		324.7
Trichloroethene	320	64.9	--	1720	349	--		324.7
2,2,4-Trimethylpentane	ND	64.9	--	ND	303	--		324.7
Heptane	ND	64.9	--	ND	266	--		324.7
cis-1,3-Dichloropropene	ND	64.9	--	ND	295	--		324.7
4-Methyl-2-pentanone	ND	162.	--	ND	664	--		324.7
trans-1,3-Dichloropropene	ND	64.9	--	ND	295	--		324.7
1,1,2-Trichloroethane	ND	64.9	--	ND	354	--		324.7
Toluene	ND	64.9	--	ND	245	--		324.7
1,2-Dichloroethene (total)	679	64.9	--	2690	257	--		324.7
2-Hexanone	ND	64.9	--	ND	266	--		324.7
Dibromochloromethane	ND	64.9	--	ND	553	--		324.7
1,3-Dichloropropene, Total	ND	64.9	--	ND	295	--		324.7
1,2-Dibromoethane	ND	64.9	--	ND	499	--		324.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-01 D
Client ID: SVE-01
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:23
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	28700	64.9	--	195000	440	--		324.7
Chlorobenzene	ND	64.9	--	ND	299	--		324.7
Ethylbenzene	ND	64.9	--	ND	282	--		324.7
p/m-Xylene	ND	130.	--	ND	565	--		324.7
Bromoform	ND	64.9	--	ND	671	--		324.7
Styrene	ND	64.9	--	ND	276	--		324.7
1,1,2,2-Tetrachloroethane	ND	64.9	--	ND	446	--		324.7
o-Xylene	ND	64.9	--	ND	282	--		324.7
4-Ethyltoluene	ND	64.9	--	ND	319	--		324.7
1,3,5-Trimethylbenzene	ND	64.9	--	ND	319	--		324.7
1,2,4-Trimethylbenzene	ND	64.9	--	ND	319	--		324.7
Benzyl chloride	ND	64.9	--	ND	336	--		324.7
1,3-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,4-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,2-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,2,4-Trichlorobenzene	ND	64.9	--	ND	482	--		324.7
Hexachlorobutadiene	ND	64.9	--	ND	692	--		324.7

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-02 D
Client ID: SVE-02
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:28
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/19 03:44
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	19.1	--	ND	94.4	--		95.42
Chloromethane	ND	19.1	--	ND	39.4	--		95.42
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	19.1	--	ND	134	--		95.42
Vinyl chloride	ND	19.1	--	ND	48.8	--		95.42
1,3-Butadiene	ND	19.1	--	ND	42.3	--		95.42
Bromomethane	ND	19.1	--	ND	74.2	--		95.42
Chloroethane	ND	19.1	--	ND	50.4	--		95.42
Ethyl Alcohol	ND	477	--	ND	899	--		95.42
Vinyl bromide	ND	19.1	--	ND	83.5	--		95.42
Acetone	ND	95.4	--	ND	227	--		95.42
Trichlorofluoromethane	ND	19.1	--	ND	107	--		95.42
iso-Propyl Alcohol	ND	47.7	--	ND	117	--		95.42
1,1-Dichloroethene	ND	19.1	--	ND	75.7	--		95.42
tert-Butyl Alcohol	ND	47.7	--	ND	145	--		95.42
Methylene chloride	ND	47.7	--	ND	166	--		95.42
3-Chloropropene	ND	19.1	--	ND	59.8	--		95.42
Carbon disulfide	ND	19.1	--	ND	59.5	--		95.42
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	19.1	--	ND	146	--		95.42
trans-1,2-Dichloroethene	ND	19.1	--	ND	75.7	--		95.42
1,1-Dichloroethane	ND	19.1	--	ND	77.3	--		95.42
Methyl tert butyl ether	ND	19.1	--	ND	68.9	--		95.42
2-Butanone	ND	47.7	--	ND	141	--		95.42
cis-1,2-Dichloroethene	753	19.1	--	2990	75.7	--		95.42

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-02 D
Client ID: SVE-02
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:28
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	47.7	--	ND	172	--		95.42
Chloroform	ND	19.1	--	ND	93.3	--		95.42
Tetrahydrofuran	ND	47.7	--	ND	141	--		95.42
1,2-Dichloroethane	ND	19.1	--	ND	77.3	--		95.42
n-Hexane	ND	19.1	--	ND	67.3	--		95.42
1,1,1-Trichloroethane	ND	19.1	--	ND	104	--		95.42
Benzene	ND	19.1	--	ND	61.0	--		95.42
Carbon tetrachloride	ND	19.1	--	ND	120	--		95.42
Cyclohexane	ND	19.1	--	ND	65.7	--		95.42
1,2-Dichloropropane	ND	19.1	--	ND	88.3	--		95.42
Xylene (Total)	ND	19.1	--	ND	83.0	--		95.42
Bromodichloromethane	ND	19.1	--	ND	128	--		95.42
1,4-Dioxane	ND	19.1	--	ND	68.8	--		95.42
Trichloroethene	216	19.1	--	1160	103	--		95.42
2,2,4-Trimethylpentane	ND	19.1	--	ND	89.2	--		95.42
Heptane	ND	19.1	--	ND	78.3	--		95.42
cis-1,3-Dichloropropene	ND	19.1	--	ND	86.7	--		95.42
4-Methyl-2-pentanone	ND	47.7	--	ND	195	--		95.42
trans-1,3-Dichloropropene	ND	19.1	--	ND	86.7	--		95.42
1,1,2-Trichloroethane	ND	19.1	--	ND	104	--		95.42
Toluene	ND	19.1	--	ND	72.0	--		95.42
1,2-Dichloroethene (total)	753	19.1	--	2990	75.7	--		95.42
2-Hexanone	ND	19.1	--	ND	78.3	--		95.42
Dibromochloromethane	ND	19.1	--	ND	163	--		95.42
1,3-Dichloropropene, Total	ND	19.1	--	ND	86.7	--		95.42
1,2-Dibromoethane	ND	19.1	--	ND	147	--		95.42

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-02 D
Client ID: SVE-02
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:28
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	12600	19.1	--	85400	130	--	E	95.42
Chlorobenzene	ND	19.1	--	ND	88.0	--		95.42
Ethylbenzene	ND	19.1	--	ND	83.0	--		95.42
p/m-Xylene	ND	38.2	--	ND	166	--		95.42
Bromoform	ND	19.1	--	ND	197	--		95.42
Styrene	ND	19.1	--	ND	81.3	--		95.42
1,1,2,2-Tetrachloroethane	ND	19.1	--	ND	131	--		95.42
o-Xylene	ND	19.1	--	ND	83.0	--		95.42
4-Ethyltoluene	ND	19.1	--	ND	93.9	--		95.42
1,3,5-Trimethylbenzene	ND	19.1	--	ND	93.9	--		95.42
1,2,4-Trimethylbenzene	ND	19.1	--	ND	93.9	--		95.42
Benzyl chloride	ND	19.1	--	ND	98.9	--		95.42
1,3-Dichlorobenzene	ND	19.1	--	ND	115	--		95.42
1,4-Dichlorobenzene	ND	19.1	--	ND	115	--		95.42
1,2-Dichlorobenzene	ND	19.1	--	ND	115	--		95.42
1,2,4-Trichlorobenzene	ND	19.1	--	ND	142	--		95.42
Hexachlorobutadiene	ND	19.1	--	ND	204	--		95.42

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-02 D2
Client ID: SVE-02
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:28
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/19 08:55
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	12100	35.0	--	82100	237	--		174.8

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-03 D
Client ID: SVE-03
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:35
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/30/19 04:23
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	16.8	--	ND	83.1	--		83.89
Chloromethane	ND	16.8	--	ND	34.7	--		83.89
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	16.8	--	ND	117	--		83.89
Vinyl chloride	ND	16.8	--	ND	42.9	--		83.89
1,3-Butadiene	ND	16.8	--	ND	37.2	--		83.89
Bromomethane	ND	16.8	--	ND	65.2	--		83.89
Chloroethane	ND	16.8	--	ND	44.3	--		83.89
Ethyl Alcohol	ND	419	--	ND	790	--		83.89
Vinyl bromide	ND	16.8	--	ND	73.5	--		83.89
Acetone	ND	83.9	--	ND	199	--		83.89
Trichlorofluoromethane	ND	16.8	--	ND	94.4	--		83.89
iso-Propyl Alcohol	ND	41.9	--	ND	103	--		83.89
1,1-Dichloroethene	ND	16.8	--	ND	66.6	--		83.89
tert-Butyl Alcohol	ND	41.9	--	ND	127	--		83.89
Methylene chloride	ND	41.9	--	ND	146	--		83.89
3-Chloropropene	ND	16.8	--	ND	52.6	--		83.89
Carbon disulfide	ND	16.8	--	ND	52.3	--		83.89
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	16.8	--	ND	129	--		83.89
trans-1,2-Dichloroethene	33.0	16.8	--	131	66.6	--		83.89
1,1-Dichloroethane	ND	16.8	--	ND	68.0	--		83.89
Methyl tert butyl ether	ND	16.8	--	ND	60.6	--		83.89
2-Butanone	ND	41.9	--	ND	124	--		83.89
cis-1,2-Dichloroethene	6120	16.8	--	24300	66.6	--		83.89

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-03 D
Client ID: SVE-03
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:35
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	41.9	--	ND	151	--		83.89
Chloroform	ND	16.8	--	ND	82.0	--		83.89
Tetrahydrofuran	ND	41.9	--	ND	124	--		83.89
1,2-Dichloroethane	ND	16.8	--	ND	68.0	--		83.89
n-Hexane	ND	16.8	--	ND	59.2	--		83.89
1,1,1-Trichloroethane	ND	16.8	--	ND	91.7	--		83.89
Benzene	ND	16.8	--	ND	53.7	--		83.89
Carbon tetrachloride	ND	16.8	--	ND	106	--		83.89
Cyclohexane	ND	16.8	--	ND	57.8	--		83.89
1,2-Dichloropropane	ND	16.8	--	ND	77.6	--		83.89
Xylene (Total)	ND	16.8	--	ND	73.0	--		83.89
Bromodichloromethane	ND	16.8	--	ND	113	--		83.89
1,4-Dioxane	ND	16.8	--	ND	60.5	--		83.89
Trichloroethene	1440	16.8	--	7740	90.3	--		83.89
2,2,4-Trimethylpentane	ND	16.8	--	ND	78.5	--		83.89
Heptane	ND	16.8	--	ND	68.8	--		83.89
cis-1,3-Dichloropropene	ND	16.8	--	ND	76.3	--		83.89
4-Methyl-2-pentanone	ND	41.9	--	ND	172	--		83.89
trans-1,3-Dichloropropene	ND	16.8	--	ND	76.3	--		83.89
1,1,2-Trichloroethane	ND	16.8	--	ND	91.7	--		83.89
Toluene	ND	16.8	--	ND	63.3	--		83.89
1,2-Dichloroethene (total)	6160	16.8	--	24400	66.6	--		83.89
2-Hexanone	ND	16.8	--	ND	68.8	--		83.89
Dibromochloromethane	ND	16.8	--	ND	143	--		83.89
1,3-Dichloropropene, Total	ND	16.8	--	ND	76.3	--		83.89
1,2-Dibromoethane	ND	16.8	--	ND	129	--		83.89

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

SAMPLE RESULTS

Lab ID: L1927526-03 D
Client ID: SVE-03
Sample Location: ALBANY, NY

Date Collected: 06/24/19 16:35
Date Received: 06/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	7770	16.8	--	52700	114	--		83.89
Chlorobenzene	ND	16.8	--	ND	77.4	--		83.89
Ethylbenzene	ND	16.8	--	ND	73.0	--		83.89
p/m-Xylene	ND	33.6	--	ND	146	--		83.89
Bromoform	ND	16.8	--	ND	174	--		83.89
Styrene	ND	16.8	--	ND	71.5	--		83.89
1,1,2,2-Tetrachloroethane	ND	16.8	--	ND	115	--		83.89
o-Xylene	ND	16.8	--	ND	73.0	--		83.89
4-Ethyltoluene	ND	16.8	--	ND	82.6	--		83.89
1,3,5-Trimethylbenzene	ND	16.8	--	ND	82.6	--		83.89
1,2,4-Trimethylbenzene	ND	16.8	--	ND	82.6	--		83.89
Benzyl chloride	ND	16.8	--	ND	87.0	--		83.89
1,3-Dichlorobenzene	ND	16.8	--	ND	101	--		83.89
1,4-Dichlorobenzene	ND	16.8	--	ND	101	--		83.89
1,2-Dichlorobenzene	ND	16.8	--	ND	101	--		83.89
1,2,4-Trichlorobenzene	ND	16.8	--	ND	125	--		83.89
Hexachlorobutadiene	ND	16.8	--	ND	179	--		83.89

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1927526
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/19 17:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1254909-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1927526
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/19 17:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1254909-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1927526
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/19 17:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1254909-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1927526
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/19 17:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1254909-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1927526
Report Date: 07/01/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/29/19 17:23

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1254909-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1254909-3								
Chlorodifluoromethane	86		-		70-130	-		
Propylene	110		-		70-130	-		
Propane	88		-		70-130	-		
Dichlorodifluoromethane	90		-		70-130	-		
Chloromethane	101		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97		-		70-130	-		
Methanol	92		-		70-130	-		
Vinyl chloride	90		-		70-130	-		
1,3-Butadiene	97		-		70-130	-		
Butane	100		-		70-130	-		
Bromomethane	90		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethyl Alcohol	95		-		40-160	-		
Dichlorofluoromethane	95		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	80		-		70-130	-		
Acetone	83		-		40-160	-		
Acetonitrile	96		-		70-130	-		
Trichlorofluoromethane	95		-		70-130	-		
iso-Propyl Alcohol	97		-		40-160	-		
Acrylonitrile	89		-		70-130	-		
Pentane	98		-		70-130	-		
Ethyl ether	83		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1254909-3								
1,1-Dichloroethene	92		-		70-130	-		
tert-Butyl Alcohol	87		-		70-130	-		
Methylene chloride	104		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	104		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
Vinyl acetate	111		-		70-130	-		
2-Butanone	109		-		70-130	-		
cis-1,2-Dichloroethene	95		-		70-130	-		
Ethyl Acetate	104		-		70-130	-		
Chloroform	95		-		70-130	-		
Tetrahydrofuran	111		-		70-130	-		
2,2-Dichloropropane	92		-		70-130	-		
1,2-Dichloroethane	88		-		70-130	-		
n-Hexane	91		-		70-130	-		
Isopropyl Ether	86		-		70-130	-		
Ethyl-Tert-Butyl-Ether	85		-		70-130	-		
1,2-Dichloroethene (total)	94		-			-		
1,2-Dichloroethene (total)	94		-			-		
1,1,1-Trichloroethane	103		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1927526

Report Date: 07/01/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1254909-3								
1,1-Dichloropropene	100		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	111		-		70-130	-		
Cyclohexane	91		-		70-130	-		
Tertiary-Amyl Methyl Ether	97		-		70-130	-		
Dibromomethane	92		-		70-130	-		
1,2-Dichloropropane	104		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	92		-		70-130	-		
Methyl Methacrylate	79		-		40-160	-		
Heptane	111		-		70-130	-		
cis-1,3-Dichloropropene	117		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	100		-		70-130	-		
1,1,2-Trichloroethane	108		-		70-130	-		
Toluene	106		-		70-130	-		
1,3-Dichloropropane	107		-		70-130	-		
2-Hexanone	125		-		70-130	-		
Dibromochloromethane	130		-		70-130	-		
1,2-Dibromoethane	123		-		70-130	-		
Butyl Acetate	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1254909-3								
Octane	95		-		70-130	-		
Tetrachloroethene	111		-		70-130	-		
1,1,1,2-Tetrachloroethane	114		-		70-130	-		
Chlorobenzene	115		-		70-130	-		
Ethylbenzene	110		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	**138**	Q	-		70-130	-		
Styrene	118		-		70-130	-		
1,1,2,2-Tetrachloroethane	117		-		70-130	-		
o-Xylene	111		-		70-130	-		
1,2,3-Trichloropropane	110		-		70-130	-		
Nonane (C9)	113		-		70-130	-		
Isopropylbenzene	113		-		70-130	-		
Bromobenzene	105		-		70-130	-		
o-Chlorotoluene	102		-		70-130	-		
n-Propylbenzene	102		-		70-130	-		
p-Chlorotoluene	103		-		70-130	-		
4-Ethyltoluene	117		-		70-130	-		
1,3,5-Trimethylbenzene	116		-		70-130	-		
tert-Butylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	121		-		70-130	-		
Decane (C10)	102		-		70-130	-		
Benzyl chloride	**141**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1254909-3								
1,3-Dichlorobenzene	124		-		70-130	-		
1,4-Dichlorobenzene	125		-		70-130	-		
sec-Butylbenzene	111		-		70-130	-		
p-Isopropyltoluene	96		-		70-130	-		
1,2-Dichlorobenzene	124		-		70-130	-		
n-Butylbenzene	112		-		70-130	-		
1,2-Dibromo-3-chloropropane	117		-		70-130	-		
Undecane	104		-		70-130	-		
Dodecane (C12)	121		-		70-130	-		
1,2,4-Trichlorobenzene	130		-		70-130	-		
Naphthalene	105		-		70-130	-		
1,2,3-Trichlorobenzene	124		-		70-130	-		
Hexachlorobutadiene	**137**	Q	-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1927526

Project Number:

Report Date: 07/01/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1927526-01	SVE-01	338	2.7L Can	05/16/19	292216	L1919535-01	Pass	-29.3	-6.8	-	-	-	-
L1927526-02	SVE-02	549	2.7L Can	06/21/19	295290	L1926365-02	Pass	-29.2	-10.3	-	-	-	-
L1927526-03	SVE-03	557	2.7L Can	06/21/19	295290	L1926365-02	Pass	-29.1	-4.9	-	-	-	-

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

Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/09/19 23:05
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1919535

Project Number: CANISTER QC BAT **Report Date:** 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/09/19 23:05
Analyst: TS

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

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

Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1919535
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1919535-01
Client ID: CAN 2333 SHELF 5
Sample Location:

Date Collected: 05/09/19 09:00
Date Received: 05/09/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	82		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	80		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/18/19 23:04
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	69		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	80		60-140

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

Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/18/19 23:04
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926365
Report Date: 07/01/19

Air Canister Certification Results

Lab ID: L1926365-02
Client ID: CAN 2372 SHELF 16
Sample Location:

Date Collected: 06/18/19 08:00
Date Received: 06/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	80		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	84		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1927526
Report Date: 07/01/19

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(*)
L1927526-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1927526-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1927526-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1927526
Project Number:	Not Specified	**Report Date:**	07/01/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1927526
Project Number:	Not Specified	**Report Date:**	07/01/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 6/25/19

ALPHA Job #: L1927526

Client Information

Client: Alpine Env Services
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: KimB@AlpineEnv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Attn Mark Schnitzer

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subtract Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
1927526-01	SVE-01	6/24/19	1622	1623	-29	-5	SOIL GAS	KB		338		X					
-02	SVE-02	6/24/19	1627	1628	—	—	SOIL GAS	KB		549		X					
-03	SVE-03	6/24/19	1634	1635	-30	-5	SOIL GAS	KB		557		X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/24/19 1705	AAL	6/24/19 1705
	06/25/19 0600		6/25/19 0615

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

ANALYTICAL REPORT

Lab Number:	L1928382
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	07/15/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1928382-01	350 STACK EFF	SOIL_VAPOR	ALBANY, NY	06/27/19 09:31	06/27/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1928382
Project Number:	Not Specified	**Report Date:**	07/15/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1928382
Project Number:	Not Specified	**Report Date:**	07/15/19

Case Narrative (continued)

Report Revision

July 15, 2019: This report replaces the one previously issued on July 8, 2019. The report has been amended to correct the sample collection date at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on June 25, 2019. The canister certification results are provided as an addendum.

The WG1255926-3 LCS recovery for bromoform (134%) 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: 07/15/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

SAMPLE RESULTS

Lab ID: L1928382-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 06/27/19 09:31
Date Received: 06/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/02/19 22:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.589	0.200	--	2.91	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	1.63	0.200	--	4.17	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
Ethyl Alcohol	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
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.257	0.200	--	1.02	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

SAMPLE RESULTS

Lab ID: L1928382-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 06/27/19 09:31
Date Received: 06/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.18	0.200	--	3.77	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		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
1,2-Dichloroethene (total)	0.257	0.200	--	1.02	0.793	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

SAMPLE RESULTS

Lab ID: L1928382-01
Client ID: 350 STACK EFF
Sample Location: ALBANY, NY

Date Collected: 06/27/19 09:31
Date Received: 06/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	20.1	0.200	--	136	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
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1928382
Report Date: 07/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/02/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1255926-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1928382
Report Date: 07/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/02/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1255926-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1928382
Report Date: 07/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/02/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1255926-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1928382
Report Date: 07/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/02/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1255926-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1928382
Report Date: 07/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/02/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1255926-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1928382

Report Date: 07/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1255926-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	110		-		70-130	-		
Propane	94		-		70-130	-		
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98		-		70-130	-		
Methanol	97		-		70-130	-		
Vinyl chloride	95		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Butane	97		-		70-130	-		
Bromomethane	95		-		70-130	-		
Chloroethane	92		-		70-130	-		
Ethyl Alcohol	88		-		40-160	-		
Dichlorofluoromethane	90		-		70-130	-		
Vinyl bromide	97		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	77		-		40-160	-		
Acetonitrile	90		-		70-130	-		
Trichlorofluoromethane	94		-		70-130	-		
iso-Propyl Alcohol	87		-		40-160	-		
Acrylonitrile	93		-		70-130	-		
Pentane	91		-		70-130	-		
Ethyl ether	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1928382

Report Date: 07/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1255926-3								
1,1-Dichloroethene	95		-		70-130	-		
tert-Butyl Alcohol	89		-		70-130	-		
Methylene chloride	102		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		-		70-130	-		
trans-1,2-Dichloroethene	93		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	98		-		70-130	-		
Vinyl acetate	102		-		70-130	-		
2-Butanone	101		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		
Ethyl Acetate	104		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
2,2-Dichloropropane	91		-		70-130	-		
1,2-Dichloroethane	89		-		70-130	-		
n-Hexane	96		-		70-130	-		
Isopropyl Ether	90		-		70-130	-		
Ethyl-Tert-Butyl-Ether	88		-		70-130	-		
1,2-Dichloroethene (total)	96		-			-		
1,2-Dichloroethene (total)	96		-			-		
1,1,1-Trichloroethane	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1928382

Report Date: 07/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1255926-3								
1,1-Dichloropropene	96		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	112		-		70-130	-		
Cyclohexane	97		-		70-130	-		
Tertiary-Amyl Methyl Ether	91		-		70-130	-		
Dibromomethane	94		-		70-130	-		
1,2-Dichloropropane	100		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl Methacrylate	72		-		40-160	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	112		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	95		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	102		-		70-130	-		
1,3-Dichloropropane	99		-		70-130	-		
2-Hexanone	109		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		
Butyl Acetate	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1928382

Report Date: 07/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1255926-3								
Octane	95		-		70-130	-		
Tetrachloroethene	109		-		70-130	-		
1,1,1,2-Tetrachloroethane	108		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	105		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	**134**	Q	-		70-130	-		
Styrene	108		-		70-130	-		
1,1,2,2-Tetrachloroethane	117		-		70-130	-		
o-Xylene	105		-		70-130	-		
1,2,3-Trichloropropane	103		-		70-130	-		
Nonane (C9)	100		-		70-130	-		
Isopropylbenzene	106		-		70-130	-		
Bromobenzene	101		-		70-130	-		
o-Chlorotoluene	98		-		70-130	-		
n-Propylbenzene	100		-		70-130	-		
p-Chlorotoluene	99		-		70-130	-		
4-Ethyltoluene	111		-		70-130	-		
1,3,5-Trimethylbenzene	122		-		70-130	-		
tert-Butylbenzene	104		-		70-130	-		
1,2,4-Trimethylbenzene	114		-		70-130	-		
Decane (C10)	100		-		70-130	-		
Benzyl chloride	125		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1255926-3								
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		
sec-Butylbenzene	106		-		70-130	-		
p-Isopropyltoluene	96		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
n-Butylbenzene	108		-		70-130	-		
1,2-Dibromo-3-chloropropane	111		-		70-130	-		
Undecane	111		-		70-130	-		
Dodecane (C12)	116		-		70-130	-		
1,2,4-Trichlorobenzene	119		-		70-130	-		
Naphthalene	99		-		70-130	-		
1,2,3-Trichlorobenzene	118		-		70-130	-		
Hexachlorobutadiene	130		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1928382

Project Number:

Report Date: 07/15/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1928382-01	350 STACK EFF	150	2.7L Can	06/25/19	295463	L1926463-02	Pass	-29.2	-2.8	-	-	-	-

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/22/19 23:07
Analyst: TS

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

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/22/19 23:07
Analyst: TS

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

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

Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1926463
Report Date: 07/15/19

Air Canister Certification Results

Lab ID: L1926463-02
Client ID: CAN 2206 SHELF 3
Sample Location:

Date Collected: 06/18/19 16:00
Date Received: 06/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	98		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1928382
Report Date: 07/15/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1928382-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1928382
Project Number:	Not Specified	**Report Date:**	07/15/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1928382
Project Number:	Not Specified	**Report Date:**	07/15/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 6/27/19

ALPHA Job #: L1928382

Client Information

Client: ALPINE ENV SERVICES
Address: 438 NEW KARNER RD
ALBANY NY 12205
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:

ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
28382.01	350 STACK Eff	6/27/19	9:30	9:31	-29	-2	SOIL GAS	KB	2.7L	150		X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	6/27/19 953	AAL	6-27-19 09:53
	6/27/19 1200		6/27/19 12:00
	6/27/19 15:15	AAL	6/27/19 15:16

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

ANALYTICAL REPORT

Lab Number:	L1932837
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	07/31/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932837-01	STACK EFF	SOIL_VAPOR	ALBANY, NY	07/24/19 11:58	07/24/19
L1932837-02	SVE-1	SOIL_VAPOR	ALBANY, NY	07/24/19 12:05	07/24/19
L1932837-03	SVE-2	SOIL_VAPOR	ALBANY, NY	07/24/19 12:11	07/24/19
L1932837-04	SVE-3	SOIL_VAPOR	ALBANY, NY	07/24/19 12:17	07/24/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1932837
Project Number:	Not Specified	**Report Date:**	07/31/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1932837
Project Number:	Not Specified	**Report Date:**	07/31/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 16, 2019. The canister certification results are provided as an addendum.

L1932837-02-04: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1265895-3 LCS recovery for 1,2,4-trichlorobenzene (140%) 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: 07/31/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-01
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 07/24/19 11:58
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/30/19 00:08
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.264	0.200	--	1.31	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	1.32	0.200	--	3.37	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
Ethyl Alcohol	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
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.678	0.500	--	2.36	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.465	0.200	--	1.84	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-01
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 07/24/19 11:58
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.408	0.200	--	1.30	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		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
1,2-Dichloroethene (total)	0.465	0.200	--	1.84	0.793	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-01
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 07/24/19 11:58
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	0.605	0.200	--	4.10	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
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	82		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:05
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/30/19 00:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	75.8	--	ND	375	--		378.8
Chloromethane	ND	75.8	--	ND	157	--		378.8
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	75.8	--	ND	530	--		378.8
Vinyl chloride	ND	75.8	--	ND	194	--		378.8
1,3-Butadiene	ND	75.8	--	ND	168	--		378.8
Bromomethane	ND	75.8	--	ND	294	--		378.8
Chloroethane	ND	75.8	--	ND	200	--		378.8
Ethyl Alcohol	ND	1890	--	ND	3560	--		378.8
Vinyl bromide	ND	75.8	--	ND	331	--		378.8
Acetone	ND	379	--	ND	900	--		378.8
Trichlorofluoromethane	ND	75.8	--	ND	426	--		378.8
iso-Propyl Alcohol	ND	189	--	ND	465	--		378.8
1,1-Dichloroethene	ND	75.8	--	ND	301	--		378.8
tert-Butyl Alcohol	ND	189.	--	ND	573	--		378.8
Methylene chloride	ND	189.	--	ND	657	--		378.8
3-Chloropropene	ND	75.8	--	ND	237	--		378.8
Carbon disulfide	ND	75.8	--	ND	236	--		378.8
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	75.8	--	ND	581	--		378.8
trans-1,2-Dichloroethene	ND	75.8	--	ND	301	--		378.8
1,1-Dichloroethane	ND	75.8	--	ND	307	--		378.8
Methyl tert butyl ether	ND	75.8	--	ND	273	--		378.8
2-Butanone	ND	189.	--	ND	557	--		378.8
cis-1,2-Dichloroethene	611	75.8	--	2420	301	--		378.8

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:05
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	189.	--	ND	681	--		378.8
Chloroform	ND	75.8	--	ND	370	--		378.8
Tetrahydrofuran	ND	189.	--	ND	557	--		378.8
1,2-Dichloroethane	ND	75.8	--	ND	307	--		378.8
n-Hexane	ND	75.8	--	ND	267	--		378.8
1,1,1-Trichloroethane	ND	75.8	--	ND	414	--		378.8
Benzene	ND	75.8	--	ND	242	--		378.8
Carbon tetrachloride	ND	75.8	--	ND	477	--		378.8
Cyclohexane	ND	75.8	--	ND	261	--		378.8
1,2-Dichloropropane	ND	75.8	--	ND	350	--		378.8
Bromodichloromethane	ND	75.8	--	ND	508	--		378.8
Xylene (Total)	ND	75.8	--	ND	329	--		378.8
1,4-Dioxane	ND	75.8	--	ND	273	--		378.8
Trichloroethene	359	75.8	--	1930	407	--		378.8
2,2,4-Trimethylpentane	ND	75.8	--	ND	354	--		378.8
Heptane	ND	75.8	--	ND	311	--		378.8
cis-1,3-Dichloropropene	ND	75.8	--	ND	344	--		378.8
4-Methyl-2-pentanone	ND	189.	--	ND	775	--		378.8
trans-1,3-Dichloropropene	ND	75.8	--	ND	344	--		378.8
1,1,2-Trichloroethane	ND	75.8	--	ND	414	--		378.8
Toluene	ND	75.8	--	ND	286	--		378.8
1,2-Dichloroethene (total)	611	75.8	--	2420	301	--		378.8
2-Hexanone	ND	75.8	--	ND	311	--		378.8
1,3-Dichloropropene, Total	ND	75.8	--	ND	344	--		378.8
Dibromochloromethane	ND	75.8	--	ND	646	--		378.8
1,2-Dibromoethane	ND	75.8	--	ND	583	--		378.8

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:05
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	34600	75.8	--	235000	514	--		378.8
Chlorobenzene	ND	75.8	--	ND	349	--		378.8
Ethylbenzene	ND	75.8	--	ND	329	--		378.8
p/m-Xylene	ND	152.	--	ND	660	--		378.8
Bromoform	ND	75.8	--	ND	784	--		378.8
Styrene	ND	75.8	--	ND	323	--		378.8
1,1,2,2-Tetrachloroethane	ND	75.8	--	ND	521	--		378.8
o-Xylene	ND	75.8	--	ND	329	--		378.8
4-Ethyltoluene	ND	75.8	--	ND	373	--		378.8
1,3,5-Trimethylbenzene	ND	75.8	--	ND	373	--		378.8
1,2,4-Trimethylbenzene	ND	75.8	--	ND	373	--		378.8
Benzyl chloride	ND	75.8	--	ND	392	--		378.8
1,3-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,4-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,2-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,2,4-Trichlorobenzene	ND	75.8	--	ND	563	--		378.8
Hexachlorobutadiene	ND	75.8	--	ND	809	--		378.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	89		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:11
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/30/19 01:09
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	36.2	--	ND	179	--		181.2
Chloromethane	ND	36.2	--	ND	74.8	--		181.2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	36.2	--	ND	253	--		181.2
Vinyl chloride	ND	36.2	--	ND	92.5	--		181.2
1,3-Butadiene	ND	36.2	--	ND	80.1	--		181.2
Bromomethane	ND	36.2	--	ND	141	--		181.2
Chloroethane	ND	36.2	--	ND	95.5	--		181.2
Ethyl Alcohol	ND	906.	--	ND	1710	--		181.2
Vinyl bromide	ND	36.2	--	ND	158	--		181.2
Acetone	ND	181	--	ND	430	--		181.2
Trichlorofluoromethane	ND	36.2	--	ND	203	--		181.2
iso-Propyl Alcohol	ND	90.6	--	ND	223	--		181.2
1,1-Dichloroethene	ND	36.2	--	ND	144	--		181.2
tert-Butyl Alcohol	ND	90.6	--	ND	275	--		181.2
Methylene chloride	ND	90.6	--	ND	315	--		181.2
3-Chloropropene	ND	36.2	--	ND	113	--		181.2
Carbon disulfide	ND	36.2	--	ND	113	--		181.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	36.2	--	ND	277	--		181.2
trans-1,2-Dichloroethene	ND	36.2	--	ND	144	--		181.2
1,1-Dichloroethane	ND	36.2	--	ND	147	--		181.2
Methyl tert butyl ether	ND	36.2	--	ND	131	--		181.2
2-Butanone	ND	90.6	--	ND	267	--		181.2
cis-1,2-Dichloroethene	1180	36.2	--	4680	144	--		181.2

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:11
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	90.6	--	ND	326	--		181.2
Chloroform	ND	36.2	--	ND	177	--		181.2
Tetrahydrofuran	ND	90.6	--	ND	267	--		181.2
1,2-Dichloroethane	ND	36.2	--	ND	147	--		181.2
n-Hexane	ND	36.2	--	ND	128	--		181.2
1,1,1-Trichloroethane	ND	36.2	--	ND	198	--		181.2
Benzene	ND	36.2	--	ND	116	--		181.2
Carbon tetrachloride	ND	36.2	--	ND	228	--		181.2
Cyclohexane	ND	36.2	--	ND	125	--		181.2
1,2-Dichloropropane	ND	36.2	--	ND	167	--		181.2
Xylene (Total)	ND	36.2	--	ND	157	--		181.2
Bromodichloromethane	ND	36.2	--	ND	243	--		181.2
1,4-Dioxane	ND	36.2	--	ND	130	--		181.2
Trichloroethene	258	36.2	--	1390	195	--		181.2
2,2,4-Trimethylpentane	ND	36.2	--	ND	169	--		181.2
Heptane	ND	36.2	--	ND	148	--		181.2
cis-1,3-Dichloropropene	ND	36.2	--	ND	164	--		181.2
4-Methyl-2-pentanone	ND	90.6	--	ND	371	--		181.2
trans-1,3-Dichloropropene	ND	36.2	--	ND	164	--		181.2
1,1,2-Trichloroethane	ND	36.2	--	ND	198	--		181.2
Toluene	ND	36.2	--	ND	136	--		181.2
1,2-Dichloroethene (total)	1180	36.2	--	4680	144	--		181.2
2-Hexanone	ND	36.2	--	ND	148	--		181.2
Dibromochloromethane	ND	36.2	--	ND	308	--		181.2
1,3-Dichloropropene, Total	ND	36.2	--	ND	164	--		181.2
1,2-Dibromoethane	ND	36.2	--	ND	278	--		181.2

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:11
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	14200	36.2	--	96300	245	--		181.2
Chlorobenzene	ND	36.2	--	ND	167	--		181.2
Ethylbenzene	ND	36.2	--	ND	157	--		181.2
p/m-Xylene	ND	72.5	--	ND	315	--		181.2
Bromoform	ND	36.2	--	ND	374	--		181.2
Styrene	ND	36.2	--	ND	154	--		181.2
1,1,2,2-Tetrachloroethane	ND	36.2	--	ND	249	--		181.2
o-Xylene	ND	36.2	--	ND	157	--		181.2
4-Ethyltoluene	ND	36.2	--	ND	178	--		181.2
1,3,5-Trimethylbenzene	ND	36.2	--	ND	178	--		181.2
1,2,4-Trimethylbenzene	ND	36.2	--	ND	178	--		181.2
Benzyl chloride	ND	36.2	--	ND	187	--		181.2
1,3-Dichlorobenzene	ND	36.2	--	ND	218	--		181.2
1,4-Dichlorobenzene	ND	36.2	--	ND	218	--		181.2
1,2-Dichlorobenzene	ND	36.2	--	ND	218	--		181.2
1,2,4-Trichlorobenzene	ND	36.2	--	ND	269	--		181.2
Hexachlorobutadiene	ND	36.2	--	ND	386	--		181.2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:17
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/30/19 01:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	18.1	--	ND	89.5	--		90.58
Chloromethane	ND	18.1	--	ND	37.4	--		90.58
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	18.1	--	ND	127	--		90.58
Vinyl chloride	ND	18.1	--	ND	46.3	--		90.58
1,3-Butadiene	ND	18.1	--	ND	40.0	--		90.58
Bromomethane	ND	18.1	--	ND	70.3	--		90.58
Chloroethane	ND	18.1	--	ND	47.8	--		90.58
Ethyl Alcohol	ND	453.	--	ND	854	--		90.58
Vinyl bromide	ND	18.1	--	ND	79.1	--		90.58
Acetone	ND	90.6	--	ND	215	--		90.58
Trichlorofluoromethane	ND	18.1	--	ND	102	--		90.58
iso-Propyl Alcohol	ND	45.3	--	ND	111	--		90.58
1,1-Dichloroethene	ND	18.1	--	ND	71.8	--		90.58
tert-Butyl Alcohol	ND	45.3	--	ND	137	--		90.58
Methylene chloride	ND	45.3	--	ND	157	--		90.58
3-Chloropropene	ND	18.1	--	ND	56.7	--		90.58
Carbon disulfide	ND	18.1	--	ND	56.4	--		90.58
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	18.1	--	ND	139	--		90.58
trans-1,2-Dichloroethene	29.4	18.1	--	117	71.8	--		90.58
1,1-Dichloroethane	ND	18.1	--	ND	73.3	--		90.58
Methyl tert butyl ether	ND	18.1	--	ND	65.3	--		90.58
2-Butanone	ND	45.3	--	ND	134	--		90.58
cis-1,2-Dichloroethene	6180	18.1	--	24500	71.8	--		90.58

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:17
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	45.3	--	ND	163	--		90.58
Chloroform	ND	18.1	--	ND	88.4	--		90.58
Tetrahydrofuran	ND	45.3	--	ND	134	--		90.58
1,2-Dichloroethane	ND	18.1	--	ND	73.3	--		90.58
n-Hexane	ND	18.1	--	ND	63.8	--		90.58
1,1,1-Trichloroethane	ND	18.1	--	ND	98.8	--		90.58
Benzene	ND	18.1	--	ND	57.8	--		90.58
Carbon tetrachloride	ND	18.1	--	ND	114	--		90.58
Cyclohexane	ND	18.1	--	ND	62.3	--		90.58
1,2-Dichloropropane	ND	18.1	--	ND	83.7	--		90.58
Xylene (Total)	ND	18.1	--	ND	78.6	--		90.58
Bromodichloromethane	ND	18.1	--	ND	121	--		90.58
1,4-Dioxane	ND	18.1	--	ND	65.2	--		90.58
Trichloroethene	1450	18.1	--	7790	97.3	--		90.58
2,2,4-Trimethylpentane	ND	18.1	--	ND	84.5	--		90.58
Heptane	ND	18.1	--	ND	74.2	--		90.58
cis-1,3-Dichloropropene	ND	18.1	--	ND	82.2	--		90.58
4-Methyl-2-pentanone	ND	45.3	--	ND	186	--		90.58
trans-1,3-Dichloropropene	ND	18.1	--	ND	82.2	--		90.58
1,1,2-Trichloroethane	ND	18.1	--	ND	98.8	--		90.58
Toluene	ND	18.1	--	ND	68.2	--		90.58
1,2-Dichloroethene (total)	6210	18.1	--	24600	71.8	--		90.58
2-Hexanone	ND	18.1	--	ND	74.2	--		90.58
1,3-Dichloropropene, Total	ND	18.1	--	ND	82.2	--		90.58
Dibromochloromethane	ND	18.1	--	ND	154	--		90.58
1,2-Dibromoethane	ND	18.1	--	ND	139	--		90.58

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932837-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 07/24/19 12:17
Date Received: 07/24/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	6860	18.1	--	46500	123	--		90.58
Chlorobenzene	ND	18.1	--	ND	83.4	--		90.58
Ethylbenzene	ND	18.1	--	ND	78.6	--		90.58
p/m-Xylene	ND	36.2	--	ND	157	--		90.58
Bromoform	ND	18.1	--	ND	187	--		90.58
Styrene	ND	18.1	--	ND	77.1	--		90.58
1,1,2,2-Tetrachloroethane	ND	18.1	--	ND	124	--		90.58
o-Xylene	ND	18.1	--	ND	78.6	--		90.58
4-Ethyltoluene	ND	18.1	--	ND	89.0	--		90.58
1,3,5-Trimethylbenzene	ND	18.1	--	ND	89.0	--		90.58
1,2,4-Trimethylbenzene	ND	18.1	--	ND	89.0	--		90.58
Benzyl chloride	ND	18.1	--	ND	93.7	--		90.58
1,3-Dichlorobenzene	ND	18.1	--	ND	109	--		90.58
1,4-Dichlorobenzene	ND	18.1	--	ND	109	--		90.58
1,2-Dichlorobenzene	ND	18.1	--	ND	109	--		90.58
1,2,4-Trichlorobenzene	ND	18.1	--	ND	134	--		90.58
Hexachlorobutadiene	ND	18.1	--	ND	193	--		90.58

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	88		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1932837
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/29/19 14:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1265895-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1932837
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/29/19 14:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1265895-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylene (Total)	ND	0.200	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1932837
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/29/19 14:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1265895-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1932837
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/29/19 14:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1265895-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1932837
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/29/19 14:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1265895-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1265895-3								
Chlorodifluoromethane	89		-		70-130	-		
Propylene	102		-		70-130	-		
Propane	82		-		70-130	-		
Dichlorodifluoromethane	80		-		70-130	-		
Chloromethane	97		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	106		-		70-130	-		
Methanol	76		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	97		-		70-130	-		
Butane	85		-		70-130	-		
Bromomethane	104		-		70-130	-		
Chloroethane	102		-		70-130	-		
Ethyl Alcohol	79		-		40-160	-		
Dichlorofluoromethane	93		-		70-130	-		
Vinyl bromide	103		-		70-130	-		
Acrolein	89		-		70-130	-		
Acetone	76		-		40-160	-		
Acetonitrile	83		-		70-130	-		
Trichlorofluoromethane	104		-		70-130	-		
iso-Propyl Alcohol	74		-		40-160	-		
Acrylonitrile	92		-		70-130	-		
Pentane	80		-		70-130	-		
Ethyl ether	74		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1265895-3								
1,1-Dichloroethene	89		-		70-130	-		
tert-Butyl Alcohol	82		-		70-130	-		
Methylene chloride	94		-		70-130	-		
3-Chloropropene	95		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	102		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	97		-		70-130	-		
Vinyl acetate	99		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		
Ethyl Acetate	102		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	97		-		70-130	-		
2,2-Dichloropropane	90		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	90		-		70-130	-		
Isopropyl Ether	83		-		70-130	-		
Ethyl-Tert-Butyl-Ether	83		-		70-130	-		
1,2-Dichloroethene (total)	98		-			-		
1,2-Dichloroethene (total)	98		-			-		
1,1,1-Trichloroethane	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1932837

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1265895-3								
1,1-Dichloropropene	92		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	100		-		70-130	-		
Cyclohexane	90		-		70-130	-		
Tertiary-Amyl Methyl Ether	85		-		70-130	-		
Dibromomethane	92		-		70-130	-		
1,2-Dichloropropane	94		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	98		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl Methacrylate	63		-		40-160	-		
Heptane	88		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	91		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	95		-		70-130	-		
1,3-Dichloropropane	90		-		70-130	-		
2-Hexanone	99		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	103		-		70-130	-		
Butyl Acetate	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1932837

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1265895-3								
Octane	90		-		70-130	-		
Tetrachloroethene	100		-		70-130	-		
1,1,1,2-Tetrachloroethane	93		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	107		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	105		-		70-130	-		
o-Xylene	101		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	86		-		70-130	-		
Isopropylbenzene	96		-		70-130	-		
Bromobenzene	91		-		70-130	-		
o-Chlorotoluene	95		-		70-130	-		
n-Propylbenzene	97		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		
4-Ethyltoluene	99		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
tert-Butylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	106		-		70-130	-		
Decane (C10)	95		-		70-130	-		
Benzyl chloride	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1265895-3								
1,3-Dichlorobenzene	107		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
sec-Butylbenzene	98		-		70-130	-		
p-Isopropyltoluene	91		-		70-130	-		
1,2-Dichlorobenzene	107		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	94		-		70-130	-		
Undecane	112		-		70-130	-		
Dodecane (C12)	**145**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	**140**	Q	-		70-130	-		
Naphthalene	117		-		70-130	-		
1,2,3-Trichlorobenzene	128		-		70-130	-		
Hexachlorobutadiene	129		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1265895-5 QC Sample: L1932837-04 Client ID: SVE-3						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	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
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	29.4	30.4	ppbV	3		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1265895-5 QC Sample: L1932837-04 Client ID: SVE-3						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	6180	5890	ppbV	5		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Xylene (Total)	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	1450	1410	ppbV	3		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1265895-5 QC Sample: L1932837-04 Client ID: SVE-3						
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	ND	ND	ppbV	NC		25
1,2-Dichloroethene (total)	6210	5920	ppbV	5		25
2-Hexanone	ND	ND	ppbV	NC		25
1,3-Dichloropropene, Total	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	6860	6700	ppbV	2		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1265895-5 QC Sample: L1932837-04 Client ID: SVE-3						
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 350 NORTHERN BLVD

Lab Number: L1932837

Project Number:

Report Date: 07/31/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1932837-01	STACK EFF	336	2.7L Can	07/16/19	297000	L1930221-02	Pass	-29.5	-3.9	-	-	-	-
L1932837-02	SVE-1	2210	2.7L Can	07/16/19	297000	L1930221-02	Pass	-28.3	-4.4	-	-	-	-
L1932837-03	SVE-2	2183	2.7L Can	07/16/19	297000	L1930221-02	Pass	-29.5	-3.9	-	-	-	-
L1932837-04	SVE-3	233	2.7L Can	07/16/19	297000	L1930221-02	Pass	-28.2	-3.2	-	-	-	-

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

Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/11/19 19:03
Analyst: TS

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

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

Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1930221

Project Number: CANISTER QC BAT **Report Date:** 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/11/19 19:03
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1930221
Report Date: 07/31/19

Air Canister Certification Results

Lab ID: L1930221-02
Client ID: CAN 1724 SHELF 7
Sample Location:

Date Collected: 07/10/19 16:00
Date Received: 07/11/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	98		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1932837
Report Date: 07/31/19

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(*)
L1932837-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1932837-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1932837-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1932837-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1932837
Project Number:	Not Specified	**Report Date:**	07/31/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1932837
Project Number:	Not Specified	**Report Date:**	07/31/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 7/25/19

ALPHA Job #: L1932837

Client Information

Client: Alpine Env Services
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: KimB@Alpineenv.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Attn Mark Schnitzer

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
932877-01	Stack Eff	7/24/19	1157	1158	-26	-2	SG	KB	2.7L	336	—	X					
-02	SVE-1	7/24/19	1204	1205	-28	-3	SG	KB	2.7L	2210	—	X					
-03	SVE-2	7/24/19	1210	1211	-29	-3	SG	KB	2.7L	2183	—	X					
-04	SVE-3	7/24/19	1216	1217	-30	-4	SG	KB	2.7L	233	—	X					

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
	7/24/19 1530	Robert Haire AAL	7-24-19 15:30
Robert Haire	7-24-19 15:30		07/24/19 1530
	0545		7/25/19 05:50

ANALYTICAL REPORT

Lab Number:	L1939171
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NPRTHERN BLVD
Project Number:	Not Specified
Report Date:	09/06/19

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

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

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1939171-01	SVE-1	SOIL_VAPOR	ALBANY, NY	08/28/19 10:05	08/28/19
L1939171-02	SVE-2	SOIL_VAPOR	ALBANY, NY	08/28/19 10:09	08/28/19
L1939171-03	SVE-3	SOIL_VAPOR	ALBANY, NY	08/28/19 10:15	08/28/19
L1939171-04	STACK EFF	SOIL_VAPOR	ALBANY, NY	08/28/19 10:20	08/28/19

Project Name:	350 NPRTHERN BLVD	**Lab Number:**	L1939171
Project Number:	Not Specified	**Report Date:**	09/06/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NPRTHERN BLVD	**Lab Number:**	L1939171
Project Number:	Not Specified	**Report Date:**	09/06/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 6, 2019. The canister certification results are provided as an addendum.

L1939171-01 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 09/06/19

AIR

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:05
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/06/19 01:17
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	90.9	--	ND	449	--		454.5
Chloromethane	ND	90.9	--	ND	188	--		454.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	90.9	--	ND	635	--		454.5
Vinyl chloride	ND	90.9	--	ND	232	--		454.5
1,3-Butadiene	ND	90.9	--	ND	201	--		454.5
Bromomethane	ND	90.9	--	ND	353	--		454.5
Chloroethane	ND	90.9	--	ND	240	--		454.5
Ethyl Alcohol	ND	2270	--	ND	4280	--		454.5
Vinyl bromide	ND	90.9	--	ND	397	--		454.5
Acetone	ND	454.	--	ND	1080	--		454.5
Trichlorofluoromethane	ND	90.9	--	ND	511	--		454.5
iso-Propyl Alcohol	ND	227.	--	ND	558	--		454.5
1,1-Dichloroethene	ND	90.9	--	ND	360	--		454.5
tert-Butyl Alcohol	ND	227.	--	ND	688	--		454.5
Methylene chloride	ND	227.	--	ND	789	--		454.5
3-Chloropropene	ND	90.9	--	ND	285	--		454.5
Carbon disulfide	ND	90.9	--	ND	283	--		454.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	90.9	--	ND	697	--		454.5
trans-1,2-Dichloroethene	ND	90.9	--	ND	360	--		454.5
1,1-Dichloroethane	ND	90.9	--	ND	368	--		454.5
Methyl tert butyl ether	ND	90.9	--	ND	328	--		454.5
2-Butanone	ND	227.	--	ND	669	--		454.5
cis-1,2-Dichloroethene	911	90.9	--	3610	360	--		454.5

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:05
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	227.	--	ND	818	--		454.5
Chloroform	ND	90.9	--	ND	444	--		454.5
Tetrahydrofuran	ND	227.	--	ND	669	--		454.5
1,2-Dichloroethane	ND	90.9	--	ND	368	--		454.5
n-Hexane	ND	90.9	--	ND	320	--		454.5
1,1,1-Trichloroethane	ND	90.9	--	ND	496	--		454.5
Benzene	ND	90.9	--	ND	290	--		454.5
Carbon tetrachloride	ND	90.9	--	ND	572	--		454.5
Cyclohexane	ND	90.9	--	ND	313	--		454.5
1,2-Dichloropropane	ND	90.9	--	ND	420	--		454.5
Bromodichloromethane	ND	90.9	--	ND	609	--		454.5
Xylene (Total)	ND	90.9	--	ND	395	--		454.5
1,4-Dioxane	ND	90.9	--	ND	328	--		454.5
Trichloroethene	434	90.9	--	2330	489	--		454.5
2,2,4-Trimethylpentane	ND	90.9	--	ND	425	--		454.5
Heptane	ND	90.9	--	ND	373	--		454.5
cis-1,3-Dichloropropene	ND	90.9	--	ND	413	--		454.5
4-Methyl-2-pentanone	ND	227.	--	ND	930	--		454.5
trans-1,3-Dichloropropene	ND	90.9	--	ND	413	--		454.5
1,1,2-Trichloroethane	ND	90.9	--	ND	496	--		454.5
Toluene	ND	90.9	--	ND	343	--		454.5
1,2-Dichloroethene (total)	911	90.9	--	3610	360	--		454.5
2-Hexanone	ND	90.9	--	ND	373	--		454.5
Dibromochloromethane	ND	90.9	--	ND	774	--		454.5
1,3-Dichloropropene, Total	ND	90.9	--	ND	413	--		454.5
1,2-Dibromoethane	ND	90.9	--	ND	699	--		454.5

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:05
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	28200	90.9	--	191000	616	--		454.5
Chlorobenzene	ND	90.9	--	ND	419	--		454.5
Ethylbenzene	ND	90.9	--	ND	395	--		454.5
p/m-Xylene	ND	182.	--	ND	791	--		454.5
Bromoform	ND	90.9	--	ND	940	--		454.5
Styrene	ND	90.9	--	ND	387	--		454.5
1,1,2,2-Tetrachloroethane	ND	90.9	--	ND	624	--		454.5
o-Xylene	ND	90.9	--	ND	395	--		454.5
4-Ethyltoluene	ND	90.9	--	ND	447	--		454.5
1,3,5-Trimethylbenzene	ND	90.9	--	ND	447	--		454.5
1,2,4-Trimethylbenzene	ND	90.9	--	ND	447	--		454.5
Benzyl chloride	ND	90.9	--	ND	471	--		454.5
1,3-Dichlorobenzene	ND	90.9	--	ND	547	--		454.5
1,4-Dichlorobenzene	ND	90.9	--	ND	547	--		454.5
1,2-Dichlorobenzene	ND	90.9	--	ND	547	--		454.5
1,2,4-Trichlorobenzene	ND	90.9	--	ND	675	--		454.5
Hexachlorobutadiene	ND	90.9	--	ND	970	--		454.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	99		60-140

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:09
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/06/19 01:54
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	27.5	--	ND	136	--		137.4
Chloromethane	ND	27.5	--	ND	56.8	--		137.4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	27.5	--	ND	192	--		137.4
Vinyl chloride	ND	27.5	--	ND	70.3	--		137.4
1,3-Butadiene	ND	27.5	--	ND	60.8	--		137.4
Bromomethane	ND	27.5	--	ND	107	--		137.4
Chloroethane	ND	27.5	--	ND	72.6	--		137.4
Ethyl Alcohol	ND	687.	--	ND	1290	--		137.4
Vinyl bromide	ND	27.5	--	ND	120	--		137.4
Acetone	ND	137	--	ND	325	--		137.4
Trichlorofluoromethane	ND	27.5	--	ND	155	--		137.4
iso-Propyl Alcohol	ND	68.7	--	ND	169	--		137.4
1,1-Dichloroethene	ND	27.5	--	ND	109	--		137.4
tert-Butyl Alcohol	ND	68.7	--	ND	208	--		137.4
Methylene chloride	ND	68.7	--	ND	239	--		137.4
3-Chloropropene	ND	27.5	--	ND	86.1	--		137.4
Carbon disulfide	ND	27.5	--	ND	85.6	--		137.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	27.5	--	ND	211	--		137.4
trans-1,2-Dichloroethene	ND	27.5	--	ND	109	--		137.4
1,1-Dichloroethane	ND	27.5	--	ND	111	--		137.4
Methyl tert butyl ether	ND	27.5	--	ND	99.1	--		137.4
2-Butanone	ND	68.7	--	ND	203	--		137.4
cis-1,2-Dichloroethene	627	27.5	--	2490	109	--		137.4

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:09
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	68.7	--	ND	248	--		137.4
Chloroform	ND	27.5	--	ND	134	--		137.4
Tetrahydrofuran	ND	68.7	--	ND	203	--		137.4
1,2-Dichloroethane	ND	27.5	--	ND	111	--		137.4
n-Hexane	ND	27.5	--	ND	96.9	--		137.4
1,1,1-Trichloroethane	ND	27.5	--	ND	150	--		137.4
Benzene	ND	27.5	--	ND	87.9	--		137.4
Carbon tetrachloride	ND	27.5	--	ND	173	--		137.4
Cyclohexane	ND	27.5	--	ND	94.7	--		137.4
1,2-Dichloropropane	ND	27.5	--	ND	127	--		137.4
Xylene (Total)	ND	27.5	--	ND	119	--		137.4
Bromodichloromethane	ND	27.5	--	ND	184	--		137.4
1,4-Dioxane	ND	27.5	--	ND	99.1	--		137.4
Trichloroethene	171	27.5	--	919	148	--		137.4
2,2,4-Trimethylpentane	ND	27.5	--	ND	128	--		137.4
Heptane	ND	27.5	--	ND	113	--		137.4
cis-1,3-Dichloropropene	ND	27.5	--	ND	125	--		137.4
4-Methyl-2-pentanone	ND	68.7	--	ND	282	--		137.4
trans-1,3-Dichloropropene	ND	27.5	--	ND	125	--		137.4
1,1,2-Trichloroethane	ND	27.5	--	ND	150	--		137.4
Toluene	ND	27.5	--	ND	104	--		137.4
1,2-Dichloroethene (total)	627	27.5	--	2490	109	--		137.4
2-Hexanone	ND	27.5	--	ND	113	--		137.4
Dibromochloromethane	ND	27.5	--	ND	234	--		137.4
1,3-Dichloropropene, Total	ND	27.5	--	ND	125	--		137.4
1,2-Dibromoethane	ND	27.5	--	ND	211	--		137.4

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:09
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	7500	27.5	--	50900	186	--		137.4
Chlorobenzene	ND	27.5	--	ND	127	--		137.4
Ethylbenzene	ND	27.5	--	ND	119	--		137.4
p/m-Xylene	ND	55.0	--	ND	239	--		137.4
Bromoform	ND	27.5	--	ND	284	--		137.4
Styrene	ND	27.5	--	ND	117	--		137.4
1,1,2,2-Tetrachloroethane	ND	27.5	--	ND	189	--		137.4
o-Xylene	ND	27.5	--	ND	119	--		137.4
4-Ethyltoluene	ND	27.5	--	ND	135	--		137.4
1,3,5-Trimethylbenzene	ND	27.5	--	ND	135	--		137.4
1,2,4-Trimethylbenzene	ND	27.5	--	ND	135	--		137.4
Benzyl chloride	ND	27.5	--	ND	142	--		137.4
1,3-Dichlorobenzene	ND	27.5	--	ND	165	--		137.4
1,4-Dichlorobenzene	ND	27.5	--	ND	165	--		137.4
1,2-Dichlorobenzene	ND	27.5	--	ND	165	--		137.4
1,2,4-Trichlorobenzene	ND	27.5	--	ND	204	--		137.4
Hexachlorobutadiene	ND	27.5	--	ND	293	--		137.4

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	106		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	103		60-140

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:15
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/06/19 02:31
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	22.3	--	ND	110	--		111.6
Chloromethane	ND	22.3	--	ND	46.1	--		111.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	22.3	--	ND	156	--		111.6
Vinyl chloride	ND	22.3	--	ND	57.0	--		111.6
1,3-Butadiene	ND	22.3	--	ND	49.3	--		111.6
Bromomethane	ND	22.3	--	ND	86.6	--		111.6
Chloroethane	ND	22.3	--	ND	58.8	--		111.6
Ethyl Alcohol	ND	558.	--	ND	1050	--		111.6
Vinyl bromide	ND	22.3	--	ND	97.5	--		111.6
Acetone	ND	112.	--	ND	266	--		111.6
Trichlorofluoromethane	ND	22.3	--	ND	125	--		111.6
iso-Propyl Alcohol	ND	55.8	--	ND	137	--		111.6
1,1-Dichloroethene	ND	22.3	--	ND	88.4	--		111.6
tert-Butyl Alcohol	ND	55.8	--	ND	169	--		111.6
Methylene chloride	ND	55.8	--	ND	194	--		111.6
3-Chloropropene	ND	22.3	--	ND	69.8	--		111.6
Carbon disulfide	ND	22.3	--	ND	69.4	--		111.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	22.3	--	ND	171	--		111.6
trans-1,2-Dichloroethene	42.8	22.3	--	170	88.4	--		111.6
1,1-Dichloroethane	ND	22.3	--	ND	90.3	--		111.6
Methyl tert butyl ether	ND	22.3	--	ND	80.4	--		111.6
2-Butanone	ND	55.8	--	ND	165	--		111.6
cis-1,2-Dichloroethene	7000	22.3	--	27800	88.4	--		111.6

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:15
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	55.8	--	ND	201	--		111.6
Chloroform	ND	22.3	--	ND	109	--		111.6
Tetrahydrofuran	ND	55.8	--	ND	165	--		111.6
1,2-Dichloroethane	ND	22.3	--	ND	90.3	--		111.6
n-Hexane	ND	22.3	--	ND	78.6	--		111.6
1,1,1-Trichloroethane	ND	22.3	--	ND	122	--		111.6
Benzene	ND	22.3	--	ND	71.2	--		111.6
Carbon tetrachloride	ND	22.3	--	ND	140	--		111.6
Cyclohexane	ND	22.3	--	ND	76.8	--		111.6
1,2-Dichloropropane	ND	22.3	--	ND	103	--		111.6
Bromodichloromethane	ND	22.3	--	ND	149	--		111.6
Xylene (Total)	ND	22.3	--	ND	96.9	--		111.6
1,4-Dioxane	ND	22.3	--	ND	80.4	--		111.6
Trichloroethene	1520	22.3	--	8170	120	--		111.6
2,2,4-Trimethylpentane	ND	22.3	--	ND	104	--		111.6
Heptane	ND	22.3	--	ND	91.4	--		111.6
cis-1,3-Dichloropropene	ND	22.3	--	ND	101	--		111.6
4-Methyl-2-pentanone	ND	55.8	--	ND	229	--		111.6
trans-1,3-Dichloropropene	ND	22.3	--	ND	101	--		111.6
1,1,2-Trichloroethane	ND	22.3	--	ND	122	--		111.6
Toluene	ND	22.3	--	ND	84.0	--		111.6
1,2-Dichloroethene (total)	7040	22.3	--	27900	88.4	--		111.6
2-Hexanone	ND	22.3	--	ND	91.4	--		111.6
1,3-Dichloropropene, Total	ND	22.3	--	ND	101	--		111.6
Dibromochloromethane	ND	22.3	--	ND	190	--		111.6
1,2-Dibromoethane	ND	22.3	--	ND	171	--		111.6

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:15
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	6400	22.3	--	43400	151	--		111.6
Chlorobenzene	ND	22.3	--	ND	103	--		111.6
Ethylbenzene	ND	22.3	--	ND	96.9	--		111.6
p/m-Xylene	ND	44.6	--	ND	194	--		111.6
Bromoform	ND	22.3	--	ND	231	--		111.6
Styrene	ND	22.3	--	ND	94.9	--		111.6
1,1,2,2-Tetrachloroethane	ND	22.3	--	ND	153	--		111.6
o-Xylene	ND	22.3	--	ND	96.9	--		111.6
4-Ethyltoluene	ND	22.3	--	ND	110	--		111.6
1,3,5-Trimethylbenzene	ND	22.3	--	ND	110	--		111.6
1,2,4-Trimethylbenzene	ND	22.3	--	ND	110	--		111.6
Benzyl chloride	ND	22.3	--	ND	115	--		111.6
1,3-Dichlorobenzene	ND	22.3	--	ND	134	--		111.6
1,4-Dichlorobenzene	ND	22.3	--	ND	134	--		111.6
1,2-Dichlorobenzene	ND	22.3	--	ND	134	--		111.6
1,2,4-Trichlorobenzene	ND	22.3	--	ND	166	--		111.6
Hexachlorobutadiene	ND	22.3	--	ND	238	--		111.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	103		60-140

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-04 D
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:20
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/06/19 03:09
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.486	0.400	--	2.40	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	1.60	0.400	--	4.09	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethyl Alcohol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	ND	2.00	--	ND	4.75	--		2
Trichlorofluoromethane	0.890	0.400	--	5.00	2.25	--		2
iso-Propyl Alcohol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
tert-Butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	2.36	0.400	--	9.36	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	ND	1.00	--	ND	2.95	--		2
cis-1,2-Dichloroethene	127	0.400	--	504	1.59	--		2

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-04 D
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:20
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	ND	0.400	--	ND	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	ND	0.400	--	ND	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	0.740	0.400	--	2.36	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Xylene (Total)	ND	0.400	--	ND	1.74	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	ND	0.400	--	ND	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	ND	0.400	--	ND	1.51	--		2
1,2-Dichloroethene (total)	130	0.400	--	515	1.59	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
1,3-Dichloropropene, Total	ND	0.400	--	ND	1.82	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

SAMPLE RESULTS

Lab ID: L1939171-04 D
Client ID: STACK EFF
Sample Location: ALBANY, NY

Date Collected: 08/28/19 10:20
Date Received: 08/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	ND	0.400	--	ND	1.74	--		2
p/m-Xylene	ND	0.800	--	ND	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	ND	0.400	--	ND	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	102		60-140

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified
Lab Number: L1939171
Report Date: 09/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/05/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1280720-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified
Lab Number: L1939171
Report Date: 09/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/05/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1280720-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		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

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified
Lab Number: L1939171
Report Date: 09/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/05/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1280720-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified
Lab Number: L1939171
Report Date: 09/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/05/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1280720-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified
Lab Number: L1939171
Report Date: 09/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/05/19 15:32

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1280720-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1280720-3								
Chlorodifluoromethane	83		-		70-130	-		
Propylene	122		-		70-130	-		
Propane	84		-		70-130	-		
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	91		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	92		-		70-130	-		
Methanol	78		-		70-130	-		
Vinyl chloride	104		-		70-130	-		
1,3-Butadiene	94		-		70-130	-		
Butane	99		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	104		-		70-130	-		
Ethyl Alcohol	83		-		40-160	-		
Dichlorofluoromethane	92		-		70-130	-		
Vinyl bromide	89		-		70-130	-		
Acrolein	82		-		70-130	-		
Acetone	88		-		40-160	-		
Acetonitrile	97		-		70-130	-		
Trichlorofluoromethane	90		-		70-130	-		
iso-Propyl Alcohol	88		-		40-160	-		
Acrylonitrile	81		-		70-130	-		
Pentane	97		-		70-130	-		
Ethyl ether	**68**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1280720-3								
1,1-Dichloroethene	98		-		70-130	-		
tert-Butyl Alcohol	80		-		70-130	-		
Methylene chloride	90		-		70-130	-		
3-Chloropropene	108		-		70-130	-		
Carbon disulfide	84		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		-		70-130	-		
trans-1,2-Dichloroethene	106		-		70-130	-		
1,1-Dichloroethane	109		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
Vinyl acetate	105		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	113		-		70-130	-		
Ethyl Acetate	122		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	109		-		70-130	-		
2,2-Dichloropropane	83		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	103		-		70-130	-		
Isopropyl Ether	95		-		70-130	-		
Ethyl-Tert-Butyl-Ether	99		-		70-130	-		
1,2-Dichloroethene (total)	110		-			-		
1,2-Dichloroethene (total)	110		-			-		
1,1,1-Trichloroethane	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1280720-3								
1,1-Dichloropropene	86		-		70-130	-		
Benzene	89		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
Cyclohexane	104		-		70-130	-		
Tertiary-Amyl Methyl Ether	83		-		70-130	-		
Dibromomethane	94		-		70-130	-		
1,2-Dichloropropane	106		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	98		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	106		-		70-130	-		
Methyl Methacrylate	83		-		40-160	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	99		-		70-130	-		
trans-1,3-Dichloropropene	80		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	88		-		70-130	-		
1,3-Dichloropropane	74		-		70-130	-		
2-Hexanone	82		-		70-130	-		
Dibromochloromethane	92		-		70-130	-		
1,2-Dibromoethane	86		-		70-130	-		
Butyl Acetate	**69**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1280720-3								
Octane	82		-		70-130	-		
Tetrachloroethene	83		-		70-130	-		
1,1,1,2-Tetrachloroethane	82		-		70-130	-		
Chlorobenzene	86		-		70-130	-		
Ethylbenzene	90		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	94		-		70-130	-		
Styrene	85		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	90		-		70-130	-		
1,2,3-Trichloropropane	80		-		70-130	-		
Nonane (C9)	78		-		70-130	-		
Isopropylbenzene	82		-		70-130	-		
Bromobenzene	80		-		70-130	-		
o-Chlorotoluene	83		-		70-130	-		
n-Propylbenzene	85		-		70-130	-		
p-Chlorotoluene	83		-		70-130	-		
4-Ethyltoluene	88		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
tert-Butylbenzene	92		-		70-130	-		
1,2,4-Trimethylbenzene	97		-		70-130	-		
Decane (C10)	106		-		70-130	-		
Benzyl chloride	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1280720-3								
1,3-Dichlorobenzene	92		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		
sec-Butylbenzene	91		-		70-130	-		
p-Isopropyltoluene	90		-		70-130	-		
1,2-Dichlorobenzene	98		-		70-130	-		
n-Butylbenzene	106		-		70-130	-		
1,2-Dibromo-3-chloropropane	95		-		70-130	-		
Undecane	101		-		70-130	-		
Dodecane (C12)	96		-		70-130	-		
1,2,4-Trichlorobenzene	106		-		70-130	-		
Naphthalene	94		-		70-130	-		
1,2,3-Trichlorobenzene	86		-		70-130	-		
Hexachlorobutadiene	94		-		70-130	-		

Project Name: 350 NPRTHERN BLVD

Lab Number: L1939171

Project Number:

Report Date: 09/06/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1939171-01	SVE-1	2187	2.7L Can	08/06/19	298294	L1933446-05	Pass	-29.6	-4.4	-	-	-	-
L1939171-02	SVE-2	2422	2.7L Can	08/06/19	298294	L1933446-05	Pass	-29.6	-4.2	-	-	-	-
L1939171-03	SVE-3	205	2.7L Can	08/06/19	298294	L1933446-05	Pass	-29.6	-3.3	-	-	-	-
L1939171-04	STACK EFF	169	2.7L Can	08/06/19	298294	L1933446-05	Pass	-29.6	-1.5	-	-	-	-

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

Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/19 08:19
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

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

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

Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/19 08:19
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1933446
Report Date: 09/06/19

Air Canister Certification Results

Lab ID: L1933446-05
Client ID: CAN 1732 SHELF 2
Sample Location:

Date Collected: 07/26/19 16:00
Date Received: 07/29/19
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NPRTHERN BLVD
Project Number: Not Specified

Lab Number: L1939171
Report Date: 09/06/19

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(*)
L1939171-01A	Canister - 2.7 Liter	NA	NA		999	Y	Absent		TO15-LL(30)
L1939171-02A	Canister - 2.7 Liter	NA	NA		999	Y	Absent		TO15-LL(30)
L1939171-03A	Canister - 2.7 Liter	NA	NA		999	Y	Absent		TO15-LL(30)
L1939171-04A	Canister - 2.7 Liter	NA	NA		999	Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NPRTHERN BLVD	**Lab Number:**	L1939171
Project Number:	Not Specified	**Report Date:**	09/06/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NPRTHERN BLVD	**Lab Number:**	L1939171
Project Number:	Not Specified	**Report Date:**	09/06/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 8/28/19

ALPHA Job #: L1939171

Client Information

Client: ALPINE ENV SERVICES
Address: 438 New Karner Rd
ALBANY NY
Phone: 518-588-2104
Fax:
Email: KWB@ALPINEENV.COM
☑ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Solvent Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
39171.01	SVE-1	8/28/19	1004	1005	-30	-5	Soil Gas	KB	2.7L	2187		X					
.02	SVE-2	8/28/19	1009	1010	-30	-4	SG	KB	2.7L	2422		X					
.03	SVE-3	8/28/19	1015	1016	-30	-2	SG	KB	2.7L	205		X					
.04	STACK EFF	8/28/19	1020	1021	-30	-4	SG	KB	2.7L	169		X					
							<										

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
KWB	8/28/2019 12:25	Jim Carley AAL	8/28/19 12:25
Jim Carley AAL	8/28/19 12:30	[illegible]	8-28-19 12:30
[illegible]	8-28-19 16:15	AAL	8/28/19 16:15

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

ANALYTICAL REPORT

Lab Number:	L1945124
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	10/04/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1945124-01	SVE-1	SOIL_VAPOR	ALBANY, NY	09/27/19 09:25	09/27/19
L1945124-02	SVE-2	SOIL_VAPOR	ALBANY, NY	09/27/19 09:32	09/27/19
L1945124-03	SVE-3	SOIL_VAPOR	ALBANY, NY	09/27/19 09:38	09/27/19
L1945124-04	STACK EFFLUENT	SOIL_VAPOR	ALBANY, NY	09/27/19 09:45	09/27/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1945124
Project Number:	Not Specified	**Report Date:**	10/04/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1945124
Project Number:	Not Specified	**Report Date:**	10/04/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 6, 2019. The canister certification results are provided as an addendum.

L1945124-01 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 10/04/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:25
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/04/19 02:42
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	64.9	--	ND	321	--		324.7
Chloromethane	ND	64.9	--	ND	134	--		324.7
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	64.9	--	ND	454	--		324.7
Vinyl chloride	ND	64.9	--	ND	166	--		324.7
1,3-Butadiene	ND	64.9	--	ND	144	--		324.7
Bromomethane	ND	64.9	--	ND	252	--		324.7
Chloroethane	ND	64.9	--	ND	171	--		324.7
Ethyl Alcohol	ND	1620	--	ND	3050	--		324.7
Vinyl bromide	ND	64.9	--	ND	284	--		324.7
Acetone	ND	325.	--	ND	772	--		324.7
Trichlorofluoromethane	ND	64.9	--	ND	365	--		324.7
iso-Propyl Alcohol	ND	162.	--	ND	398	--		324.7
1,1-Dichloroethene	ND	64.9	--	ND	257	--		324.7
tert-Butyl Alcohol	ND	162.	--	ND	491	--		324.7
Methylene chloride	ND	162.	--	ND	563	--		324.7
3-Chloropropene	ND	64.9	--	ND	203	--		324.7
Carbon disulfide	ND	64.9	--	ND	202	--		324.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	64.9	--	ND	497	--		324.7
trans-1,2-Dichloroethene	ND	64.9	--	ND	257	--		324.7
1,1-Dichloroethane	ND	64.9	--	ND	263	--		324.7
Methyl tert butyl ether	ND	64.9	--	ND	234	--		324.7
2-Butanone	ND	162.	--	ND	478	--		324.7
cis-1,2-Dichloroethene	418	64.9	--	1660	257	--		324.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:25
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	162.	--	ND	584	--		324.7
Chloroform	ND	64.9	--	ND	317	--		324.7
Tetrahydrofuran	ND	162.	--	ND	478	--		324.7
1,2-Dichloroethane	ND	64.9	--	ND	263	--		324.7
n-Hexane	ND	64.9	--	ND	229	--		324.7
1,1,1-Trichloroethane	ND	64.9	--	ND	354	--		324.7
Benzene	ND	64.9	--	ND	207	--		324.7
Carbon tetrachloride	ND	64.9	--	ND	408	--		324.7
Cyclohexane	ND	64.9	--	ND	223	--		324.7
1,2-Dichloropropane	ND	64.9	--	ND	300	--		324.7
Bromodichloromethane	ND	64.9	--	ND	435	--		324.7
Xylene (Total)	ND	64.9	--	ND	282	--		324.7
1,4-Dioxane	ND	64.9	--	ND	234	--		324.7
Trichloroethene	233	64.9	--	1250	349	--		324.7
2,2,4-Trimethylpentane	ND	64.9	--	ND	303	--		324.7
Heptane	ND	64.9	--	ND	266	--		324.7
cis-1,3-Dichloropropene	ND	64.9	--	ND	295	--		324.7
4-Methyl-2-pentanone	ND	162.	--	ND	664	--		324.7
trans-1,3-Dichloropropene	ND	64.9	--	ND	295	--		324.7
1,1,2-Trichloroethane	ND	64.9	--	ND	354	--		324.7
Toluene	ND	64.9	--	ND	245	--		324.7
1,2-Dichloroethene (total)	418	64.9	--	1660	257	--		324.7
2-Hexanone	ND	64.9	--	ND	266	--		324.7
Dibromochloromethane	ND	64.9	--	ND	553	--		324.7
1,3-Dichloropropene, Total	ND	64.9	--	ND	295	--		324.7
1,2-Dibromoethane	ND	64.9	--	ND	499	--		324.7

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:25
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	20500	64.9	--	139000	440	--		324.7
Chlorobenzene	ND	64.9	--	ND	299	--		324.7
Ethylbenzene	ND	64.9	--	ND	282	--		324.7
p/m-Xylene	ND	130.	--	ND	565	--		324.7
Bromoform	ND	64.9	--	ND	671	--		324.7
Styrene	ND	64.9	--	ND	276	--		324.7
1,1,2,2-Tetrachloroethane	ND	64.9	--	ND	446	--		324.7
o-Xylene	ND	64.9	--	ND	282	--		324.7
4-Ethyltoluene	ND	64.9	--	ND	319	--		324.7
1,3,5-Trimethylbenzene	ND	64.9	--	ND	319	--		324.7
1,2,4-Trimethylbenzene	ND	64.9	--	ND	319	--		324.7
Benzyl chloride	ND	64.9	--	ND	336	--		324.7
1,3-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,4-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,2-Dichlorobenzene	ND	64.9	--	ND	390	--		324.7
1,2,4-Trichlorobenzene	ND	64.9	--	ND	482	--		324.7
Hexachlorobutadiene	ND	64.9	--	ND	692	--		324.7

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:32
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/04/19 03:20
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	12.8	--	ND	63.3	--		63.94
Chloromethane	ND	12.8	--	ND	26.4	--		63.94
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	12.8	--	ND	89.5	--		63.94
Vinyl chloride	ND	12.8	--	ND	32.7	--		63.94
1,3-Butadiene	ND	12.8	--	ND	28.3	--		63.94
Bromomethane	ND	12.8	--	ND	49.7	--		63.94
Chloroethane	ND	12.8	--	ND	33.8	--		63.94
Ethyl Alcohol	ND	320	--	ND	603	--		63.94
Vinyl bromide	ND	12.8	--	ND	56.0	--		63.94
Acetone	ND	63.9	--	ND	152	--		63.94
Trichlorofluoromethane	ND	12.8	--	ND	71.9	--		63.94
iso-Propyl Alcohol	ND	32.0	--	ND	78.7	--		63.94
1,1-Dichloroethene	ND	12.8	--	ND	50.7	--		63.94
tert-Butyl Alcohol	ND	32.0	--	ND	97.0	--		63.94
Methylene chloride	ND	32.0	--	ND	111	--		63.94
3-Chloropropene	ND	12.8	--	ND	40.1	--		63.94
Carbon disulfide	ND	12.8	--	ND	39.9	--		63.94
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12.8	--	ND	98.1	--		63.94
trans-1,2-Dichloroethene	ND	12.8	--	ND	50.7	--		63.94
1,1-Dichloroethane	ND	12.8	--	ND	51.8	--		63.94
Methyl tert butyl ether	ND	12.8	--	ND	46.1	--		63.94
2-Butanone	ND	32.0	--	ND	94.4	--		63.94
cis-1,2-Dichloroethene	210	12.8	--	833	50.7	--		63.94

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:32
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	32.0	--	ND	115	--		63.94
Chloroform	ND	12.8	--	ND	62.5	--		63.94
Tetrahydrofuran	ND	32.0	--	ND	94.4	--		63.94
1,2-Dichloroethane	ND	12.8	--	ND	51.8	--		63.94
n-Hexane	ND	12.8	--	ND	45.1	--		63.94
1,1,1-Trichloroethane	ND	12.8	--	ND	69.8	--		63.94
Benzene	ND	12.8	--	ND	40.9	--		63.94
Carbon tetrachloride	ND	12.8	--	ND	80.5	--		63.94
Cyclohexane	ND	12.8	--	ND	44.1	--		63.94
1,2-Dichloropropane	ND	12.8	--	ND	59.2	--		63.94
Xylene (Total)	ND	12.8	--	ND	55.6	--		63.94
Bromodichloromethane	ND	12.8	--	ND	85.8	--		63.94
1,4-Dioxane	ND	12.8	--	ND	46.1	--		63.94
Trichloroethene	88.6	12.8	--	476	68.8	--		63.94
2,2,4-Trimethylpentane	ND	12.8	--	ND	59.8	--		63.94
Heptane	ND	12.8	--	ND	52.5	--		63.94
cis-1,3-Dichloropropene	ND	12.8	--	ND	58.1	--		63.94
4-Methyl-2-pentanone	ND	32.0	--	ND	131	--		63.94
trans-1,3-Dichloropropene	ND	12.8	--	ND	58.1	--		63.94
1,1,2-Trichloroethane	ND	12.8	--	ND	69.8	--		63.94
Toluene	ND	12.8	--	ND	48.2	--		63.94
1,2-Dichloroethene (total)	210	12.8	--	833	50.7	--		63.94
2-Hexanone	ND	12.8	--	ND	52.5	--		63.94
1,3-Dichloropropene, Total	ND	12.8	--	ND	58.1	--		63.94
Dibromochloromethane	ND	12.8	--	ND	109	--		63.94
1,2-Dibromoethane	ND	12.8	--	ND	98.4	--		63.94

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:32
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	4070	12.8	--	27600	86.8	--		63.94
Chlorobenzene	ND	12.8	--	ND	58.9	--		63.94
Ethylbenzene	ND	12.8	--	ND	55.6	--		63.94
p/m-Xylene	ND	25.6	--	ND	111	--		63.94
Bromoform	ND	12.8	--	ND	132	--		63.94
Styrene	ND	12.8	--	ND	54.5	--		63.94
1,1,2,2-Tetrachloroethane	ND	12.8	--	ND	87.9	--		63.94
o-Xylene	ND	12.8	--	ND	55.6	--		63.94
4-Ethyltoluene	ND	12.8	--	ND	62.9	--		63.94
1,3,5-Trimethylbenzene	ND	12.8	--	ND	62.9	--		63.94
1,2,4-Trimethylbenzene	ND	12.8	--	ND	62.9	--		63.94
Benzyl chloride	ND	12.8	--	ND	66.3	--		63.94
1,3-Dichlorobenzene	ND	12.8	--	ND	77.0	--		63.94
1,4-Dichlorobenzene	ND	12.8	--	ND	77.0	--		63.94
1,2-Dichlorobenzene	ND	12.8	--	ND	77.0	--		63.94
1,2,4-Trichlorobenzene	ND	12.8	--	ND	95.0	--		63.94
Hexachlorobutadiene	ND	12.8	--	ND	137	--		63.94

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:38
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/04/19 03:56
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	17.4	--	ND	86.0	--		86.81
Chloromethane	ND	17.4	--	ND	35.9	--		86.81
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	17.4	--	ND	122	--		86.81
Vinyl chloride	ND	17.4	--	ND	44.5	--		86.81
1,3-Butadiene	ND	17.4	--	ND	38.5	--		86.81
Bromomethane	ND	17.4	--	ND	67.6	--		86.81
Chloroethane	ND	17.4	--	ND	45.9	--		86.81
Ethyl Alcohol	ND	434	--	ND	818	--		86.81
Vinyl bromide	ND	17.4	--	ND	76.1	--		86.81
Acetone	ND	86.8	--	ND	206	--		86.81
Trichlorofluoromethane	ND	17.4	--	ND	97.8	--		86.81
iso-Propyl Alcohol	ND	43.4	--	ND	107	--		86.81
1,1-Dichloroethene	ND	17.4	--	ND	69.0	--		86.81
tert-Butyl Alcohol	ND	43.4	--	ND	132	--		86.81
Methylene chloride	ND	43.4	--	ND	151	--		86.81
3-Chloropropene	ND	17.4	--	ND	54.5	--		86.81
Carbon disulfide	ND	17.4	--	ND	54.2	--		86.81
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	17.4	--	ND	133	--		86.81
trans-1,2-Dichloroethene	23.2	17.4	--	92.0	69.0	--		86.81
1,1-Dichloroethane	ND	17.4	--	ND	70.4	--		86.81
Methyl tert butyl ether	ND	17.4	--	ND	62.7	--		86.81
2-Butanone	ND	43.4	--	ND	128	--		86.81
cis-1,2-Dichloroethene	3640	17.4	--	14400	69.0	--		86.81

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:38
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	43.4	--	ND	156	--		86.81
Chloroform	ND	17.4	--	ND	85.0	--		86.81
Tetrahydrofuran	ND	43.4	--	ND	128	--		86.81
1,2-Dichloroethane	ND	17.4	--	ND	70.4	--		86.81
n-Hexane	ND	17.4	--	ND	61.3	--		86.81
1,1,1-Trichloroethane	ND	17.4	--	ND	94.9	--		86.81
Benzene	ND	17.4	--	ND	55.6	--		86.81
Carbon tetrachloride	ND	17.4	--	ND	109	--		86.81
Cyclohexane	ND	17.4	--	ND	59.9	--		86.81
1,2-Dichloropropane	ND	17.4	--	ND	80.4	--		86.81
Bromodichloromethane	ND	17.4	--	ND	117	--		86.81
Xylene (Total)	ND	17.4	--	ND	75.6	--		86.81
1,4-Dioxane	ND	17.4	--	ND	62.7	--		86.81
Trichloroethene	1110	17.4	--	5970	93.5	--		86.81
2,2,4-Trimethylpentane	ND	17.4	--	ND	81.3	--		86.81
Heptane	ND	17.4	--	ND	71.3	--		86.81
cis-1,3-Dichloropropene	ND	17.4	--	ND	79.0	--		86.81
4-Methyl-2-pentanone	ND	43.4	--	ND	178	--		86.81
trans-1,3-Dichloropropene	ND	17.4	--	ND	79.0	--		86.81
1,1,2-Trichloroethane	ND	17.4	--	ND	94.9	--		86.81
Toluene	ND	17.4	--	ND	65.6	--		86.81
1,2-Dichloroethene (total)	3660	17.4	--	14500	69.0	--		86.81
2-Hexanone	ND	17.4	--	ND	71.3	--		86.81
Dibromochloromethane	ND	17.4	--	ND	148	--		86.81
1,3-Dichloropropene, Total	ND	17.4	--	ND	79.0	--		86.81
1,2-Dibromoethane	ND	17.4	--	ND	134	--		86.81

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:38
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	5550	17.4	--	37600	118	--		86.81
Chlorobenzene	ND	17.4	--	ND	80.1	--		86.81
Ethylbenzene	ND	17.4	--	ND	75.6	--		86.81
p/m-Xylene	ND	34.7	--	ND	151	--		86.81
Bromoform	ND	17.4	--	ND	180	--		86.81
Styrene	ND	17.4	--	ND	74.1	--		86.81
1,1,2,2-Tetrachloroethane	ND	17.4	--	ND	119	--		86.81
o-Xylene	ND	17.4	--	ND	75.6	--		86.81
4-Ethyltoluene	ND	17.4	--	ND	85.5	--		86.81
1,3,5-Trimethylbenzene	ND	17.4	--	ND	85.5	--		86.81
1,2,4-Trimethylbenzene	ND	17.4	--	ND	85.5	--		86.81
Benzyl chloride	ND	17.4	--	ND	90.1	--		86.81
1,3-Dichlorobenzene	ND	17.4	--	ND	105	--		86.81
1,4-Dichlorobenzene	ND	17.4	--	ND	105	--		86.81
1,2-Dichlorobenzene	ND	17.4	--	ND	105	--		86.81
1,2,4-Trichlorobenzene	ND	17.4	--	ND	129	--		86.81
Hexachlorobutadiene	ND	17.4	--	ND	186	--		86.81

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:45
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/04/19 04:33
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	3.44	1.00	--	8.79	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethyl Alcohol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	ND	5.00	--	ND	11.9	--		5
Trichlorofluoromethane	ND	1.00	--	ND	5.62	--		5
iso-Propyl Alcohol	ND	2.50	--	ND	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
tert-Butyl Alcohol	ND	2.50	--	ND	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	2.38	1.00	--	9.44	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	ND	2.50	--	ND	7.37	--		5
cis-1,2-Dichloroethene	271	1.00	--	1070	3.96	--		5

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:45
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	ND	1.00	--	ND	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	ND	1.00	--	ND	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
Xylene (Total)	ND	1.00	--	ND	4.34	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	ND	1.00	--	ND	3.77	--		5
1,2-Dichloroethene (total)	273	1.00	--	1080	3.96	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
1,3-Dichloropropene, Total	ND	1.00	--	ND	4.54	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

SAMPLE RESULTS

Lab ID: L1945124-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 09/27/19 09:45
Date Received: 09/27/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	ND	1.00	--	ND	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	ND	1.00	--	ND	4.34	--		5
p/m-Xylene	ND	2.00	--	ND	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	ND	1.00	--	ND	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1945124
Report Date: 10/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/03/19 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1291894-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1945124
Report Date: 10/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/03/19 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1291894-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1945124
Report Date: 10/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/03/19 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1291894-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1945124
Report Date: 10/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/03/19 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1291894-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1945124
Report Date: 10/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/03/19 14:52

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1291894-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1291894-3								
Chlorodifluoromethane	81		-		70-130	-		
Propylene	94		-		70-130	-		
Propane	87		-		70-130	-		
Dichlorodifluoromethane	83		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	85		-		70-130	-		
Methanol	116		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Butane	73		-		70-130	-		
Bromomethane	85		-		70-130	-		
Chloroethane	81		-		70-130	-		
Ethyl Alcohol	76		-		40-160	-		
Dichlorofluoromethane	73		-		70-130	-		
Vinyl bromide	75		-		70-130	-		
Acrolein	74		-		70-130	-		
Acetone	64		-		40-160	-		
Acetonitrile	71		-		70-130	-		
Trichlorofluoromethane	76		-		70-130	-		
iso-Propyl Alcohol	68		-		40-160	-		
Acrylonitrile	83		-		70-130	-		
Pentane	70		-		70-130	-		
Ethyl ether	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1945124

Report Date: 10/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1291894-3								
1,1-Dichloroethene	81		-		70-130	-		
tert-Butyl Alcohol	71		-		70-130	-		
Methylene chloride	87		-		70-130	-		
3-Chloropropene	79		-		70-130	-		
Carbon disulfide	73		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	77		-		70-130	-		
trans-1,2-Dichloroethene	76		-		70-130	-		
1,1-Dichloroethane	75		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
Vinyl acetate	86		-		70-130	-		
2-Butanone	86		-		70-130	-		
cis-1,2-Dichloroethene	79		-		70-130	-		
Ethyl Acetate	85		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
2,2-Dichloropropane	71		-		70-130	-		
1,2-Dichloroethane	75		-		70-130	-		
n-Hexane	95		-		70-130	-		
Isopropyl Ether	96		-		70-130	-		
Ethyl-Tert-Butyl-Ether	83		-		70-130	-		
1,2-Dichloroethene (total)	78		-			-		
1,2-Dichloroethene (total)	78		-			-		
1,1,1-Trichloroethane	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1291894-3								
1,1-Dichloropropene	91		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	103		-		70-130	-		
Cyclohexane	97		-		70-130	-		
Tertiary-Amyl Methyl Ether	85		-		70-130	-		
Dibromomethane	86		-		70-130	-		
1,2-Dichloropropane	87		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	94		-		70-130	-		
Methyl Methacrylate	75		-		40-160	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	101		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	90		-		70-130	-		
Toluene	86		-		70-130	-		
1,3-Dichloropropane	86		-		70-130	-		
2-Hexanone	80		-		70-130	-		
Dibromochloromethane	101		-		70-130	-		
1,2-Dibromoethane	90		-		70-130	-		
Butyl Acetate	77		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1291894-3								
Octane	86		-		70-130	-		
Tetrachloroethene	86		-		70-130	-		
1,1,1,2-Tetrachloroethane	90		-		70-130	-		
Chlorobenzene	89		-		70-130	-		
Ethylbenzene	86		-		70-130	-		
p/m-Xylene	87		-		70-130	-		
Bromoform	105		-		70-130	-		
Styrene	86		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	88		-		70-130	-		
1,2,3-Trichloropropane	87		-		70-130	-		
Nonane (C9)	85		-		70-130	-		
Isopropylbenzene	84		-		70-130	-		
Bromobenzene	89		-		70-130	-		
o-Chlorotoluene	80		-		70-130	-		
n-Propylbenzene	85		-		70-130	-		
p-Chlorotoluene	82		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		
1,3,5-Trimethylbenzene	91		-		70-130	-		
tert-Butylbenzene	91		-		70-130	-		
1,2,4-Trimethylbenzene	95		-		70-130	-		
Decane (C10)	94		-		70-130	-		
Benzyl chloride	101		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1291894-3								
1,3-Dichlorobenzene	90		-		70-130	-		
1,4-Dichlorobenzene	89		-		70-130	-		
sec-Butylbenzene	91		-		70-130	-		
p-Isopropyltoluene	92		-		70-130	-		
1,2-Dichlorobenzene	95		-		70-130	-		
n-Butylbenzene	102		-		70-130	-		
1,2-Dibromo-3-chloropropane	121		-		70-130	-		
Undecane	90		-		70-130	-		
Dodecane (C12)	78		-		70-130	-		
1,2,4-Trichlorobenzene	106		-		70-130	-		
Naphthalene	95		-		70-130	-		
1,2,3-Trichlorobenzene	86		-		70-130	-		
Hexachlorobutadiene	94		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1945124

Project Number:

Report Date: 10/04/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1945124-01	SVE-1	206	2.7L Can	09/06/19	298295	L1939276-04	Pass	-29.5	-3.9	-	-	-	-
L1945124-02	SVE-2	476	2.7L Can	09/06/19	298295	L1938543-01	Pass	-29.6	-3.9	-	-	-	-
L1945124-03	SVE-3	484	2.7L Can	09/06/19	298295	L1939276-04	Pass	-29.7	-3.2	-	-	-	-
L1945124-04	STACK EFFLUENT	135	2.7L Can	09/06/19	298295	L1939276-04	Pass	-29.5	-1.5	-	-	-	-

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

Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/26/19 17:26
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1938543

Project Number: CANISTER QC BAT **Report Date:** 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1938543

Project Number: CANISTER QC BAT **Report Date:** 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/26/19 17:26
Analyst: TS

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

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

Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1938543
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1938543-01
Client ID: CAN 538 SHELF 5
Sample Location:

Date Collected: 08/24/19 12:00
Date Received: 08/26/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/29/19 18:44
Analyst: RY

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/29/19 18:44
Analyst: RY

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1939276
Report Date: 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1939276

Project Number: CANISTER QC BAT **Report Date:** 10/04/19

Air Canister Certification Results

Lab ID: L1939276-04
Client ID: CAN 496 SHELF 16
Sample Location:

Date Collected: 08/28/19 16:00
Date Received: 08/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1945124
Report Date: 10/04/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1945124-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1945124-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1945124-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1945124-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1945124
Project Number:	Not Specified	**Report Date:**	10/04/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1945124
Project Number:	Not Specified	**Report Date:**	10/04/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 9/27/19

ALPHA Job #: L1945124

Client Information

Client: ALPINE ENVIRONMENTAL
Address: 438 NEW KARNER RD
ALBANY NY
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:

ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH ☐ Submit Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
45124.01	SVE-1	9/27/19	924	9:25	-30	-4	SG	KB	2.7L	206	—	X					
.02	SVE-2	9/27/19	931	932	-30	-5	SG	KB	2.7L	476	—	X					
.03	SVE-3	9/27/19	937	938	-30	-5	SG	KB	2.7L	484	—	X					
.04	STACK EFFLUENT	9/27/19	944	945	-30	-2	SG KB	KB	2.7L	135	—	X					

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Robert Haine	9/27/19 1040	Robert Haine AAL	927-19 10:40
H. Hicks	9-27-19 10:40	H. Hicks	9-27-19 13:15
H. Hicks	9-27-19, 17:30		9/27/19 1730

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:	L1951296
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	11/06/19

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1951296-01	SVE-1	SOIL_VAPOR	ALBANY, NY	10/30/19 13:08	10/30/19
L1951296-02	SVE-2	SOIL_VAPOR	ALBANY, NY	10/30/19 13:15	10/30/19
L1951296-03	SVE-3	SOIL_VAPOR	ALBANY, NY	10/30/19 13:23	10/30/19
L1951296-04	EX STACK	SOIL_VAPOR	ALBANY, NY	10/30/19 13:28	10/30/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1951296
Project Number:	Not Specified	**Report Date:**	11/06/19

Case Narrative

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

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

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

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

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

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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 8, 2019. The canister certification results are provided as an addendum.

L1951296-01-03: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1304327-3 LCS recovery for ethyl acetate (137%), benzyl chloride (147%), n-butylbenzene (132%) and 1,2,4-trichlorobenzene (134%) 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: 11/06/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:08
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/05/19 03:47
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	27.0	--	ND	134	--		135.1
Chloromethane	ND	27.0	--	ND	55.8	--		135.1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	27.0	--	ND	189	--		135.1
Vinyl chloride	ND	27.0	--	ND	69.0	--		135.1
1,3-Butadiene	ND	27.0	--	ND	59.7	--		135.1
Bromomethane	ND	27.0	--	ND	105	--		135.1
Chloroethane	ND	27.0	--	ND	71.2	--		135.1
Ethyl Alcohol	ND	676	--	ND	1270	--		135.1
Vinyl bromide	ND	27.0	--	ND	118	--		135.1
Acetone	ND	135	--	ND	321	--		135.1
Trichlorofluoromethane	ND	27.0	--	ND	152	--		135.1
iso-Propyl Alcohol	ND	67.6	--	ND	166	--		135.1
1,1-Dichloroethene	ND	27.0	--	ND	107	--		135.1
tert-Butyl Alcohol	ND	67.6	--	ND	205	--		135.1
Methylene chloride	ND	67.6	--	ND	235	--		135.1
3-Chloropropene	ND	27.0	--	ND	84.5	--		135.1
Carbon disulfide	ND	27.0	--	ND	84.1	--		135.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	27.0	--	ND	207	--		135.1
trans-1,2-Dichloroethene	ND	27.0	--	ND	107	--		135.1
1,1-Dichloroethane	ND	27.0	--	ND	109	--		135.1
Methyl tert butyl ether	ND	27.0	--	ND	97.3	--		135.1
2-Butanone	ND	67.6	--	ND	199	--		135.1
cis-1,2-Dichloroethene	312	27.0	--	1240	107	--		135.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:08
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	67.6	--	ND	244	--		135.1
Chloroform	ND	27.0	--	ND	132	--		135.1
Tetrahydrofuran	ND	67.6	--	ND	199	--		135.1
1,2-Dichloroethane	ND	27.0	--	ND	109	--		135.1
n-Hexane	ND	27.0	--	ND	95.2	--		135.1
1,1,1-Trichloroethane	ND	27.0	--	ND	147	--		135.1
Benzene	ND	27.0	--	ND	86.3	--		135.1
Carbon tetrachloride	ND	27.0	--	ND	170	--		135.1
Cyclohexane	ND	27.0	--	ND	92.9	--		135.1
1,2-Dichloropropane	ND	27.0	--	ND	125	--		135.1
Xylene (Total)	ND	27.0	--	ND	117	--		135.1
Bromodichloromethane	ND	27.0	--	ND	181	--		135.1
1,4-Dioxane	ND	27.0	--	ND	97.3	--		135.1
Trichloroethene	160	27.0	--	860	145	--		135.1
2,2,4-Trimethylpentane	ND	27.0	--	ND	126	--		135.1
Heptane	ND	27.0	--	ND	111	--		135.1
cis-1,3-Dichloropropene	ND	27.0	--	ND	123	--		135.1
4-Methyl-2-pentanone	ND	67.6	--	ND	277	--		135.1
trans-1,3-Dichloropropene	ND	27.0	--	ND	123	--		135.1
1,1,2-Trichloroethane	ND	27.0	--	ND	147	--		135.1
Toluene	ND	27.0	--	ND	102	--		135.1
1,2-Dichloroethene (total)	312	27.0	--	1240	107	--		135.1
2-Hexanone	ND	27.0	--	ND	111	--		135.1
1,3-Dichloropropene, Total	ND	27.0	--	ND	123	--		135.1
Dibromochloromethane	ND	27.0	--	ND	230	--		135.1
1,2-Dibromoethane	ND	27.0	--	ND	207	--		135.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:08
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	11000	27.0	--	74600	183	--		135.1
Chlorobenzene	ND	27.0	--	ND	124	--		135.1
Ethylbenzene	ND	27.0	--	ND	117	--		135.1
p/m-Xylene	ND	54.0	--	ND	235	--		135.1
Bromoform	ND	27.0	--	ND	279	--		135.1
Styrene	ND	27.0	--	ND	115	--		135.1
1,1,2,2-Tetrachloroethane	ND	27.0	--	ND	185	--		135.1
o-Xylene	ND	27.0	--	ND	117	--		135.1
4-Ethyltoluene	ND	27.0	--	ND	133	--		135.1
1,3,5-Trimethylbenzene	ND	27.0	--	ND	133	--		135.1
1,2,4-Trimethylbenzene	ND	27.0	--	ND	133	--		135.1
Benzyl chloride	ND	27.0	--	ND	140	--		135.1
1,3-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,4-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,2-Dichlorobenzene	ND	27.0	--	ND	162	--		135.1
1,2,4-Trichlorobenzene	ND	27.0	--	ND	200	--		135.1
Hexachlorobutadiene	ND	27.0	--	ND	288	--		135.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	89		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:15
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/05/19 06:45
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.31	--	ND	31.2	--		31.57
Chloromethane	ND	6.31	--	ND	13.0	--		31.57
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	6.31	--	ND	44.1	--		31.57
Vinyl chloride	ND	6.31	--	ND	16.1	--		31.57
1,3-Butadiene	ND	6.31	--	ND	14.0	--		31.57
Bromomethane	ND	6.31	--	ND	24.5	--		31.57
Chloroethane	ND	6.31	--	ND	16.7	--		31.57
Ethyl Alcohol	ND	158	--	ND	298	--		31.57
Vinyl bromide	ND	6.31	--	ND	27.6	--		31.57
Acetone	ND	31.6	--	ND	75.1	--		31.57
Trichlorofluoromethane	ND	6.31	--	ND	35.5	--		31.57
iso-Propyl Alcohol	ND	15.8	--	ND	38.8	--		31.57
1,1-Dichloroethene	ND	6.31	--	ND	25.0	--		31.57
tert-Butyl Alcohol	ND	15.8	--	ND	47.9	--		31.57
Methylene chloride	ND	15.8	--	ND	54.9	--		31.57
3-Chloropropene	ND	6.31	--	ND	19.8	--		31.57
Carbon disulfide	ND	6.31	--	ND	19.7	--		31.57
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.31	--	ND	48.4	--		31.57
trans-1,2-Dichloroethene	ND	6.31	--	ND	25.0	--		31.57
1,1-Dichloroethane	ND	6.31	--	ND	25.5	--		31.57
Methyl tert butyl ether	ND	6.31	--	ND	22.7	--		31.57
2-Butanone	ND	15.8	--	ND	46.6	--		31.57
cis-1,2-Dichloroethene	157	6.31	--	622	25.0	--		31.57

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:15
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	15.8	--	ND	56.9	--		31.57
Chloroform	7.35	6.31	--	35.9	30.8	--		31.57
Tetrahydrofuran	ND	15.8	--	ND	46.6	--		31.57
1,2-Dichloroethane	ND	6.31	--	ND	25.5	--		31.57
n-Hexane	ND	6.31	--	ND	22.2	--		31.57
1,1,1-Trichloroethane	ND	6.31	--	ND	34.4	--		31.57
Benzene	ND	6.31	--	ND	20.2	--		31.57
Carbon tetrachloride	ND	6.31	--	ND	39.7	--		31.57
Cyclohexane	ND	6.31	--	ND	21.7	--		31.57
1,2-Dichloropropane	ND	6.31	--	ND	29.2	--		31.57
Bromodichloromethane	ND	6.31	--	ND	42.3	--		31.57
Xylene (Total)	ND	6.31	--	ND	27.4	--		31.57
1,4-Dioxane	ND	6.31	--	ND	22.7	--		31.57
Trichloroethene	52.9	6.31	--	284	33.9	--		31.57
2,2,4-Trimethylpentane	ND	6.31	--	ND	29.5	--		31.57
Heptane	ND	6.31	--	ND	25.9	--		31.57
cis-1,3-Dichloropropene	ND	6.31	--	ND	28.6	--		31.57
4-Methyl-2-pentanone	ND	15.8	--	ND	64.8	--		31.57
trans-1,3-Dichloropropene	ND	6.31	--	ND	28.6	--		31.57
1,1,2-Trichloroethane	ND	6.31	--	ND	34.4	--		31.57
Toluene	ND	6.31	--	ND	23.8	--		31.57
1,2-Dichloroethene (total)	157	6.31	--	622	25.0	--		31.57
2-Hexanone	ND	6.31	--	ND	25.9	--		31.57
Dibromochloromethane	ND	6.31	--	ND	53.8	--		31.57
1,3-Dichloropropene, Total	ND	6.31	--	ND	28.6	--		31.57
1,2-Dibromoethane	ND	6.31	--	ND	48.5	--		31.57

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:15
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	2040	6.31	--	13800	42.8	--		31.57
Chlorobenzene	ND	6.31	--	ND	29.1	--		31.57
Ethylbenzene	ND	6.31	--	ND	27.4	--		31.57
p/m-Xylene	ND	12.6	--	ND	54.7	--		31.57
Bromoform	ND	6.31	--	ND	65.2	--		31.57
Styrene	ND	6.31	--	ND	26.9	--		31.57
1,1,2,2-Tetrachloroethane	ND	6.31	--	ND	43.3	--		31.57
o-Xylene	ND	6.31	--	ND	27.4	--		31.57
4-Ethyltoluene	ND	6.31	--	ND	31.0	--		31.57
1,3,5-Trimethylbenzene	ND	6.31	--	ND	31.0	--		31.57
1,2,4-Trimethylbenzene	ND	6.31	--	ND	31.0	--		31.57
Benzyl chloride	ND	6.31	--	ND	32.7	--		31.57
1,3-Dichlorobenzene	ND	6.31	--	ND	37.9	--		31.57
1,4-Dichlorobenzene	ND	6.31	--	ND	37.9	--		31.57
1,2-Dichlorobenzene	ND	6.31	--	ND	37.9	--		31.57
1,2,4-Trichlorobenzene	ND	6.31	--	ND	46.8	--		31.57
Hexachlorobutadiene	ND	6.31	--	ND	67.3	--		31.57

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:23
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/05/19 07:23
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	8.21	--	ND	40.6	--		41.05
Chloromethane	ND	8.21	--	ND	17.0	--		41.05
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	8.21	--	ND	57.4	--		41.05
Vinyl chloride	ND	8.21	--	ND	21.0	--		41.05
1,3-Butadiene	ND	8.21	--	ND	18.2	--		41.05
Bromomethane	ND	8.21	--	ND	31.9	--		41.05
Chloroethane	ND	8.21	--	ND	21.7	--		41.05
Ethyl Alcohol	ND	205	--	ND	386	--		41.05
Vinyl bromide	ND	8.21	--	ND	35.9	--		41.05
Acetone	ND	41.0	--	ND	97.4	--		41.05
Trichlorofluoromethane	ND	8.21	--	ND	46.1	--		41.05
iso-Propyl Alcohol	ND	20.5	--	ND	50.4	--		41.05
1,1-Dichloroethene	ND	8.21	--	ND	32.6	--		41.05
tert-Butyl Alcohol	ND	20.5	--	ND	62.1	--		41.05
Methylene chloride	ND	20.5	--	ND	71.2	--		41.05
3-Chloropropene	ND	8.21	--	ND	25.7	--		41.05
Carbon disulfide	ND	8.21	--	ND	25.6	--		41.05
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.21	--	ND	62.9	--		41.05
trans-1,2-Dichloroethene	11.6	8.21	--	46.0	32.6	--		41.05
1,1-Dichloroethane	ND	8.21	--	ND	33.2	--		41.05
Methyl tert butyl ether	ND	8.21	--	ND	29.6	--		41.05
2-Butanone	ND	20.5	--	ND	60.5	--		41.05
cis-1,2-Dichloroethene	2170	8.21	--	8600	32.6	--		41.05

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:23
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	20.5	--	ND	73.9	--		41.05
Chloroform	ND	8.21	--	ND	40.1	--		41.05
Tetrahydrofuran	ND	20.5	--	ND	60.5	--		41.05
1,2-Dichloroethane	ND	8.21	--	ND	33.2	--		41.05
n-Hexane	ND	8.21	--	ND	28.9	--		41.05
1,1,1-Trichloroethane	ND	8.21	--	ND	44.8	--		41.05
Benzene	ND	8.21	--	ND	26.2	--		41.05
Carbon tetrachloride	ND	8.21	--	ND	51.6	--		41.05
Cyclohexane	ND	8.21	--	ND	28.3	--		41.05
1,2-Dichloropropane	ND	8.21	--	ND	37.9	--		41.05
Bromodichloromethane	ND	8.21	--	ND	55.0	--		41.05
Xylene (Total)	ND	8.21	--	ND	35.7	--		41.05
1,4-Dioxane	ND	8.21	--	ND	29.6	--		41.05
Trichloroethene	550	8.21	--	2960	44.1	--		41.05
2,2,4-Trimethylpentane	ND	8.21	--	ND	38.3	--		41.05
Heptane	ND	8.21	--	ND	33.6	--		41.05
cis-1,3-Dichloropropene	ND	8.21	--	ND	37.3	--		41.05
4-Methyl-2-pentanone	ND	20.5	--	ND	84.0	--		41.05
trans-1,3-Dichloropropene	ND	8.21	--	ND	37.3	--		41.05
1,1,2-Trichloroethane	ND	8.21	--	ND	44.8	--		41.05
Toluene	ND	8.21	--	ND	30.9	--		41.05
1,2-Dichloroethene (total)	2180	8.21	--	8640	32.6	--		41.05
2-Hexanone	ND	8.21	--	ND	33.6	--		41.05
Dibromochloromethane	ND	8.21	--	ND	69.9	--		41.05
1,3-Dichloropropene, Total	ND	8.21	--	ND	37.3	--		41.05
1,2-Dibromoethane	ND	8.21	--	ND	63.1	--		41.05

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:23
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	2810	8.21	--	19100	55.7	--		41.05
Chlorobenzene	ND	8.21	--	ND	37.8	--		41.05
Ethylbenzene	ND	8.21	--	ND	35.7	--		41.05
p/m-Xylene	ND	16.4	--	ND	71.2	--		41.05
Bromoform	ND	8.21	--	ND	84.9	--		41.05
Styrene	ND	8.21	--	ND	35.0	--		41.05
1,1,2,2-Tetrachloroethane	ND	8.21	--	ND	56.4	--		41.05
o-Xylene	ND	8.21	--	ND	35.7	--		41.05
4-Ethyltoluene	ND	8.21	--	ND	40.4	--		41.05
1,3,5-Trimethylbenzene	ND	8.21	--	ND	40.4	--		41.05
1,2,4-Trimethylbenzene	ND	8.21	--	ND	40.4	--		41.05
Benzyl chloride	ND	8.21	--	ND	42.5	--		41.05
1,3-Dichlorobenzene	ND	8.21	--	ND	49.4	--		41.05
1,4-Dichlorobenzene	ND	8.21	--	ND	49.4	--		41.05
1,2-Dichlorobenzene	ND	8.21	--	ND	49.4	--		41.05
1,2,4-Trichlorobenzene	ND	8.21	--	ND	60.9	--		41.05
Hexachlorobutadiene	ND	8.21	--	ND	87.6	--		41.05

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-04
Client ID: EX STACK
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:28
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 11/05/19 03:10
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.21	0.200	--	5.98	0.989	--		1
Chloromethane	0.607	0.200	--	1.25	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.707	0.200	--	1.81	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
Ethyl Alcohol	30.9	5.00	--	58.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	19.2	1.00	--	45.6	2.38	--		1
Trichlorofluoromethane	0.496	0.200	--	2.79	1.12	--		1
iso-Propyl Alcohol	26.6	0.500	--	65.4	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.699	0.500	--	2.43	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	0.350	0.200	--	1.39	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	1.81	0.500	--	5.34	1.47	--		1
cis-1,2-Dichloroethene	55.0	0.200	--	218	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-04
Client ID: EX STACK
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:28
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.10	0.500	--	3.24	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.223	0.200	--	0.786	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	4.52	0.200	--	14.4	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.315	0.200	--	1.08	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Xylene (Total)	0.422	0.200	--	1.83	0.869	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.98	0.200	--	10.6	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.831	0.200	--	3.41	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	1.35	0.200	--	5.09	0.754	--		1
1,2-Dichloroethene (total)	55.3	0.200	--	219	0.793	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

SAMPLE RESULTS

Lab ID: L1951296-04
Client ID: EX STACK
Sample Location: ALBANY, NY

Date Collected: 10/30/19 13:28
Date Received: 10/30/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	46.3	0.200	--	314	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.422	0.400	--	1.83	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.233	0.200	--	1.15	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
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/04/19 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1304327-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/04/19 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1304327-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/04/19 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1304327-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/04/19 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1304327-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 11/04/19 15:14

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1304327-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1304327-3								
Chlorodifluoromethane	90		-		70-130	-		
Propylene	111		-		70-130	-		
Propane	89		-		70-130	-		
Dichlorodifluoromethane	107		-		70-130	-		
Chloromethane	89		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	86		-		70-130	-		
Vinyl chloride	107		-		70-130	-		
1,3-Butadiene	96		-		70-130	-		
Butane	89		-		70-130	-		
Bromomethane	112		-		70-130	-		
Chloroethane	110		-		70-130	-		
Ethyl Alcohol	102		-		40-160	-		
Dichlorofluoromethane	100		-		70-130	-		
Vinyl bromide	108		-		70-130	-		
Acrolein	87		-		70-130	-		
Acetone	83		-		40-160	-		
Acetonitrile	93		-		70-130	-		
Trichlorofluoromethane	120		-		70-130	-		
iso-Propyl Alcohol	87		-		40-160	-		
Acrylonitrile	87		-		70-130	-		
Pentane	89		-		70-130	-		
Ethyl ether	75		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1304327-3								
1,1-Dichloroethene	107		-		70-130	-		
tert-Butyl Alcohol	100		-		70-130	-		
Methylene chloride	89		-		70-130	-		
3-Chloropropene	96		-		70-130	-		
Carbon disulfide	85		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		-		70-130	-		
trans-1,2-Dichloroethene	110		-		70-130	-		
1,1-Dichloroethane	113		-		70-130	-		
Methyl tert butyl ether	116		-		70-130	-		
Vinyl acetate	106		-		70-130	-		
2-Butanone	106		-		70-130	-		
cis-1,2-Dichloroethene	117		-		70-130	-		
Ethyl Acetate	**137**	Q	-		70-130	-		
Chloroform	112		-		70-130	-		
Tetrahydrofuran	109		-		70-130	-		
2,2-Dichloropropane	105		-		70-130	-		
1,2-Dichloroethane	116		-		70-130	-		
n-Hexane	100		-		70-130	-		
Isopropyl Ether	101		-		70-130	-		
Ethyl-Tert-Butyl-Ether	103		-		70-130	-		
1,2-Dichloroethene (total)	114		-			-		
1,2-Dichloroethene (total)	114		-			-		
1,1,1-Trichloroethane	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1304327-3								
1,1-Dichloropropene	89		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		
Cyclohexane	100		-		70-130	-		
Tertiary-Amyl Methyl Ether	97		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	106		-		70-130	-		
2,2,4-Trimethylpentane	104		-		70-130	-		
Methyl Methacrylate	74		-		40-160	-		
Heptane	89		-		70-130	-		
cis-1,3-Dichloropropene	99		-		70-130	-		
4-Methyl-2-pentanone	98		-		70-130	-		
trans-1,3-Dichloropropene	86		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	103		-		70-130	-		
1,3-Dichloropropane	88		-		70-130	-		
2-Hexanone	91		-		70-130	-		
Dibromochloromethane	113		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		
Butyl Acetate	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1304327-3								
Octane	97		-		70-130	-		
Tetrachloroethene	106		-		70-130	-		
1,1,1,2-Tetrachloroethane	104		-		70-130	-		
Chlorobenzene	105		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	120		-		70-130	-		
Styrene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	111		-		70-130	-		
1,2,3-Trichloropropane	96		-		70-130	-		
Nonane (C9)	86		-		70-130	-		
Isopropylbenzene	104		-		70-130	-		
Bromobenzene	96		-		70-130	-		
o-Chlorotoluene	103		-		70-130	-		
n-Propylbenzene	108		-		70-130	-		
p-Chlorotoluene	106		-		70-130	-		
4-Ethyltoluene	111		-		70-130	-		
1,3,5-Trimethylbenzene	116		-		70-130	-		
tert-Butylbenzene	116		-		70-130	-		
1,2,4-Trimethylbenzene	120		-		70-130	-		
Decane (C10)	118		-		70-130	-		
Benzyl chloride	**147**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1304327-3								
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	119		-		70-130	-		
sec-Butylbenzene	114		-		70-130	-		
p-Isopropyltoluene	115		-		70-130	-		
1,2-Dichlorobenzene	125		-		70-130	-		
n-Butylbenzene	**132**	Q	-		70-130	-		
1,2-Dibromo-3-chloropropane	121		-		70-130	-		
Undecane	116		-		70-130	-		
Dodecane (C12)	103		-		70-130	-		
1,2,4-Trichlorobenzene	**134**	Q	-		70-130	-		
Naphthalene	128		-		70-130	-		
1,2,3-Trichlorobenzene	117		-		70-130	-		
Hexachlorobutadiene	126		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1951296

Project Number:

Report Date: 11/06/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1951296-01	SVE-1	222	2.7L Can	10/08/19	298296	L1945593-05	Pass	-2.95	-4.0	-	-	-	-
L1951296-02	SVE-2	2595	2.7L Can	10/08/19	298296	L1945593-05	Pass	-29.0	-3.5	-	-	-	-
L1951296-03	SVE-3	130	2.7L Can	10/08/19	298296	L1945593-05	Pass	-28.1	-2.5	-	-	-	-
L1951296-04	EX STACK	2873	2.7L Can	10/08/19	298296	L1945593-05	Pass	-28.6	0.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/02/19 19:25
Analyst: RY

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/02/19 19:25
Analyst: RY

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1945593
Report Date: 11/06/19

Air Canister Certification Results

Lab ID: L1945593-05
Client ID: CAN 2198 SHELF 1
Sample Location:

Date Collected: 10/02/19 09:00
Date Received: 10/02/19
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1951296
Report Date: 11/06/19

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(*)
L1951296-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1951296-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1951296-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1951296-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1951296
Project Number:	Not Specified	**Report Date:**	11/06/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1951296
Project Number:	Not Specified	**Report Date:**	11/06/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1951296
Report Date: 11/06/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

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

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 10/31/19

ALPHA Job #: L1951294

Client Information

Client: Alpine Environmental Services
Address: 438 New Karner Rd
Albany NY
Phone: 518-588-2104
Fax:
Email: KimB@Alpineenv.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: BAINES
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 #:

Attn Mark Schnitzer

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
51296-01	SVE-1	10/30	1307	1308	-30	-6	SOIL GAS	KB	2.7	222		X					
-02	SVE-2	10/30	1314	1315	-22	-4	SOIL GAS	KB	2.7	2595		X					
-03	SVE-3	10/30	1322	1323	-28	-4	SOIL GAS	KB	2.7	130		X					
-04	Ex Stack	10/30	1327	1328	-9	-1	SOIL GAS	KB	2.7	2873		X					

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Robert Hayes	10/30/19 1430	Robert Hayes AAL	10-30-19 14:30
T. Hamilton	10-30-19 14:30	T. Hamilton	10/31/19 0400
T. Hamilton	10/31/19 0450		10/31/19 1450

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:	L1957596
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	12/10/19

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

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1957596-01	STACK EFFLUENT	SOIL_VAPOR	ALBANY, NY	11/29/19 11:16	12/03/19
L1957596-02	SVE-1	SOIL_VAPOR	ALBANY, NY	11/29/19 11:22	12/03/19
L1957596-03	SVE-2	SOIL_VAPOR	ALBANY, NY	11/29/19 11:29	12/03/19
L1957596-04	SVE-3	SOIL_VAPOR	ALBANY, NY	11/29/19 11:40	12/03/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

Case Narrative

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

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

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

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

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

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

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

Case Narrative (continued)

Volatile Organics in Air

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

L1957596-01 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

The WG1318057-3 LCS recovery for benzyl chloride (134%) 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: 12/10/19

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-01 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:16
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/08/19 03:27
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.453	0.333	--	2.24	1.65	--		1.667
Chloromethane	ND	0.333	--	ND	0.688	--		1.667
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.333	--	ND	2.33	--		1.667
Vinyl chloride	2.43	0.333	--	6.21	0.851	--		1.667
1,3-Butadiene	ND	0.333	--	ND	0.737	--		1.667
Bromomethane	ND	0.333	--	ND	1.29	--		1.667
Chloroethane	ND	0.333	--	ND	0.879	--		1.667
Ethyl Alcohol	ND	8.34	--	ND	15.7	--		1.667
Vinyl bromide	ND	0.333	--	ND	1.46	--		1.667
Acetone	ND	1.67	--	ND	3.97	--		1.667
Trichlorofluoromethane	0.658	0.333	--	3.70	1.87	--		1.667
iso-Propyl Alcohol	ND	0.834	--	ND	2.05	--		1.667
1,1-Dichloroethene	ND	0.333	--	ND	1.32	--		1.667
tert-Butyl Alcohol	ND	0.834	--	ND	2.53	--		1.667
Methylene chloride	ND	0.834	--	ND	2.90	--		1.667
3-Chloropropene	ND	0.333	--	ND	1.04	--		1.667
Carbon disulfide	ND	0.333	--	ND	1.04	--		1.667
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.333	--	ND	2.55	--		1.667
trans-1,2-Dichloroethene	0.688	0.333	--	2.73	1.32	--		1.667
1,1-Dichloroethane	ND	0.333	--	ND	1.35	--		1.667
Methyl tert butyl ether	ND	0.333	--	ND	1.20	--		1.667
2-Butanone	ND	0.834	--	ND	2.46	--		1.667
cis-1,2-Dichloroethene	99.5	0.333	--	395	1.32	--		1.667

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-01 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:16
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.834	--	ND	3.01	--		1.667
Chloroform	ND	0.333	--	ND	1.63	--		1.667
Tetrahydrofuran	ND	0.834	--	ND	2.46	--		1.667
1,2-Dichloroethane	ND	0.333	--	ND	1.35	--		1.667
n-Hexane	ND	0.333	--	ND	1.17	--		1.667
1,1,1-Trichloroethane	ND	0.333	--	ND	1.82	--		1.667
Benzene	0.383	0.333	--	1.22	1.06	--		1.667
Carbon tetrachloride	ND	0.333	--	ND	2.09	--		1.667
Cyclohexane	ND	0.333	--	ND	1.15	--		1.667
1,2-Dichloropropane	ND	0.333	--	ND	1.54	--		1.667
Xylene (Total)	ND	0.333	--	ND	1.45	--		1.667
Bromodichloromethane	ND	0.333	--	ND	2.23	--		1.667
1,4-Dioxane	ND	0.333	--	ND	1.20	--		1.667
Trichloroethene	ND	0.333	--	ND	1.79	--		1.667
2,2,4-Trimethylpentane	ND	0.333	--	ND	1.56	--		1.667
Heptane	ND	0.333	--	ND	1.36	--		1.667
cis-1,3-Dichloropropene	ND	0.333	--	ND	1.51	--		1.667
4-Methyl-2-pentanone	ND	0.834	--	ND	3.42	--		1.667
trans-1,3-Dichloropropene	ND	0.333	--	ND	1.51	--		1.667
1,1,2-Trichloroethane	ND	0.333	--	ND	1.82	--		1.667
Toluene	ND	0.333	--	ND	1.25	--		1.667
1,2-Dichloroethene (total)	100	0.333	--	396	1.32	--		1.667
2-Hexanone	ND	0.333	--	ND	1.36	--		1.667
1,3-Dichloropropene, Total	ND	0.333	--	ND	1.51	--		1.667
Dibromochloromethane	ND	0.333	--	ND	2.84	--		1.667
1,2-Dibromoethane	ND	0.333	--	ND	2.56	--		1.667

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-01 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:16
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	ND	0.333	--	ND	2.26	--		1.667
Chlorobenzene	ND	0.333	--	ND	1.53	--		1.667
Ethylbenzene	ND	0.333	--	ND	1.45	--		1.667
p/m-Xylene	ND	0.667	--	ND	2.90	--		1.667
Bromoform	ND	0.333	--	ND	3.44	--		1.667
Styrene	ND	0.333	--	ND	1.42	--		1.667
1,1,2,2-Tetrachloroethane	ND	0.333	--	ND	2.29	--		1.667
o-Xylene	ND	0.333	--	ND	1.45	--		1.667
4-Ethyltoluene	ND	0.333	--	ND	1.64	--		1.667
1,3,5-Trimethylbenzene	ND	0.333	--	ND	1.64	--		1.667
1,2,4-Trimethylbenzene	ND	0.333	--	ND	1.64	--		1.667
Benzyl chloride	ND	0.333	--	ND	1.72	--		1.667
1,3-Dichlorobenzene	ND	0.333	--	ND	2.00	--		1.667
1,4-Dichlorobenzene	ND	0.333	--	ND	2.00	--		1.667
1,2-Dichlorobenzene	ND	0.333	--	ND	2.00	--		1.667
1,2,4-Trichlorobenzene	ND	0.333	--	ND	2.47	--		1.667
Hexachlorobutadiene	ND	0.333	--	ND	3.55	--		1.667

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	93		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:22
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/08/19 04:42
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	25.5	--	ND	126	--		127.6
Chloromethane	ND	25.5	--	ND	52.7	--		127.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	25.5	--	ND	178	--		127.6
Vinyl chloride	ND	25.5	--	ND	65.2	--		127.6
1,3-Butadiene	ND	25.5	--	ND	56.4	--		127.6
Bromomethane	ND	25.5	--	ND	99.0	--		127.6
Chloroethane	ND	25.5	--	ND	67.3	--		127.6
Ethyl Alcohol	ND	638.	--	ND	1200	--		127.6
Vinyl bromide	ND	25.5	--	ND	111	--		127.6
Acetone	ND	128	--	ND	304	--		127.6
Trichlorofluoromethane	ND	25.5	--	ND	143	--		127.6
iso-Propyl Alcohol	ND	63.8	--	ND	157	--		127.6
1,1-Dichloroethene	ND	25.5	--	ND	101	--		127.6
tert-Butyl Alcohol	ND	63.8	--	ND	193	--		127.6
Methylene chloride	ND	63.8	--	ND	222	--		127.6
3-Chloropropene	ND	25.5	--	ND	79.8	--		127.6
Carbon disulfide	ND	25.5	--	ND	79.4	--		127.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	25.5	--	ND	195	--		127.6
trans-1,2-Dichloroethene	ND	25.5	--	ND	101	--		127.6
1,1-Dichloroethane	ND	25.5	--	ND	103	--		127.6
Methyl tert butyl ether	ND	25.5	--	ND	91.9	--		127.6
2-Butanone	ND	63.8	--	ND	188	--		127.6
cis-1,2-Dichloroethene	323	25.5	--	1280	101	--		127.6

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:22
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	63.8	--	ND	230	--		127.6
Chloroform	ND	25.5	--	ND	125	--		127.6
Tetrahydrofuran	ND	63.8	--	ND	188	--		127.6
1,2-Dichloroethane	ND	25.5	--	ND	103	--		127.6
n-Hexane	ND	25.5	--	ND	89.9	--		127.6
1,1,1-Trichloroethane	ND	25.5	--	ND	139	--		127.6
Benzene	ND	25.5	--	ND	81.5	--		127.6
Carbon tetrachloride	ND	25.5	--	ND	160	--		127.6
Cyclohexane	ND	25.5	--	ND	87.8	--		127.6
1,2-Dichloropropane	ND	25.5	--	ND	118	--		127.6
Bromodichloromethane	ND	25.5	--	ND	171	--		127.6
Xylene (Total)	ND	25.5	--	ND	111	--		127.6
1,4-Dioxane	ND	25.5	--	ND	91.9	--		127.6
Trichloroethene	180	25.5	--	967	137	--		127.6
2,2,4-Trimethylpentane	ND	25.5	--	ND	119	--		127.6
Heptane	ND	25.5	--	ND	105	--		127.6
cis-1,3-Dichloropropene	ND	25.5	--	ND	116	--		127.6
4-Methyl-2-pentanone	ND	63.8	--	ND	261	--		127.6
trans-1,3-Dichloropropene	ND	25.5	--	ND	116	--		127.6
1,1,2-Trichloroethane	ND	25.5	--	ND	139	--		127.6
Toluene	ND	25.5	--	ND	96.1	--		127.6
1,2-Dichloroethene (total)	323	25.5	--	1280	101	--		127.6
2-Hexanone	ND	25.5	--	ND	105	--		127.6
1,3-Dichloropropene, Total	ND	25.5	--	ND	116	--		127.6
Dibromochloromethane	ND	25.5	--	ND	217	--		127.6
1,2-Dibromoethane	ND	25.5	--	ND	196	--		127.6

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:22
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	9720	25.5	--	65900	173	--		127.6
Chlorobenzene	ND	25.5	--	ND	117	--		127.6
Ethylbenzene	ND	25.5	--	ND	111	--		127.6
p/m-Xylene	ND	51.0	--	ND	222	--		127.6
Bromoform	ND	25.5	--	ND	264	--		127.6
Styrene	ND	25.5	--	ND	109	--		127.6
1,1,2,2-Tetrachloroethane	ND	25.5	--	ND	175	--		127.6
o-Xylene	ND	25.5	--	ND	111	--		127.6
4-Ethyltoluene	ND	25.5	--	ND	125	--		127.6
1,3,5-Trimethylbenzene	ND	25.5	--	ND	125	--		127.6
1,2,4-Trimethylbenzene	ND	25.5	--	ND	125	--		127.6
Benzyl chloride	ND	25.5	--	ND	132	--		127.6
1,3-Dichlorobenzene	ND	25.5	--	ND	153	--		127.6
1,4-Dichlorobenzene	ND	25.5	--	ND	153	--		127.6
1,2-Dichlorobenzene	ND	25.5	--	ND	153	--		127.6
1,2,4-Trichlorobenzene	ND	25.5	--	ND	189	--		127.6
Hexachlorobutadiene	ND	25.5	--	ND	272	--		127.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:29
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/08/19 05:20
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	7.52	--	ND	37.2	--		37.59
Chloromethane	ND	7.52	--	ND	15.5	--		37.59
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	7.52	--	ND	52.6	--		37.59
Vinyl chloride	ND	7.52	--	ND	19.2	--		37.59
1,3-Butadiene	ND	7.52	--	ND	16.6	--		37.59
Bromomethane	ND	7.52	--	ND	29.2	--		37.59
Chloroethane	ND	7.52	--	ND	19.8	--		37.59
Ethyl Alcohol	ND	188.	--	ND	354	--		37.59
Vinyl bromide	ND	7.52	--	ND	32.9	--		37.59
Acetone	ND	37.6	--	ND	89.3	--		37.59
Trichlorofluoromethane	ND	7.52	--	ND	42.3	--		37.59
iso-Propyl Alcohol	ND	18.8	--	ND	46.2	--		37.59
1,1-Dichloroethene	ND	7.52	--	ND	29.8	--		37.59
tert-Butyl Alcohol	ND	18.8	--	ND	57.0	--		37.59
Methylene chloride	ND	18.8	--	ND	65.3	--		37.59
3-Chloropropene	ND	7.52	--	ND	23.5	--		37.59
Carbon disulfide	ND	7.52	--	ND	23.4	--		37.59
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.52	--	ND	57.6	--		37.59
trans-1,2-Dichloroethene	ND	7.52	--	ND	29.8	--		37.59
1,1-Dichloroethane	ND	7.52	--	ND	30.4	--		37.59
Methyl tert butyl ether	ND	7.52	--	ND	27.1	--		37.59
2-Butanone	ND	18.8	--	ND	55.4	--		37.59
cis-1,2-Dichloroethene	587	7.52	--	2330	29.8	--		37.59

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:29
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	18.8	--	ND	67.7	--		37.59
Chloroform	ND	7.52	--	ND	36.7	--		37.59
Tetrahydrofuran	ND	18.8	--	ND	55.4	--		37.59
1,2-Dichloroethane	ND	7.52	--	ND	30.4	--		37.59
n-Hexane	ND	7.52	--	ND	26.5	--		37.59
1,1,1-Trichloroethane	ND	7.52	--	ND	41.0	--		37.59
Benzene	ND	7.52	--	ND	24.0	--		37.59
Carbon tetrachloride	ND	7.52	--	ND	47.3	--		37.59
Cyclohexane	ND	7.52	--	ND	25.9	--		37.59
1,2-Dichloropropane	ND	7.52	--	ND	34.8	--		37.59
Bromodichloromethane	ND	7.52	--	ND	50.4	--		37.59
Xylene (Total)	ND	7.52	--	ND	32.7	--		37.59
1,4-Dioxane	ND	7.52	--	ND	27.1	--		37.59
Trichloroethene	162	7.52	--	871	40.4	--		37.59
2,2,4-Trimethylpentane	ND	7.52	--	ND	35.1	--		37.59
Heptane	ND	7.52	--	ND	30.8	--		37.59
cis-1,3-Dichloropropene	ND	7.52	--	ND	34.1	--		37.59
4-Methyl-2-pentanone	ND	18.8	--	ND	77.0	--		37.59
trans-1,3-Dichloropropene	ND	7.52	--	ND	34.1	--		37.59
1,1,2-Trichloroethane	ND	7.52	--	ND	41.0	--		37.59
Toluene	ND	7.52	--	ND	28.3	--		37.59
1,2-Dichloroethene (total)	587	7.52	--	2330	29.8	--		37.59
2-Hexanone	ND	7.52	--	ND	30.8	--		37.59
1,3-Dichloropropene, Total	ND	7.52	--	ND	34.1	--		37.59
Dibromochloromethane	ND	7.52	--	ND	64.1	--		37.59
1,2-Dibromoethane	ND	7.52	--	ND	57.8	--		37.59

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-03 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:29
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	2620	7.52	--	17800	51.0	--		37.59
Chlorobenzene	ND	7.52	--	ND	34.6	--		37.59
Ethylbenzene	ND	7.52	--	ND	32.7	--		37.59
p/m-Xylene	ND	15.0	--	ND	65.2	--		37.59
Bromoform	ND	7.52	--	ND	77.8	--		37.59
Styrene	ND	7.52	--	ND	32.0	--		37.59
1,1,2,2-Tetrachloroethane	ND	7.52	--	ND	51.6	--		37.59
o-Xylene	ND	7.52	--	ND	32.7	--		37.59
4-Ethyltoluene	ND	7.52	--	ND	37.0	--		37.59
1,3,5-Trimethylbenzene	ND	7.52	--	ND	37.0	--		37.59
1,2,4-Trimethylbenzene	ND	7.52	--	ND	37.0	--		37.59
Benzyl chloride	ND	7.52	--	ND	38.9	--		37.59
1,3-Dichlorobenzene	ND	7.52	--	ND	45.2	--		37.59
1,4-Dichlorobenzene	ND	7.52	--	ND	45.2	--		37.59
1,2-Dichlorobenzene	ND	7.52	--	ND	45.2	--		37.59
1,2,4-Trichlorobenzene	ND	7.52	--	ND	55.8	--		37.59
Hexachlorobutadiene	ND	7.52	--	ND	80.2	--		37.59

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:40
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/08/19 05:59
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.81	--	ND	33.7	--		34.06
Chloromethane	ND	6.81	--	ND	14.1	--		34.06
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	6.81	--	ND	47.6	--		34.06
Vinyl chloride	ND	6.81	--	ND	17.4	--		34.06
1,3-Butadiene	ND	6.81	--	ND	15.1	--		34.06
Bromomethane	ND	6.81	--	ND	26.4	--		34.06
Chloroethane	ND	6.81	--	ND	18.0	--		34.06
Ethyl Alcohol	ND	170.	--	ND	320	--		34.06
Vinyl bromide	ND	6.81	--	ND	29.8	--		34.06
Acetone	ND	34.1	--	ND	81.0	--		34.06
Trichlorofluoromethane	ND	6.81	--	ND	38.3	--		34.06
iso-Propyl Alcohol	ND	17.0	--	ND	41.8	--		34.06
1,1-Dichloroethene	ND	6.81	--	ND	27.0	--		34.06
tert-Butyl Alcohol	ND	17.0	--	ND	51.5	--		34.06
Methylene chloride	ND	17.0	--	ND	59.1	--		34.06
3-Chloropropene	ND	6.81	--	ND	21.3	--		34.06
Carbon disulfide	ND	6.81	--	ND	21.2	--		34.06
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.81	--	ND	52.2	--		34.06
trans-1,2-Dichloroethene	11.8	6.81	--	46.8	27.0	--		34.06
1,1-Dichloroethane	ND	6.81	--	ND	27.6	--		34.06
Methyl tert butyl ether	ND	6.81	--	ND	24.6	--		34.06
2-Butanone	ND	17.0	--	ND	50.1	--		34.06
cis-1,2-Dichloroethene	2420	6.81	--	9590	27.0	--		34.06

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:40
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	17.0	--	ND	61.3	--		34.06
Chloroform	ND	6.81	--	ND	33.3	--		34.06
Tetrahydrofuran	ND	17.0	--	ND	50.1	--		34.06
1,2-Dichloroethane	ND	6.81	--	ND	27.6	--		34.06
n-Hexane	ND	6.81	--	ND	24.0	--		34.06
1,1,1-Trichloroethane	ND	6.81	--	ND	37.2	--		34.06
Benzene	ND	6.81	--	ND	21.8	--		34.06
Carbon tetrachloride	ND	6.81	--	ND	42.8	--		34.06
Cyclohexane	ND	6.81	--	ND	23.4	--		34.06
1,2-Dichloropropane	ND	6.81	--	ND	31.5	--		34.06
Xylene (Total)	ND	6.81	--	ND	29.6	--		34.06
Bromodichloromethane	ND	6.81	--	ND	45.6	--		34.06
1,4-Dioxane	ND	6.81	--	ND	24.5	--		34.06
Trichloroethene	561	6.81	--	3010	36.6	--		34.06
2,2,4-Trimethylpentane	ND	6.81	--	ND	31.8	--		34.06
Heptane	ND	6.81	--	ND	27.9	--		34.06
cis-1,3-Dichloropropene	ND	6.81	--	ND	30.9	--		34.06
4-Methyl-2-pentanone	ND	17.0	--	ND	69.7	--		34.06
trans-1,3-Dichloropropene	ND	6.81	--	ND	30.9	--		34.06
1,1,2-Trichloroethane	ND	6.81	--	ND	37.2	--		34.06
Toluene	ND	6.81	--	ND	25.7	--		34.06
1,2-Dichloroethene (total)	2430	6.81	--	9630	27.0	--		34.06
2-Hexanone	ND	6.81	--	ND	27.9	--		34.06
Dibromochloromethane	ND	6.81	--	ND	58.0	--		34.06
1,3-Dichloropropene, Total	ND	6.81	--	ND	30.9	--		34.06
1,2-Dibromoethane	ND	6.81	--	ND	52.3	--		34.06

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

SAMPLE RESULTS

Lab ID: L1957596-04 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 11/29/19 11:40
Date Received: 12/03/19
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	2570	6.81	--	17400	46.2	--		34.06
Chlorobenzene	ND	6.81	--	ND	31.4	--		34.06
Ethylbenzene	ND	6.81	--	ND	29.6	--		34.06
p/m-Xylene	ND	13.6	--	ND	59.1	--		34.06
Bromoform	ND	6.81	--	ND	70.4	--		34.06
Styrene	ND	6.81	--	ND	29.0	--		34.06
1,1,2,2-Tetrachloroethane	ND	6.81	--	ND	46.8	--		34.06
o-Xylene	ND	6.81	--	ND	29.6	--		34.06
4-Ethyltoluene	ND	6.81	--	ND	33.5	--		34.06
1,3,5-Trimethylbenzene	ND	6.81	--	ND	33.5	--		34.06
1,2,4-Trimethylbenzene	ND	6.81	--	ND	33.5	--		34.06
Benzyl chloride	ND	6.81	--	ND	35.3	--		34.06
1,3-Dichlorobenzene	ND	6.81	--	ND	40.9	--		34.06
1,4-Dichlorobenzene	ND	6.81	--	ND	40.9	--		34.06
1,2-Dichlorobenzene	ND	6.81	--	ND	40.9	--		34.06
1,2,4-Trichlorobenzene	ND	6.81	--	ND	50.6	--		34.06
Hexachlorobutadiene	ND	6.81	--	ND	72.6	--		34.06

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	92		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1957596
Report Date: 12/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/07/19 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1318057-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1957596
Report Date: 12/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/07/19 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1318057-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1957596
Report Date: 12/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/07/19 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1318057-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1957596
Report Date: 12/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/07/19 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1318057-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1957596
Report Date: 12/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/07/19 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1318057-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1957596

Report Date: 12/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1318057-3								
Chlorodifluoromethane	85		-		70-130	-		
Propylene	100		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	86		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	96		-		70-130	-		
Methanol	89		-		70-130	-		
Vinyl chloride	102		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Butane	85		-		70-130	-		
Bromomethane	106		-		70-130	-		
Chloroethane	104		-		70-130	-		
Ethyl Alcohol	86		-		40-160	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	100		-		70-130	-		
Acrolein	85		-		70-130	-		
Acetone	85		-		40-160	-		
Acetonitrile	89		-		70-130	-		
Trichlorofluoromethane	126		-		70-130	-		
iso-Propyl Alcohol	86		-		40-160	-		
Acrylonitrile	86		-		70-130	-		
Pentane	87		-		70-130	-		
Ethyl ether	80		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1957596

Report Date: 12/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1318057-3								
1,1-Dichloroethene	109		-		70-130	-		
tert-Butyl Alcohol	93		-		70-130	-		
Methylene chloride	92		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	82		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	108		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	105		-		70-130	-		
Methyl tert butyl ether	105		-		70-130	-		
Vinyl acetate	98		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
Ethyl Acetate	116		-		70-130	-		
Chloroform	113		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
2,2-Dichloropropane	106		-		70-130	-		
1,2-Dichloroethane	120		-		70-130	-		
n-Hexane	100		-		70-130	-		
Isopropyl Ether	97		-		70-130	-		
Ethyl-Tert-Butyl-Ether	98		-		70-130	-		
1,2-Dichloroethene (total)	106		-			-		
1,2-Dichloroethene (total)	106		-			-		
1,1,1-Trichloroethane	116		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1957596

Report Date: 12/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1318057-3								
1,1-Dichloropropene	93		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	118		-		70-130	-		
Cyclohexane	98		-		70-130	-		
Tertiary-Amyl Methyl Ether	88		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	98		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	107		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Methyl Methacrylate	73		-		40-160	-		
Heptane	90		-		70-130	-		
cis-1,3-Dichloropropene	97		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Toluene	93		-		70-130	-		
1,3-Dichloropropane	83		-		70-130	-		
2-Hexanone	80		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	92		-		70-130	-		
Butyl Acetate	71		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1957596

Report Date: 12/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1318057-3								
Octane	88		-		70-130	-		
Tetrachloroethene	94		-		70-130	-		
1,1,1,2-Tetrachloroethane	97		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	100		-		70-130	-		
Bromoform	108		-		70-130	-		
Styrene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	107		-		70-130	-		
o-Xylene	102		-		70-130	-		
1,2,3-Trichloropropane	91		-		70-130	-		
Nonane (C9)	81		-		70-130	-		
Isopropylbenzene	95		-		70-130	-		
Bromobenzene	91		-		70-130	-		
o-Chlorotoluene	93		-		70-130	-		
n-Propylbenzene	98		-		70-130	-		
p-Chlorotoluene	98		-		70-130	-		
4-Ethyltoluene	101		-		70-130	-		
1,3,5-Trimethylbenzene	106		-		70-130	-		
tert-Butylbenzene	106		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Decane (C10)	108		-		70-130	-		
Benzyl chloride	**134**	Q	-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1318057-3								
1,3-Dichlorobenzene	107		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
sec-Butylbenzene	104		-		70-130	-		
p-Isopropyltoluene	103		-		70-130	-		
1,2-Dichlorobenzene	112		-		70-130	-		
n-Butylbenzene	120		-		70-130	-		
1,2-Dibromo-3-chloropropane	115		-		70-130	-		
Undecane	105		-		70-130	-		
Dodecane (C12)	82		-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Naphthalene	117		-		70-130	-		
1,2,3-Trichlorobenzene	101		-		70-130	-		
Hexachlorobutadiene	115		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1318057-5 QC Sample: L1957596-01 Client ID: STACK EFFLUENT						
Dichlorodifluoromethane	0.453	0.443	ppbV	2		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	2.43	2.40	ppbV	1		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	0.658	0.650	ppbV	1		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	0.688	0.658	ppbV	4		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1318057-5 QC Sample: L1957596-01 Client ID: STACK EFFLUENT						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	99.5	98.6	ppbV	1		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.383	0.402	ppbV	5		25
Carbon tetrachloride	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
Xylene (Total)	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1318057-5 QC Sample: L1957596-01 Client ID: STACK EFFLUENT						
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	ND	ND	ppbV	NC		25
1,2-Dichloroethene (total)	100	99.2	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
1,3-Dichloropropene, Total	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
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

Lab Duplicate Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1318057-5 QC Sample: L1957596-01 Client ID: STACK EFFLUENT						
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 350 NORTHERN BLVD

Lab Number: L1957596

Project Number:

Report Date: 12/10/19

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1957596-01	STACK EFFLUENT	405	2.7L Can	11/15/19	298298	L1953232-08	Pass	-29.6	-1.1	-	-	-	-
L1957596-02	SVE-1	2276	2.7L Can	11/15/19	298298	L1953232-08	Pass	-28.8	-2.7	-	-	-	-
L1957596-03	SVE-2	2186	2.7L Can	11/15/19	298298	L1953232-08	Pass	-29.3	-1.5	-	-	-	-
L1957596-04	SVE-3	2855	2.7L Can	11/15/19	298298	L1953232-08	Pass	-29.2	-2.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/08/19 23:11
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

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

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

Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	81		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/08/19 23:11
Analyst: TS

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1953232
Report Date: 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1953232

Project Number: CANISTER QC BAT **Report Date:** 12/10/19

Air Canister Certification Results

Lab ID: L1953232-08
Client ID: CAN 401 SHELF 1
Sample Location:

Date Collected: 11/08/19 09:00
Date Received: 11/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	76		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	81		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1957596
Report Date: 12/10/19

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(*)
L1957596-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1957596-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1957596-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1957596-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

GLOSSARY

Acronyms

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

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

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

Terms

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

Data Qualifiers

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1957596
Project Number:	Not Specified	**Report Date:**	12/10/19

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

CHAIN OF CUSTODY PAGE 1 OF 1

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/4/19

ALPHA Job #: L1957596

Client Information

Client: ALPINE ENVIRONMENTAL SERVICES
Address: 438 NEW KARNER RD
ALBANY NY 12205
Phone: 518-588-2164
Fax:
Email: KIMB@ALPINEENV.COM

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-Petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
57596-01	STACK Effluent	11/29/19	1115	1116	-29	-2	SOIL GAS	KB	2.7	405		X						
-02	SVE-1	11/29/19	1121	1122	-27	-2	SG	KB	2.7	2276		X						
-03	SVE-2	11/29/19	1128	1129	-27	-5	SG	KB	2.7	2186		X						
-04	SVE-3	11/29/19	1139	1140	-28	-2	SG	KB	2.7	2855		X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	12/3/19 1303	Jim Conley AAL	12/3/19 1303
T. Hamilton AAL	12/3/19 1310	T. Hamilton	12/4/19 0412
	12/4/19 0455		12/6/19 0455

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L1961339
Client:	Alpine Environmental Consultants, Inc. 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	01/02/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1961339-01	STACK EFFLUENT	SOIL_VAPOR	ALBANY. NY	12/21/19 10:20	12/21/19
L1961339-02	SVE-1	SOIL_VAPOR	ALBANY. NY	12/21/19 10:25	12/21/19
L1961339-03	SVE-2	SOIL_VAPOR	ALBANY. NY	12/21/19 10:40	12/21/19
L1961339-04	SVE-3	SOIL_VAPOR	ALBANY. NY	12/21/19 10:45	12/21/19

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1961339
Project Number:	Not Specified	**Report Date:**	01/02/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1961339
Project Number:	Not Specified	**Report Date:**	01/02/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 13, 2019. The canister certification results are provided as an addendum.

L1961339-02 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 01/02/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:20
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/31/19 02:35
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.383	0.200	--	1.89	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	1.39	0.200	--	3.55	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	13.0	5.00	--	24.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.258	0.200	--	1.45	1.12	--		1
Isopropanol	0.940	0.500	--	2.31	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	0.639	0.200	--	2.53	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	70.6	0.200	--	280	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:20
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.225	0.200	--	0.719	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	0.233	0.200	--	1.58	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:20
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.653	0.400	--	2.84	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	0.264	0.200	--	1.15	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	0.257	0.200	--	1.26	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	99		60-140
chlorobenzene-d5	99		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-02 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:25
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/31/19 03:12
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	20.1	--	ND	99.4	--		100.4
Chloromethane	ND	20.1	--	ND	41.5	--		100.4
Freon-114	ND	20.1	--	ND	140	--		100.4
Vinyl chloride	ND	20.1	--	ND	51.4	--		100.4
1,3-Butadiene	ND	20.1	--	ND	44.5	--		100.4
Bromomethane	ND	20.1	--	ND	78.0	--		100.4
Chloroethane	ND	20.1	--	ND	53.0	--		100.4
Ethanol	ND	502.	--	ND	946	--		100.4
Vinyl bromide	ND	20.1	--	ND	87.9	--		100.4
Acetone	ND	100.	--	ND	238	--		100.4
Trichlorofluoromethane	ND	20.1	--	ND	113	--		100.4
Isopropanol	ND	50.2	--	ND	123	--		100.4
1,1-Dichloroethene	ND	20.1	--	ND	79.7	--		100.4
Tertiary butyl Alcohol	ND	50.2	--	ND	152	--		100.4
Methylene chloride	ND	50.2	--	ND	174	--		100.4
3-Chloropropene	ND	20.1	--	ND	62.9	--		100.4
Carbon disulfide	ND	20.1	--	ND	62.6	--		100.4
Freon-113	ND	20.1	--	ND	154	--		100.4
trans-1,2-Dichloroethene	ND	20.1	--	ND	79.7	--		100.4
1,1-Dichloroethane	ND	20.1	--	ND	81.4	--		100.4
Methyl tert butyl ether	ND	20.1	--	ND	72.5	--		100.4
2-Butanone	ND	50.2	--	ND	148	--		100.4
cis-1,2-Dichloroethene	195	20.1	--	773	79.7	--		100.4

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-02 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:25
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	50.2	--	ND	181	--		100.4
Chloroform	ND	20.1	--	ND	98.2	--		100.4
Tetrahydrofuran	ND	50.2	--	ND	148	--		100.4
1,2-Dichloroethane	ND	20.1	--	ND	81.4	--		100.4
n-Hexane	ND	20.1	--	ND	70.8	--		100.4
1,1,1-Trichloroethane	ND	20.1	--	ND	110	--		100.4
Benzene	ND	20.1	--	ND	64.2	--		100.4
Carbon tetrachloride	ND	20.1	--	ND	126	--		100.4
Cyclohexane	ND	20.1	--	ND	69.2	--		100.4
1,2-Dichloropropane	ND	20.1	--	ND	92.9	--		100.4
Bromodichloromethane	ND	20.1	--	ND	135	--		100.4
1,4-Dioxane	ND	20.1	--	ND	72.4	--		100.4
Trichloroethene	128	20.1	--	688	108	--		100.4
2,2,4-Trimethylpentane	ND	20.1	--	ND	93.9	--		100.4
Heptane	ND	20.1	--	ND	82.4	--		100.4
cis-1,3-Dichloropropene	ND	20.1	--	ND	91.3	--		100.4
4-Methyl-2-pentanone	ND	50.2	--	ND	206	--		100.4
trans-1,3-Dichloropropene	ND	20.1	--	ND	91.3	--		100.4
1,1,2-Trichloroethane	ND	20.1	--	ND	110	--		100.4
Toluene	ND	20.1	--	ND	75.7	--		100.4
2-Hexanone	ND	20.1	--	ND	82.4	--		100.4
Dibromochloromethane	ND	20.1	--	ND	171	--		100.4
1,2-Dibromoethane	ND	20.1	--	ND	154	--		100.4
Tetrachloroethene	6230	20.1	--	42200	136	--		100.4
Chlorobenzene	ND	20.1	--	ND	92.6	--		100.4
Ethylbenzene	ND	20.1	--	ND	87.3	--		100.4

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-02 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:25
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	40.2	--	ND	175	--		100.4
Bromoform	ND	20.1	--	ND	208	--		100.4
Styrene	ND	20.1	--	ND	85.6	--		100.4
1,1,2,2-Tetrachloroethane	ND	20.1	--	ND	138	--		100.4
o-Xylene	ND	20.1	--	ND	87.3	--		100.4
4-Ethyltoluene	ND	20.1	--	ND	98.8	--		100.4
1,3,5-Trimethylbenzene	ND	20.1	--	ND	98.8	--		100.4
1,2,4-Trimethylbenzene	ND	20.1	--	ND	98.8	--		100.4
Benzyl chloride	ND	20.1	--	ND	104	--		100.4
1,3-Dichlorobenzene	ND	20.1	--	ND	121	--		100.4
1,4-Dichlorobenzene	ND	20.1	--	ND	121	--		100.4
1,2-Dichlorobenzene	ND	20.1	--	ND	121	--		100.4
1,2,4-Trichlorobenzene	ND	20.1	--	ND	149	--		100.4
Hexachlorobutadiene	ND	20.1	--	ND	214	--		100.4

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	99		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-03 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:40
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/31/19 03:52
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	5.94	--	ND	29.4	--		29.69
Chloromethane	ND	5.94	--	ND	12.3	--		29.69
Freon-114	ND	5.94	--	ND	41.5	--		29.69
Vinyl chloride	ND	5.94	--	ND	15.2	--		29.69
1,3-Butadiene	ND	5.94	--	ND	13.1	--		29.69
Bromomethane	ND	5.94	--	ND	23.1	--		29.69
Chloroethane	ND	5.94	--	ND	15.7	--		29.69
Ethanol	ND	148	--	ND	279	--		29.69
Vinyl bromide	ND	5.94	--	ND	26.0	--		29.69
Acetone	ND	29.7	--	ND	70.6	--		29.69
Trichlorofluoromethane	ND	5.94	--	ND	33.4	--		29.69
Isopropanol	ND	14.8	--	ND	36.4	--		29.69
1,1-Dichloroethene	ND	5.94	--	ND	23.6	--		29.69
Tertiary butyl Alcohol	ND	14.8	--	ND	44.9	--		29.69
Methylene chloride	ND	14.8	--	ND	51.4	--		29.69
3-Chloropropene	ND	5.94	--	ND	18.6	--		29.69
Carbon disulfide	ND	5.94	--	ND	18.5	--		29.69
Freon-113	ND	5.94	--	ND	45.5	--		29.69
trans-1,2-Dichloroethene	ND	5.94	--	ND	23.6	--		29.69
1,1-Dichloroethane	ND	5.94	--	ND	24.0	--		29.69
Methyl tert butyl ether	ND	5.94	--	ND	21.4	--		29.69
2-Butanone	ND	14.8	--	ND	43.6	--		29.69
cis-1,2-Dichloroethene	136	5.94	--	539	23.6	--		29.69

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-03 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:40
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	14.8	--	ND	53.3	--		29.69
Chloroform	ND	5.94	--	ND	29.0	--		29.69
Tetrahydrofuran	ND	14.8	--	ND	43.6	--		29.69
1,2-Dichloroethane	ND	5.94	--	ND	24.0	--		29.69
n-Hexane	ND	5.94	--	ND	20.9	--		29.69
1,1,1-Trichloroethane	ND	5.94	--	ND	32.4	--		29.69
Benzene	ND	5.94	--	ND	19.0	--		29.69
Carbon tetrachloride	ND	5.94	--	ND	37.4	--		29.69
Cyclohexane	ND	5.94	--	ND	20.4	--		29.69
1,2-Dichloropropane	ND	5.94	--	ND	27.5	--		29.69
Bromodichloromethane	ND	5.94	--	ND	39.8	--		29.69
1,4-Dioxane	ND	5.94	--	ND	21.4	--		29.69
Trichloroethene	48.2	5.94	--	259	31.9	--		29.69
2,2,4-Trimethylpentane	ND	5.94	--	ND	27.7	--		29.69
Heptane	ND	5.94	--	ND	24.3	--		29.69
cis-1,3-Dichloropropene	ND	5.94	--	ND	27.0	--		29.69
4-Methyl-2-pentanone	ND	14.8	--	ND	60.7	--		29.69
trans-1,3-Dichloropropene	ND	5.94	--	ND	27.0	--		29.69
1,1,2-Trichloroethane	ND	5.94	--	ND	32.4	--		29.69
Toluene	ND	5.94	--	ND	22.4	--		29.69
2-Hexanone	ND	5.94	--	ND	24.3	--		29.69
Dibromochloromethane	ND	5.94	--	ND	50.6	--		29.69
1,2-Dibromoethane	ND	5.94	--	ND	45.6	--		29.69
Tetrachloroethene	1500	5.94	--	10200	40.3	--		29.69
Chlorobenzene	ND	5.94	--	ND	27.4	--		29.69
Ethylbenzene	ND	5.94	--	ND	25.8	--		29.69

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-03 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:40
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	11.9	--	ND	51.7	--		29.69
Bromoform	ND	5.94	--	ND	61.4	--		29.69
Styrene	ND	5.94	--	ND	25.3	--		29.69
1,1,2,2-Tetrachloroethane	ND	5.94	--	ND	40.8	--		29.69
o-Xylene	ND	5.94	--	ND	25.8	--		29.69
4-Ethyltoluene	ND	5.94	--	ND	29.2	--		29.69
1,3,5-Trimethylbenzene	ND	5.94	--	ND	29.2	--		29.69
1,2,4-Trimethylbenzene	ND	5.94	--	ND	29.2	--		29.69
Benzyl chloride	ND	5.94	--	ND	30.8	--		29.69
1,3-Dichlorobenzene	ND	5.94	--	ND	35.7	--		29.69
1,4-Dichlorobenzene	ND	5.94	--	ND	35.7	--		29.69
1,2-Dichlorobenzene	ND	5.94	--	ND	35.7	--		29.69
1,2,4-Trichlorobenzene	ND	5.94	--	ND	44.1	--		29.69
Hexachlorobutadiene	ND	5.94	--	ND	63.4	--		29.69

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-04 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:45
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/31/19 04:29
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	8.06	--	ND	39.9	--		40.32
Chloromethane	ND	8.06	--	ND	16.6	--		40.32
Freon-114	ND	8.06	--	ND	56.3	--		40.32
Vinyl chloride	ND	8.06	--	ND	20.6	--		40.32
1,3-Butadiene	ND	8.06	--	ND	17.8	--		40.32
Bromomethane	ND	8.06	--	ND	31.3	--		40.32
Chloroethane	ND	8.06	--	ND	21.3	--		40.32
Ethanol	ND	202.	--	ND	381	--		40.32
Vinyl bromide	ND	8.06	--	ND	35.2	--		40.32
Acetone	ND	40.3	--	ND	95.7	--		40.32
Trichlorofluoromethane	ND	8.06	--	ND	45.3	--		40.32
Isopropanol	ND	20.2	--	ND	49.7	--		40.32
1,1-Dichloroethene	ND	8.06	--	ND	32.0	--		40.32
Tertiary butyl Alcohol	ND	20.2	--	ND	61.2	--		40.32
Methylene chloride	ND	20.2	--	ND	70.2	--		40.32
3-Chloropropene	ND	8.06	--	ND	25.2	--		40.32
Carbon disulfide	ND	8.06	--	ND	25.1	--		40.32
Freon-113	ND	8.06	--	ND	61.8	--		40.32
trans-1,2-Dichloroethene	11.0	8.06	--	43.6	32.0	--		40.32
1,1-Dichloroethane	ND	8.06	--	ND	32.6	--		40.32
Methyl tert butyl ether	ND	8.06	--	ND	29.1	--		40.32
2-Butanone	ND	20.2	--	ND	59.6	--		40.32
cis-1,2-Dichloroethene	2020	8.06	--	8010	32.0	--		40.32

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-04 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:45
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	20.2	--	ND	72.8	--		40.32
Chloroform	ND	8.06	--	ND	39.4	--		40.32
Tetrahydrofuran	ND	20.2	--	ND	59.6	--		40.32
1,2-Dichloroethane	ND	8.06	--	ND	32.6	--		40.32
n-Hexane	ND	8.06	--	ND	28.4	--		40.32
1,1,1-Trichloroethane	ND	8.06	--	ND	44.0	--		40.32
Benzene	ND	8.06	--	ND	25.7	--		40.32
Carbon tetrachloride	ND	8.06	--	ND	50.7	--		40.32
Cyclohexane	ND	8.06	--	ND	27.7	--		40.32
1,2-Dichloropropane	ND	8.06	--	ND	37.3	--		40.32
Bromodichloromethane	ND	8.06	--	ND	54.0	--		40.32
1,4-Dioxane	ND	8.06	--	ND	29.0	--		40.32
Trichloroethene	505	8.06	--	2710	43.3	--		40.32
2,2,4-Trimethylpentane	ND	8.06	--	ND	37.6	--		40.32
Heptane	ND	8.06	--	ND	33.0	--		40.32
cis-1,3-Dichloropropene	ND	8.06	--	ND	36.6	--		40.32
4-Methyl-2-pentanone	ND	20.2	--	ND	82.8	--		40.32
trans-1,3-Dichloropropene	ND	8.06	--	ND	36.6	--		40.32
1,1,2-Trichloroethane	ND	8.06	--	ND	44.0	--		40.32
Toluene	ND	8.06	--	ND	30.4	--		40.32
2-Hexanone	ND	8.06	--	ND	33.0	--		40.32
Dibromochloromethane	ND	8.06	--	ND	68.7	--		40.32
1,2-Dibromoethane	ND	8.06	--	ND	61.9	--		40.32
Tetrachloroethene	2060	8.06	--	14000	54.7	--		40.32
Chlorobenzene	ND	8.06	--	ND	37.1	--		40.32
Ethylbenzene	ND	8.06	--	ND	35.0	--		40.32

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

SAMPLE RESULTS

Lab ID: L1961339-04 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 12/21/19 10:45
Date Received: 12/21/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	16.1	--	ND	69.9	--		40.32
Bromoform	ND	8.06	--	ND	83.3	--		40.32
Styrene	ND	8.06	--	ND	34.3	--		40.32
1,1,2,2-Tetrachloroethane	ND	8.06	--	ND	55.3	--		40.32
o-Xylene	ND	8.06	--	ND	35.0	--		40.32
4-Ethyltoluene	ND	8.06	--	ND	39.6	--		40.32
1,3,5-Trimethylbenzene	ND	8.06	--	ND	39.6	--		40.32
1,2,4-Trimethylbenzene	ND	8.06	--	ND	39.6	--		40.32
Benzyl chloride	ND	8.06	--	ND	41.7	--		40.32
1,3-Dichlorobenzene	ND	8.06	--	ND	48.5	--		40.32
1,4-Dichlorobenzene	ND	8.06	--	ND	48.5	--		40.32
1,2-Dichlorobenzene	ND	8.06	--	ND	48.5	--		40.32
1,2,4-Trichlorobenzene	ND	8.06	--	ND	59.8	--		40.32
Hexachlorobutadiene	ND	8.06	--	ND	86.0	--		40.32

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1961339
Report Date: 01/02/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/30/19 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1325874-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1961339
Report Date: 01/02/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/30/19 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1325874-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1961339
Report Date: 01/02/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/30/19 15:03

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1325874-4								
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: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1961339

Report Date: 01/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1325874-3								
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	80		-		70-130	-		
Freon-114	90		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	91		-		70-130	-		
Bromomethane	83		-		70-130	-		
Chloroethane	83		-		70-130	-		
Ethanol	94		-		40-160	-		
Vinyl bromide	75		-		70-130	-		
Acetone	69		-		40-160	-		
Trichlorofluoromethane	87		-		70-130	-		
Isopropanol	71		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	85		-		70-130	-		
Methylene chloride	87		-		70-130	-		
3-Chloropropene	82		-		70-130	-		
Carbon disulfide	79		-		70-130	-		
Freon-113	84		-		70-130	-		
trans-1,2-Dichloroethene	93		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1325874-3								
Ethyl Acetate	93		-		70-130	-		
Chloroform	110		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
1,2-Dichloroethane	106		-		70-130	-		
n-Hexane	105		-		70-130	-		
1,1,1-Trichloroethane	113		-		70-130	-		
Benzene	108		-		70-130	-		
Carbon tetrachloride	120		-		70-130	-		
Cyclohexane	109		-		70-130	-		
1,2-Dichloropropane	99		-		70-130	-		
Bromodichloromethane	118		-		70-130	-		
1,4-Dioxane	108		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	110		-		70-130	-		
Heptane	99		-		70-130	-		
cis-1,3-Dichloropropene	116		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	100		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	89		-		70-130	-		
2-Hexanone	105		-		70-130	-		
Dibromochloromethane	102		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L1961339

Report Date: 01/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1325874-3								
Tetrachloroethene	89		-		70-130	-		
Chlorobenzene	98		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	104		-		70-130	-		
Styrene	100		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	99		-		70-130	-		
4-Ethyltoluene	102		-		70-130	-		
1,3,5-Trimethylbenzene	82		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Benzyl chloride	105		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	102		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	112		-		70-130	-		
Hexachlorobutadiene	100		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L1961339

Project Number:

Report Date: 01/02/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1961339-01	STACK EFFLUENT	2990	2.7L Can	12/13/19	298299	L1958897-06	Pass	-30.0	0.0	-	-	-	-
L1961339-02	SVE-1	1723	2.7L Can	12/13/19	298299	L1958897-06	Pass	-29.9	-2.2	-	-	-	-
L1961339-03	SVE-2	118	2.7L Can	12/13/19	298299	L1958897-06	Pass	-30.0	-1.9	-	-	-	-
L1961339-04	SVE-3	252	2.7L Can	12/13/19	298299	L1958897-06	Pass	-30.0	0.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1958897
Report Date: 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/10/19 20:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1958897
Report Date: 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1958897

Project Number: CANISTER QC BAT **Report Date:** 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1958897
Report Date: 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1958897

Project Number: CANISTER QC BAT **Report Date:** 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1958897
Report Date: 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/10/19 20:31
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1958897

Project Number: CANISTER QC BAT **Report Date:** 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1958897
Report Date: 01/02/20

Air Canister Certification Results

Lab ID: L1958897-06
Client ID: CAN 524 SHELF 2
Sample Location:

Date Collected: 12/10/19 09:00
Date Received: 12/10/19
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
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	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

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(*)
L1961339-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1961339-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1961339-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L1961339-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1961339
Project Number:	Not Specified	**Report Date:**	01/02/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L1961339
Project Number:	Not Specified	**Report Date:**	01/02/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L1961339
Report Date: 01/02/20

Data Qualifiers

RE - Analytical results are from sample re-extraction.
S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L1961339
Report Date: 01/02/20

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/21/19

ALPHA Job #: L1961339

Client Information

Client: ALPINE ENVIRONMENTAL SER
Address: 438 New Karner Rd
Albany NY 12205
Phone: 518-588-2104
Fax:
Email: KMB@ALPINEENV.COM

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs) ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
-01	Stack Effluent	12/21/19	1019	1020	-30	-1	SG	KB	2.7	2990		X					
-02	SVE-1	12/21/19	1024	1025	-30	-5	SG	KB	2.7	1723		X					
-03	SVE-2	12/21/19	1039	1040	-30	-4	SG	KB	2.7	118		X					
-04	SVE-3	12/21/19	1044	1045	-30	-2	SG	KB	27	252		X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
R. Willey	12/21/19 1043	R. Willey	12/21/19 1045
AAE	12/21/19 1255	AAE	12/21/19 1255
GMS	12/21/19 1430	GMS	12/21/19 1430

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2003501
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	01/30/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003501-01	SVE PRE TREAT	SOIL_VAPOR	ALBANY. NY	01/24/20 10:50	01/24/20
L2003501-02	STACK EFFLUENT	SOIL_VAPOR	ALBANY. NY	01/24/20 10:59	01/24/20
L2003501-03	UNUSED CAN # 152	AIR	ALBANY. NY	01/24/20 00:00	01/24/20
L2003501-04	UNUSED CAN # 200	AIR	ALBANY. NY	01/24/20 00:00	01/24/20

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2003501
Project Number:	Not Specified	**Report Date:**	01/30/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2003501
Project Number:	Not Specified	**Report Date:**	01/30/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 14, 2020. The canister certification results are provided as an addendum.

L2003501-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1335089-3 LCS recoveries for ethyl ether (132%), 1,2,4-trichlorobenzene (146%) and hexachlorobutadiene (142%) are above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 01/30/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-01 D
Client ID: SVE PRE TREAT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:50
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/30/20 03:16
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	11.9	11.9	--	58.8	58.8	--		59.67
Chloromethane	ND	11.9	--	ND	24.6	--		59.67
Freon-114	ND	11.9	--	ND	83.2	--		59.67
Vinyl chloride	ND	11.9	--	ND	30.4	--		59.67
1,3-Butadiene	ND	11.9	--	ND	26.3	--		59.67
Bromomethane	ND	11.9	--	ND	46.2	--		59.67
Chloroethane	ND	11.9	--	ND	31.4	--		59.67
Ethanol	ND	298	--	ND	562	--		59.67
Vinyl bromide	ND	11.9	--	ND	52.0	--		59.67
Acetone	ND	59.7	--	ND	142	--		59.67
Trichlorofluoromethane	ND	11.9	--	ND	66.9	--		59.67
Isopropanol	ND	29.8	--	ND	73.3	--		59.67
1,1-Dichloroethene	ND	11.9	--	ND	47.2	--		59.67
Tertiary butyl Alcohol	ND	29.8	--	ND	90.3	--		59.67
Methylene chloride	ND	29.8	--	ND	104	--		59.67
3-Chloropropene	ND	11.9	--	ND	37.2	--		59.67
Carbon disulfide	ND	11.9	--	ND	37.1	--		59.67
Freon-113	ND	11.9	--	ND	91.2	--		59.67
trans-1,2-Dichloroethene	ND	11.9	--	ND	47.2	--		59.67
1,1-Dichloroethane	ND	11.9	--	ND	48.2	--		59.67
Methyl tert butyl ether	ND	11.9	--	ND	42.9	--		59.67
2-Butanone	ND	29.8	--	ND	87.9	--		59.67
cis-1,2-Dichloroethene	246	11.9	--	975	47.2	--		59.67

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-01 D
Client ID: SVE PRE TREAT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:50
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	29.8	--	ND	107	--		59.67
Chloroform	ND	11.9	--	ND	58.1	--		59.67
Tetrahydrofuran	ND	29.8	--	ND	87.9	--		59.67
1,2-Dichloroethane	ND	11.9	--	ND	48.2	--		59.67
n-Hexane	ND	11.9	--	ND	41.9	--		59.67
1,1,1-Trichloroethane	ND	11.9	--	ND	64.9	--		59.67
Benzene	ND	11.9	--	ND	38.0	--		59.67
Carbon tetrachloride	ND	11.9	--	ND	74.9	--		59.67
Cyclohexane	ND	11.9	--	ND	41.0	--		59.67
1,2-Dichloropropane	ND	11.9	--	ND	55.0	--		59.67
Bromodichloromethane	ND	11.9	--	ND	79.7	--		59.67
1,4-Dioxane	ND	11.9	--	ND	42.9	--		59.67
Trichloroethene	105	11.9	--	564	64.0	--		59.67
2,2,4-Trimethylpentane	ND	11.9	--	ND	55.6	--		59.67
Heptane	ND	11.9	--	ND	48.8	--		59.67
cis-1,3-Dichloropropene	ND	11.9	--	ND	54.0	--		59.67
4-Methyl-2-pentanone	ND	29.8	--	ND	122	--		59.67
trans-1,3-Dichloropropene	ND	11.9	--	ND	54.0	--		59.67
1,1,2-Trichloroethane	ND	11.9	--	ND	64.9	--		59.67
Toluene	ND	11.9	--	ND	44.8	--		59.67
2-Hexanone	ND	11.9	--	ND	48.8	--		59.67
Dibromochloromethane	ND	11.9	--	ND	101	--		59.67
1,2-Dibromoethane	ND	11.9	--	ND	91.5	--		59.67
Tetrachloroethene	4800	11.9	--	32500	80.7	--		59.67
Chlorobenzene	ND	11.9	--	ND	54.8	--		59.67
Ethylbenzene	ND	11.9	--	ND	51.7	--		59.67

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-01 D
Client ID: SVE PRE TREAT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:50
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	23.9	--	ND	104	--		59.67
Bromoform	ND	11.9	--	ND	123	--		59.67
Styrene	ND	11.9	--	ND	50.7	--		59.67
1,1,2,2-Tetrachloroethane	ND	11.9	--	ND	81.7	--		59.67
o-Xylene	ND	11.9	--	ND	51.7	--		59.67
4-Ethyltoluene	ND	11.9	--	ND	58.5	--		59.67
1,3,5-Trimethylbenzene	ND	11.9	--	ND	58.5	--		59.67
1,2,4-Trimethylbenzene	ND	11.9	--	ND	58.5	--		59.67
Benzyl chloride	ND	11.9	--	ND	61.6	--		59.67
1,3-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.67
1,4-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.67
1,2-Dichlorobenzene	ND	11.9	--	ND	71.5	--		59.67
1,2,4-Trichlorobenzene	ND	11.9	--	ND	88.3	--		59.67
Hexachlorobutadiene	ND	11.9	--	ND	127	--		59.67

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	112		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	105		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-02
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:59
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/30/20 03:54
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.208	0.200	--	1.03	0.989	--		1
Chloromethane	4.31	0.200	--	8.90	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.578	0.200	--	1.48	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	0.212	0.200	--	0.858	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	1.12	0.200	--	4.44	0.793	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-02
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:59
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.370	0.200	--	1.18	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	2.31	0.200	--	15.7	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

SAMPLE RESULTS

Lab ID: L2003501-02
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 01/24/20 10:59
Date Received: 01/24/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	96		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2003501
Report Date: 01/30/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/29/20 14:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1335089-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2003501
Report Date: 01/30/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/29/20 14:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1335089-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2003501
Report Date: 01/30/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/29/20 14:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1335089-4								
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: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2003501

Report Date: 01/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1335089-3								
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	104		-		70-130	-		
Freon-114	107		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	106		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethanol	107		-		40-160	-		
Vinyl bromide	96		-		70-130	-		
Acetone	92		-		40-160	-		
Trichlorofluoromethane	102		-		70-130	-		
Isopropanol	96		-		40-160	-		
1,1-Dichloroethene	100		-		70-130	-		
Tertiary butyl Alcohol	100		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
Freon-113	102		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	95		-		70-130	-		
Methyl tert butyl ether	104		-		70-130	-		
2-Butanone	105		-		70-130	-		
cis-1,2-Dichloroethene	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1335089-3								
Ethyl Acetate	94		-		70-130	-		
Chloroform	98		-		70-130	-		
Tetrahydrofuran	100		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	97		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	93		-		70-130	-		
1,2-Dichloropropane	101		-		70-130	-		
Bromodichloromethane	100		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	112		-		70-130	-		
4-Methyl-2-pentanone	113		-		70-130	-		
trans-1,3-Dichloropropene	98		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	102		-		70-130	-		
2-Hexanone	119		-		70-130	-		
Dibromochloromethane	107		-		70-130	-		
1,2-Dibromoethane	109		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2003501

Report Date: 01/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1335089-3								
Tetrachloroethene	107		-		70-130	-		
Chlorobenzene	106		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	109		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	122		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,3-Dichlorobenzene	121		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
1,2,4-Trichlorobenzene	**146**	Q	-		70-130	-		
Hexachlorobutadiene	**142**	Q	-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L2003501

Project Number:

Report Date: 01/30/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2003501-01	SVE PRE TREAT	408	2.7L Can	01/14/20	310566	L2000888-05	Pass	-29.8	-4.4	-	-	-	-
L2003501-02	STACK EFFLUENT	465	2.7L Can	01/14/20	310566	L2000888-05	Pass	-2.96	0.0	-	-	-	-
L2003501-03	UNUSED CAN # 152	152	2.7L Can	01/14/20	310566	L2000888-05	Pass	-28.5	-28.0	-	-	-	-
L2003501-04	UNUSED CAN # 200	200	2.7L Can	01/14/20	310566	L2000888-05	Pass	-29.7	-29.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/09/20 19:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/09/20 19:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2000888
Report Date: 01/30/20

Air Canister Certification Results

Lab ID: L2000888-05
Client ID: CAN 393 SHELF 3
Sample Location:

Date Collected: 01/08/20 16:00
Date Received: 01/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2003501
Report Date: 01/30/20

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(*)
L2003501-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2003501-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2003501-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()
L2003501-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2003501
Project Number:	Not Specified	**Report Date:**	01/30/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2003501
Project Number:	Not Specified	**Report Date:**	01/30/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2003501
Report Date: 01/30/20

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 1/25/20

ALPHA Job #: L2003501

Client Information

Client: ALPINE ENV. SERVICES
Address: 438 NEW KARNER RD
ALBANY NY 12205
Phone: 518-588-2105
Fax:
Email: KIMB@ALPINEENV.COM
☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 NORTHERN BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:
ATTN MARK SCHNITZER

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
L2003501-01	SVE PRE TREAT	1-24-20	10:49	10:50	-26	-3	SOIL GAS	KB	2.7L	408		X					
-02	STACK EFFLUENT	1-24-20	10:58	10:59	-23	-2	SOIL GAS	KB	2.7L	465		X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	1/24/20 12:30		1-24-20 12:30

Form No: 101-02 Rev: (25-Sep-15)

MRL - AC 1/25/20 02:30

ANALYTICAL REPORT

Lab Number:	L2008897
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	03/06/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2008897-01	STACK EFFLUENT	SOIL_VAPOR	ALBANY. NY	02/28/20 09:45	02/28/20

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2008897
Project Number:	Not Specified	**Report Date:**	03/06/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2008897
Report Date: 03/06/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 10, 2020. The canister certification results are provided as an addendum.

The WG1347708-3 LCS recovery for 1,2,4-trichlorobenzene (132%) 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: 03/06/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

SAMPLE RESULTS

Lab ID: L2008897-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 02/28/20 09:45
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/06/20 05:26
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.448	0.200	--	2.22	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	1.16	0.200	--	2.97	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

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

SAMPLE RESULTS

Lab ID: L2008897-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 02/28/20 09:45
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

SAMPLE RESULTS

Lab ID: L2008897-01
Client ID: STACK EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 02/28/20 09:45
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2008897
Report Date: 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/05/20 15:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1347708-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2008897
Report Date: 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/05/20 15:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1347708-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2008897
Report Date: 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/05/20 15:20

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1347708-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1347708-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	98		-		70-130	-		
Freon-114	100		-		70-130	-		
Vinyl chloride	101		-		70-130	-		
1,3-Butadiene	100		-		70-130	-		
Bromomethane	101		-		70-130	-		
Chloroethane	96		-		70-130	-		
Ethanol	93		-		40-160	-		
Vinyl bromide	92		-		70-130	-		
Acetone	86		-		40-160	-		
Trichlorofluoromethane	111		-		70-130	-		
Isopropanol	98		-		40-160	-		
1,1-Dichloroethene	104		-		70-130	-		
Tertiary butyl Alcohol	96		-		70-130	-		
Methylene chloride	101		-		70-130	-		
3-Chloropropene	109		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
Freon-113	105		-		70-130	-		
trans-1,2-Dichloroethene	101		-		70-130	-		
1,1-Dichloroethane	104		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	105		-		70-130	-		
cis-1,2-Dichloroethene	107		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1347708-3								
Ethyl Acetate	112		-		70-130	-		
Chloroform	103		-		70-130	-		
Tetrahydrofuran	105		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	102		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	102		-		70-130	-		
1,2-Dichloropropane	105		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	101		-		70-130	-		
Trichloroethene	104		-		70-130	-		
2,2,4-Trimethylpentane	101		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	89		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	103		-		70-130	-		
2-Hexanone	113		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2008897

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1347708-3								
Tetrachloroethene	103		-		70-130	-		
Chlorobenzene	104		-		70-130	-		
Ethylbenzene	106		-		70-130	-		
p/m-Xylene	105		-		70-130	-		
Bromoform	109		-		70-130	-		
Styrene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	108		-		70-130	-		
4-Ethyltoluene	103		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Benzyl chloride	115		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	111		-		70-130	-		
1,2-Dichlorobenzene	112		-		70-130	-		
1,2,4-Trichlorobenzene	**132**	Q	-		70-130	-		
Hexachlorobutadiene	121		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L2008897

Project Number:

Report Date: 03/06/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2008897-01	STACK EFFLUENT	2236	2.7L Can	02/10/20	312504	L2004828-06	Pass	-28.9	1.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/04/20 20:03
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/04/20 20:03
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2004828
Report Date: 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2004828

Project Number: CANISTER QC BAT **Report Date:** 03/06/20

Air Canister Certification Results

Lab ID: L2004828-06
Client ID: CAN 245 SHELF 4
Sample Location:

Date Collected: 02/04/20 09:00
Date Received: 02/04/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	93		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2008897
Report Date: 03/06/20

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(*)
L2008897-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2008897
Project Number:	Not Specified	**Report Date:**	03/06/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2008897
Project Number:	Not Specified	**Report Date:**	03/06/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2008897
Project Number:	Not Specified	**Report Date:**	03/06/20

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/29/20

ALPHA Job #: L2008897

Client Information

Client: Alpine Environmental Services
Address: 438 New Karner Rd
Albany NY
Phone: 518-588-2104
Fax:
Email: KimB@Alpineenv.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
-01	Stack Effluent	2/28/20	944	945	-26	-1	SG	KB	2.7L	2236		X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Robert Haley AAL	2/28/20 1000	Robert Haley AAL	2-28-20 10:00
M. Clark AAL	2-28-20 10:00	M. Clark AAL	2/28/20 1000
	2/29/20 0753	DOCL - AAL	2/29/20 0753

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:	L2026217
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	06/29/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2026217-01	SVE-1	SOIL_VAPOR	ALBANY. NY	06/22/20 15:45	06/22/20
L2026217-02	SVE-2	SOIL_VAPOR	ALBANY. NY	06/22/20 16:20	06/22/20
L2026217-03	SVE-3	SOIL_VAPOR	ALBANY. NY	06/22/20 16:30	06/22/20
L2026217-04	STACK-EFFLUENT	SOIL_VAPOR	ALBANY. NY	06/22/20 16:35	06/22/20

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2026217
Project Number:	Not Specified	**Report Date:**	06/29/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2026217
Project Number:	Not Specified	**Report Date:**	06/29/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 8, 2020. The canister certification results are provided as an addendum.

L2026217-01 through -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

WG1385988-3: The LCS recovery for 3-chloropropene (144%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of these analytes.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 06/29/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-01 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 06/22/20 15:45
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/25/20 17:30
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	75.8	--	ND	375	--		378.8
Chloromethane	ND	75.8	--	ND	157	--		378.8
Freon-114	ND	75.8	--	ND	530	--		378.8
Vinyl chloride	ND	75.8	--	ND	194	--		378.8
1,3-Butadiene	ND	75.8	--	ND	168	--		378.8
Bromomethane	ND	75.8	--	ND	294	--		378.8
Chloroethane	ND	75.8	--	ND	200	--		378.8
Ethanol	ND	1890	--	ND	3560	--		378.8
Vinyl bromide	ND	75.8	--	ND	331	--		378.8
Acetone	ND	379	--	ND	900	--		378.8
Trichlorofluoromethane	ND	75.8	--	ND	426	--		378.8
Isopropanol	ND	189	--	ND	465	--		378.8
1,1-Dichloroethene	ND	75.8	--	ND	301	--		378.8
Tertiary butyl Alcohol	ND	189.	--	ND	573	--		378.8
Methylene chloride	ND	189	--	ND	657	--		378.8
3-Chloropropene	ND	75.8	--	ND	237	--		378.8
Carbon disulfide	ND	75.8	--	ND	236	--		378.8
Freon-113	ND	75.8	--	ND	581	--		378.8
trans-1,2-Dichloroethene	ND	75.8	--	ND	301	--		378.8
1,1-Dichloroethane	ND	75.8	--	ND	307	--		378.8
Methyl tert butyl ether	ND	75.8	--	ND	273	--		378.8
2-Butanone	ND	189.	--	ND	557	--		378.8
cis-1,2-Dichloroethene	495	75.8	--	1960	301	--		378.8

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-01 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 06/22/20 15:45
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	189.	--	ND	681	--		378.8
Chloroform	ND	75.8	--	ND	370	--		378.8
Tetrahydrofuran	ND	189.	--	ND	557	--		378.8
1,2-Dichloroethane	ND	75.8	--	ND	307	--		378.8
n-Hexane	ND	75.8	--	ND	267	--		378.8
1,1,1-Trichloroethane	ND	75.8	--	ND	414	--		378.8
Benzene	ND	75.8	--	ND	242	--		378.8
Carbon tetrachloride	ND	75.8	--	ND	477	--		378.8
Cyclohexane	ND	75.8	--	ND	261	--		378.8
1,2-Dichloropropane	ND	75.8	--	ND	350	--		378.8
Bromodichloromethane	ND	75.8	--	ND	508	--		378.8
1,4-Dioxane	ND	75.8	--	ND	273	--		378.8
Trichloroethene	463	75.8	--	2490	407	--		378.8
2,2,4-Trimethylpentane	ND	75.8	--	ND	354	--		378.8
Heptane	ND	75.8	--	ND	311	--		378.8
cis-1,3-Dichloropropene	ND	75.8	--	ND	344	--		378.8
4-Methyl-2-pentanone	ND	189.	--	ND	775	--		378.8
trans-1,3-Dichloropropene	ND	75.8	--	ND	344	--		378.8
1,1,2-Trichloroethane	ND	75.8	--	ND	414	--		378.8
Toluene	ND	75.8	--	ND	286	--		378.8
2-Hexanone	ND	75.8	--	ND	311	--		378.8
Dibromochloromethane	ND	75.8	--	ND	646	--		378.8
1,2-Dibromoethane	ND	75.8	--	ND	583	--		378.8
Tetrachloroethene	20400	75.8	--	138000	514	--		378.8
Chlorobenzene	ND	75.8	--	ND	349	--		378.8
Ethylbenzene	ND	75.8	--	ND	329	--		378.8

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-01 D
Client ID: SVE-1
Sample Location: ALBANY. NY

Date Collected: 06/22/20 15:45
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	152.	--	ND	660	--		378.8
Bromoform	ND	75.8	--	ND	784	--		378.8
Styrene	ND	75.8	--	ND	323	--		378.8
1,1,2,2-Tetrachloroethane	ND	75.8	--	ND	521	--		378.8
o-Xylene	ND	75.8	--	ND	329	--		378.8
4-Ethyltoluene	ND	75.8	--	ND	373	--		378.8
1,3,5-Trimethylbenzene	ND	75.8	--	ND	373	--		378.8
1,2,4-Trimethylbenzene	ND	75.8	--	ND	373	--		378.8
Benzyl chloride	ND	75.8	--	ND	392	--		378.8
1,3-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,4-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,2-Dichlorobenzene	ND	75.8	--	ND	456	--		378.8
1,2,4-Trichlorobenzene	ND	75.8	--	ND	563	--		378.8
Hexachlorobutadiene	ND	75.8	--	ND	809	--		378.8

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	99		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-02 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:20
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/25/20 18:09
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.94	--	ND	34.3	--		34.72
Chloromethane	ND	6.94	--	ND	14.3	--		34.72
Freon-114	ND	6.94	--	ND	48.5	--		34.72
Vinyl chloride	ND	6.94	--	ND	17.7	--		34.72
1,3-Butadiene	ND	6.94	--	ND	15.4	--		34.72
Bromomethane	ND	6.94	--	ND	26.9	--		34.72
Chloroethane	ND	6.94	--	ND	18.3	--		34.72
Ethanol	ND	174	--	ND	328	--		34.72
Vinyl bromide	ND	6.94	--	ND	30.3	--		34.72
Acetone	ND	34.7	--	ND	82.4	--		34.72
Trichlorofluoromethane	ND	6.94	--	ND	39.0	--		34.72
Isopropanol	ND	17.4	--	ND	42.8	--		34.72
1,1-Dichloroethene	ND	6.94	--	ND	27.5	--		34.72
Tertiary butyl Alcohol	ND	17.4	--	ND	52.7	--		34.72
Methylene chloride	ND	17.4	--	ND	60.4	--		34.72
3-Chloropropene	ND	6.94	--	ND	21.7	--		34.72
Carbon disulfide	ND	6.94	--	ND	21.6	--		34.72
Freon-113	ND	6.94	--	ND	53.2	--		34.72
trans-1,2-Dichloroethene	ND	6.94	--	ND	27.5	--		34.72
1,1-Dichloroethane	ND	6.94	--	ND	28.1	--		34.72
Methyl tert butyl ether	ND	6.94	--	ND	25.0	--		34.72
2-Butanone	ND	17.4	--	ND	51.3	--		34.72
cis-1,2-Dichloroethene	512	6.94	--	2030	27.5	--		34.72

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-02 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:20
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	17.4	--	ND	62.7	--		34.72
Chloroform	8.71	6.94	--	42.5	33.9	--		34.72
Tetrahydrofuran	ND	17.4	--	ND	51.3	--		34.72
1,2-Dichloroethane	ND	6.94	--	ND	28.1	--		34.72
n-Hexane	ND	6.94	--	ND	24.5	--		34.72
1,1,1-Trichloroethane	ND	6.94	--	ND	37.9	--		34.72
Benzene	ND	6.94	--	ND	22.2	--		34.72
Carbon tetrachloride	ND	6.94	--	ND	43.7	--		34.72
Cyclohexane	ND	6.94	--	ND	23.9	--		34.72
1,2-Dichloropropane	ND	6.94	--	ND	32.1	--		34.72
Bromodichloromethane	ND	6.94	--	ND	46.5	--		34.72
1,4-Dioxane	ND	6.94	--	ND	25.0	--		34.72
Trichloroethene	61.2	6.94	--	329	37.3	--		34.72
2,2,4-Trimethylpentane	ND	6.94	--	ND	32.4	--		34.72
Heptane	ND	6.94	--	ND	28.4	--		34.72
cis-1,3-Dichloropropene	ND	6.94	--	ND	31.5	--		34.72
4-Methyl-2-pentanone	ND	17.4	--	ND	71.3	--		34.72
trans-1,3-Dichloropropene	ND	6.94	--	ND	31.5	--		34.72
1,1,2-Trichloroethane	ND	6.94	--	ND	37.9	--		34.72
Toluene	ND	6.94	--	ND	26.2	--		34.72
2-Hexanone	ND	6.94	--	ND	28.4	--		34.72
Dibromochloromethane	ND	6.94	--	ND	59.1	--		34.72
1,2-Dibromoethane	ND	6.94	--	ND	53.3	--		34.72
Tetrachloroethene	2080	6.94	--	14100	47.1	--		34.72
Chlorobenzene	ND	6.94	--	ND	32.0	--		34.72
Ethylbenzene	ND	6.94	--	ND	30.1	--		34.72

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-02 D
Client ID: SVE-2
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:20
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	13.9	--	ND	60.4	--		34.72
Bromoform	ND	6.94	--	ND	71.8	--		34.72
Styrene	ND	6.94	--	ND	29.5	--		34.72
1,1,2,2-Tetrachloroethane	ND	6.94	--	ND	47.7	--		34.72
o-Xylene	ND	6.94	--	ND	30.1	--		34.72
4-Ethyltoluene	ND	6.94	--	ND	34.1	--		34.72
1,3,5-Trimethylbenzene	ND	6.94	--	ND	34.1	--		34.72
1,2,4-Trimethylbenzene	ND	6.94	--	ND	34.1	--		34.72
Benzyl chloride	ND	6.94	--	ND	35.9	--		34.72
1,3-Dichlorobenzene	ND	6.94	--	ND	41.7	--		34.72
1,4-Dichlorobenzene	ND	6.94	--	ND	41.7	--		34.72
1,2-Dichlorobenzene	ND	6.94	--	ND	41.7	--		34.72
1,2,4-Trichlorobenzene	ND	6.94	--	ND	51.5	--		34.72
Hexachlorobutadiene	ND	6.94	--	ND	74.0	--		34.72

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	97		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-03 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:30
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/25/20 18:47
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	10.8	--	ND	53.4	--		54.11
Chloromethane	ND	10.8	--	ND	22.3	--		54.11
Freon-114	ND	10.8	--	ND	75.5	--		54.11
Vinyl chloride	47.6	10.8	--	122	27.6	--		54.11
1,3-Butadiene	ND	10.8	--	ND	23.9	--		54.11
Bromomethane	ND	10.8	--	ND	41.9	--		54.11
Chloroethane	ND	10.8	--	ND	28.5	--		54.11
Ethanol	ND	270	--	ND	509	--		54.11
Vinyl bromide	ND	10.8	--	ND	47.2	--		54.11
Acetone	ND	54.1	--	ND	129	--		54.11
Trichlorofluoromethane	ND	10.8	--	ND	60.7	--		54.11
Isopropanol	ND	27.0	--	ND	66.4	--		54.11
1,1-Dichloroethene	ND	10.8	--	ND	42.8	--		54.11
Tertiary butyl Alcohol	ND	27.0	--	ND	81.9	--		54.11
Methylene chloride	ND	27.0	--	ND	93.8	--		54.11
3-Chloropropene	ND	10.8	--	ND	33.8	--		54.11
Carbon disulfide	ND	10.8	--	ND	33.6	--		54.11
Freon-113	ND	10.8	--	ND	82.8	--		54.11
trans-1,2-Dichloroethene	23.5	10.8	--	93.2	42.8	--		54.11
1,1-Dichloroethane	ND	10.8	--	ND	43.7	--		54.11
Methyl tert butyl ether	ND	10.8	--	ND	38.9	--		54.11
2-Butanone	ND	27.0	--	ND	79.6	--		54.11
cis-1,2-Dichloroethene	3290	10.8	--	13000	42.8	--		54.11

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-03 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:30
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	27.0	--	ND	97.3	--		54.11
Chloroform	ND	10.8	--	ND	52.7	--		54.11
Tetrahydrofuran	ND	27.0	--	ND	79.6	--		54.11
1,2-Dichloroethane	ND	10.8	--	ND	43.7	--		54.11
n-Hexane	ND	10.8	--	ND	38.1	--		54.11
1,1,1-Trichloroethane	ND	10.8	--	ND	58.9	--		54.11
Benzene	ND	10.8	--	ND	34.5	--		54.11
Carbon tetrachloride	ND	10.8	--	ND	67.9	--		54.11
Cyclohexane	ND	10.8	--	ND	37.2	--		54.11
1,2-Dichloropropane	ND	10.8	--	ND	49.9	--		54.11
Bromodichloromethane	ND	10.8	--	ND	72.4	--		54.11
1,4-Dioxane	ND	10.8	--	ND	38.9	--		54.11
Trichloroethene	692	10.8	--	3720	58.0	--		54.11
2,2,4-Trimethylpentane	ND	10.8	--	ND	50.4	--		54.11
Heptane	ND	10.8	--	ND	44.3	--		54.11
cis-1,3-Dichloropropene	ND	10.8	--	ND	49.0	--		54.11
4-Methyl-2-pentanone	ND	27.0	--	ND	111	--		54.11
trans-1,3-Dichloropropene	ND	10.8	--	ND	49.0	--		54.11
1,1,2-Trichloroethane	ND	10.8	--	ND	58.9	--		54.11
Toluene	ND	10.8	--	ND	40.7	--		54.11
2-Hexanone	ND	10.8	--	ND	44.3	--		54.11
Dibromochloromethane	ND	10.8	--	ND	92.0	--		54.11
1,2-Dibromoethane	ND	10.8	--	ND	83.0	--		54.11
Tetrachloroethene	3950	10.8	--	26800	73.2	--		54.11
Chlorobenzene	ND	10.8	--	ND	49.7	--		54.11
Ethylbenzene	ND	10.8	--	ND	46.9	--		54.11

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-03 D
Client ID: SVE-3
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:30
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	21.6	--	ND	93.8	--		54.11
Bromoform	ND	10.8	--	ND	112	--		54.11
Styrene	ND	10.8	--	ND	46.0	--		54.11
1,1,2,2-Tetrachloroethane	ND	10.8	--	ND	74.2	--		54.11
o-Xylene	ND	10.8	--	ND	46.9	--		54.11
4-Ethyltoluene	ND	10.8	--	ND	53.1	--		54.11
1,3,5-Trimethylbenzene	ND	10.8	--	ND	53.1	--		54.11
1,2,4-Trimethylbenzene	ND	10.8	--	ND	53.1	--		54.11
Benzyl chloride	ND	10.8	--	ND	55.9	--		54.11
1,3-Dichlorobenzene	ND	10.8	--	ND	64.9	--		54.11
1,4-Dichlorobenzene	ND	10.8	--	ND	64.9	--		54.11
1,2-Dichlorobenzene	ND	10.8	--	ND	64.9	--		54.11
1,2,4-Trichlorobenzene	ND	10.8	--	ND	80.2	--		54.11
Hexachlorobutadiene	ND	10.8	--	ND	115	--		54.11

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-04 D
Client ID: STACK-EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:35
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/25/20 19:24
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	29.4	--	ND	145	--		147.1
Chloromethane	ND	29.4	--	ND	60.7	--		147.1
Freon-114	ND	29.4	--	ND	205	--		147.1
Vinyl chloride	ND	29.4	--	ND	75.2	--		147.1
1,3-Butadiene	ND	29.4	--	ND	65.0	--		147.1
Bromomethane	ND	29.4	--	ND	114	--		147.1
Chloroethane	ND	29.4	--	ND	77.6	--		147.1
Ethanol	ND	735	--	ND	1380	--		147.1
Vinyl bromide	ND	29.4	--	ND	129	--		147.1
Acetone	ND	147	--	ND	349	--		147.1
Trichlorofluoromethane	ND	29.4	--	ND	165	--		147.1
Isopropanol	ND	73.5	--	ND	181	--		147.1
1,1-Dichloroethene	ND	29.4	--	ND	117	--		147.1
Tertiary butyl Alcohol	ND	73.5	--	ND	223	--		147.1
Methylene chloride	ND	73.5	--	ND	255	--		147.1
3-Chloropropene	ND	29.4	--	ND	92.0	--		147.1
Carbon disulfide	ND	29.4	--	ND	91.6	--		147.1
Freon-113	ND	29.4	--	ND	225	--		147.1
trans-1,2-Dichloroethene	ND	29.4	--	ND	117	--		147.1
1,1-Dichloroethane	ND	29.4	--	ND	119	--		147.1
Methyl tert butyl ether	ND	29.4	--	ND	106	--		147.1
2-Butanone	ND	73.5	--	ND	217	--		147.1
cis-1,2-Dichloroethene	1150	29.4	--	4560	117	--		147.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-04 D
Client ID: STACK-EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:35
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	73.5	--	ND	265	--		147.1
Chloroform	ND	29.4	--	ND	144	--		147.1
Tetrahydrofuran	ND	73.5	--	ND	217	--		147.1
1,2-Dichloroethane	ND	29.4	--	ND	119	--		147.1
n-Hexane	ND	29.4	--	ND	104	--		147.1
1,1,1-Trichloroethane	ND	29.4	--	ND	160	--		147.1
Benzene	ND	29.4	--	ND	93.9	--		147.1
Carbon tetrachloride	ND	29.4	--	ND	185	--		147.1
Cyclohexane	ND	29.4	--	ND	101	--		147.1
1,2-Dichloropropane	ND	29.4	--	ND	136	--		147.1
Bromodichloromethane	ND	29.4	--	ND	197	--		147.1
1,4-Dioxane	ND	29.4	--	ND	106	--		147.1
Trichloroethene	361	29.4	--	1940	158	--		147.1
2,2,4-Trimethylpentane	ND	29.4	--	ND	137	--		147.1
Heptane	ND	29.4	--	ND	120	--		147.1
cis-1,3-Dichloropropene	ND	29.4	--	ND	133	--		147.1
4-Methyl-2-pentanone	ND	73.5	--	ND	301	--		147.1
trans-1,3-Dichloropropene	ND	29.4	--	ND	133	--		147.1
1,1,2-Trichloroethane	ND	29.4	--	ND	160	--		147.1
Toluene	ND	29.4	--	ND	111	--		147.1
2-Hexanone	ND	29.4	--	ND	120	--		147.1
Dibromochloromethane	ND	29.4	--	ND	250	--		147.1
1,2-Dibromoethane	ND	29.4	--	ND	226	--		147.1
Tetrachloroethene	10200	29.4	--	69200	199	--		147.1
Chlorobenzene	ND	29.4	--	ND	135	--		147.1
Ethylbenzene	ND	29.4	--	ND	128	--		147.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

SAMPLE RESULTS

Lab ID: L2026217-04 D
Client ID: STACK-EFFLUENT
Sample Location: ALBANY. NY

Date Collected: 06/22/20 16:35
Date Received: 06/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	58.8	--	ND	255	--		147.1
Bromoform	ND	29.4	--	ND	304	--		147.1
Styrene	ND	29.4	--	ND	125	--		147.1
1,1,2,2-Tetrachloroethane	ND	29.4	--	ND	202	--		147.1
o-Xylene	ND	29.4	--	ND	128	--		147.1
4-Ethyltoluene	ND	29.4	--	ND	145	--		147.1
1,3,5-Trimethylbenzene	ND	29.4	--	ND	145	--		147.1
1,2,4-Trimethylbenzene	ND	29.4	--	ND	145	--		147.1
Benzyl chloride	ND	29.4	--	ND	152	--		147.1
1,3-Dichlorobenzene	ND	29.4	--	ND	177	--		147.1
1,4-Dichlorobenzene	ND	29.4	--	ND	177	--		147.1
1,2-Dichlorobenzene	ND	29.4	--	ND	177	--		147.1
1,2,4-Trichlorobenzene	ND	29.4	--	ND	218	--		147.1
Hexachlorobutadiene	ND	29.4	--	ND	314	--		147.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	97		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2026217
Report Date: 06/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/25/20 14:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1385988-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2026217
Report Date: 06/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/25/20 14:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1385988-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2026217
Report Date: 06/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/25/20 14:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1385988-4								
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: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2026217

Report Date: 06/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1385988-3								
Dichlorodifluoromethane	111		-		70-130	-		
Chloromethane	114		-		70-130	-		
Freon-114	113		-		70-130	-		
Vinyl chloride	121		-		70-130	-		
1,3-Butadiene	113		-		70-130	-		
Bromomethane	116		-		70-130	-		
Chloroethane	120		-		70-130	-		
Ethanol	92		-		40-160	-		
Vinyl bromide	109		-		70-130	-		
Acetone	105		-		40-160	-		
Trichlorofluoromethane	112		-		70-130	-		
Isopropanol	103		-		40-160	-		
1,1-Dichloroethene	119		-		70-130	-		
Tertiary butyl Alcohol	102		-		70-130	-		
Methylene chloride	112		-		70-130	-		
3-Chloropropene	**144**	Q	-		70-130	-		
Carbon disulfide	109		-		70-130	-		
Freon-113	117		-		70-130	-		
trans-1,2-Dichloroethene	118		-		70-130	-		
1,1-Dichloroethane	121		-		70-130	-		
Methyl tert butyl ether	108		-		70-130	-		
2-Butanone	127		-		70-130	-		
cis-1,2-Dichloroethene	116		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1385988-3								
Ethyl Acetate	112		-		70-130	-		
Chloroform	111		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
1,2-Dichloroethane	118		-		70-130	-		
n-Hexane	106		-		70-130	-		
1,1,1-Trichloroethane	104		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	104		-		70-130	-		
Cyclohexane	108		-		70-130	-		
1,2-Dichloropropane	109		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	99		-		70-130	-		
2,2,4-Trimethylpentane	111		-		70-130	-		
Heptane	113		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	114		-		70-130	-		
trans-1,3-Dichloropropene	89		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	94		-		70-130	-		
2-Hexanone	103		-		70-130	-		
Dibromochloromethane	99		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1385988-3								
Tetrachloroethene	91		-		70-130	-		
Chlorobenzene	93		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	95		-		70-130	-		
Styrene	92		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	99		-		70-130	-		
4-Ethyltoluene	95		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	99		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	94		-		70-130	-		
1,4-Dichlorobenzene	94		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
1,2,4-Trichlorobenzene	100		-		70-130	-		
Hexachlorobutadiene	100		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L2026217

Project Number:

Report Date: 06/29/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2026217-01	SVE-1	2735	2.7L Can	06/08/20	313758	L2022758-07	Pass	-29.2	-5.3	-	-	-	-
L2026217-02	SVE-2	2794	2.7L Can	06/08/20	313758	L2022758-07	Pass	-29.2	-5.3	-	-	-	-
L2026217-03	SVE-3	2609	2.7L Can	06/08/20	313758	L2022758-07	Pass	-29.2	-3.8	-	-	-	-
L2026217-04	STACK-EFFLUENT	2791	2.7L Can	06/08/20	313758	L2022758-07	Pass	-29.2	-3.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/03/20 21:40
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/03/20 21:40
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.041	0.020	--	0.200	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: L2022758
Report Date: 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2022758

Project Number: CANISTER QC BAT **Report Date:** 06/29/20

Air Canister Certification Results

Lab ID: L2022758-07
Client ID: CAN 2385 SHELF 10
Sample Location:

Date Collected: 06/03/20 09:00
Date Received: 06/03/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	87		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2026217
Report Date: 06/29/20

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(*)
L2026217-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2026217-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2026217-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2026217-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2026217
Project Number:	Not Specified	**Report Date:**	06/29/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2026217
Project Number:	Not Specified	**Report Date:**	06/29/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

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Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2026217
Report Date: 06/29/20

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 of 1

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/23/20

ALPHA Job #: L2026217

Client Information

Client: Alpine Env Services
Address: 438 New Karner Rd
Albany NY
Phone: 518-588-2404
Fax:
Email: kimb@alpineenv.com

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: Baines
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
26217-01	SVE-1	6/22/20	1545	1545	-28	-3	SG	KB	2.7L	2735		X					
02	SVE-2	6/22/20	1619	1620	-29	-4	SG	KB	2.7L	2794		X					
03	SVE-3	6/22/20	1629	1630	-28	-2	SG	KB	2.7L	2609		X					
04	STACK Effluent	6/22/20	1634	1635	-29	-3	SG	KB	2.7L	2791		X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Robert Obrien	6/22/20 1745	Robert Obrien AAL	6-22-20 17:45
	6-22-20 1745		6/23/20 0030
T. Hamilton	6/25/20 0410	T. Hamilton	6/25/20 0410
	6/28/20 0800		6/23/20 0800

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2038288
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	09/22/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2038288-01	SVE-2	SOIL_VAPOR	ALBANY, NY	09/15/20 10:31	09/15/20
L2038288-02	SVE-1	SOIL_VAPOR	ALBANY, NY	09/15/20 10:41	09/15/20
L2038288-03	SVE-3	SOIL_VAPOR	ALBANY, NY	09/15/20 10:51	09/15/20
L2038288-04	SVE STACK	SOIL_VAPOR	ALBANY, NY	09/15/20 11:01	09/15/20

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2038288
Project Number:	Not Specified	**Report Date:**	09/22/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 2, 2020. The canister certification results are provided as an addendum.

L2038288-01-04: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: 09/22/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-01 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:31
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/22/20 00:19
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	4.02	--	ND	19.9	--		20.08
Freon-114	ND	4.02	--	ND	28.1	--		20.08
Vinyl chloride	ND	4.02	--	ND	10.3	--		20.08
1,3-Butadiene	ND	4.02	--	ND	8.89	--		20.08
Bromomethane	ND	4.02	--	ND	15.6	--		20.08
Chloroethane	ND	4.02	--	ND	10.6	--		20.08
Ethanol	ND	100	--	ND	188	--		20.08
Vinyl bromide	ND	4.02	--	ND	17.6	--		20.08
Acetone	ND	20.1	--	ND	47.7	--		20.08
Trichlorofluoromethane	ND	4.02	--	ND	22.6	--		20.08
Isopropanol	ND	10.0	--	ND	24.6	--		20.08
1,1-Dichloroethene	ND	4.02	--	ND	15.9	--		20.08
Tertiary butyl Alcohol	ND	10.0	--	ND	30.3	--		20.08
Methylene chloride	ND	10.0	--	ND	34.7	--		20.08
3-Chloropropene	ND	4.02	--	ND	12.6	--		20.08
Carbon disulfide	ND	4.02	--	ND	12.5	--		20.08
Freon-113	ND	4.02	--	ND	30.8	--		20.08
trans-1,2-Dichloroethene	ND	4.02	--	ND	15.9	--		20.08
1,1-Dichloroethane	ND	4.02	--	ND	16.3	--		20.08
Methyl tert butyl ether	ND	4.02	--	ND	14.5	--		20.08
2-Butanone	ND	10.0	--	ND	29.5	--		20.08
cis-1,2-Dichloroethene	349	4.02	--	1380	15.9	--		20.08
Ethyl Acetate	ND	10.0	--	ND	36.0	--		20.08

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-01 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:31
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	10.1	4.02	--	49.3	19.6	--		20.08
Tetrahydrofuran	ND	10.0	--	ND	29.5	--		20.08
1,2-Dichloroethane	ND	4.02	--	ND	16.3	--		20.08
n-Hexane	ND	4.02	--	ND	14.2	--		20.08
1,1,1-Trichloroethane	ND	4.02	--	ND	21.9	--		20.08
Benzene	ND	4.02	--	ND	12.8	--		20.08
Carbon tetrachloride	ND	4.02	--	ND	25.3	--		20.08
Cyclohexane	ND	4.02	--	ND	13.8	--		20.08
1,2-Dichloropropane	ND	4.02	--	ND	18.6	--		20.08
Bromodichloromethane	ND	4.02	--	ND	26.9	--		20.08
1,4-Dioxane	ND	4.02	--	ND	14.5	--		20.08
Trichloroethene	56.2	4.02	--	302	21.6	--		20.08
2,2,4-Trimethylpentane	ND	4.02	--	ND	18.8	--		20.08
Heptane	ND	4.02	--	ND	16.5	--		20.08
cis-1,3-Dichloropropene	ND	4.02	--	ND	18.3	--		20.08
4-Methyl-2-pentanone	ND	10.0	--	ND	41.0	--		20.08
trans-1,3-Dichloropropene	ND	4.02	--	ND	18.3	--		20.08
1,1,2-Trichloroethane	ND	4.02	--	ND	21.9	--		20.08
Toluene	ND	4.02	--	ND	15.1	--		20.08
2-Hexanone	ND	4.02	--	ND	16.5	--		20.08
Dibromochloromethane	ND	4.02	--	ND	34.2	--		20.08
1,2-Dibromoethane	ND	4.02	--	ND	30.9	--		20.08
Tetrachloroethene	1550	4.02	--	10500	27.3	--		20.08
Chlorobenzene	ND	4.02	--	ND	18.5	--		20.08
Ethylbenzene	ND	4.02	--	ND	17.5	--		20.08
p/m-Xylene	ND	8.03	--	ND	34.9	--		20.08

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-01 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:31
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	4.02	--	ND	41.6	--		20.08
Styrene	ND	4.02	--	ND	17.1	--		20.08
1,1,2,2-Tetrachloroethane	ND	4.02	--	ND	27.6	--		20.08
o-Xylene	ND	4.02	--	ND	17.5	--		20.08
4-Ethyltoluene	ND	4.02	--	ND	19.8	--		20.08
1,3,5-Trimethylbenzene	ND	4.02	--	ND	19.8	--		20.08
1,2,4-Trimethylbenzene	ND	4.02	--	ND	19.8	--		20.08
Benzyl chloride	ND	4.02	--	ND	20.8	--		20.08
1,3-Dichlorobenzene	ND	4.02	--	ND	24.2	--		20.08
1,4-Dichlorobenzene	ND	4.02	--	ND	24.2	--		20.08
1,2-Dichlorobenzene	ND	4.02	--	ND	24.2	--		20.08
1,2,4-Trichlorobenzene	ND	4.02	--	ND	29.8	--		20.08
Hexachlorobutadiene	ND	4.02	--	ND	42.9	--		20.08

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-01 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:31
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/22/20 00:19
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	4.02	--	ND	8.30	--		20.08

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:41
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/22/20 00:57
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	51.0	--	ND	252	--		255.1
Freon-114	ND	51.0	--	ND	356	--		255.1
Vinyl chloride	ND	51.0	--	ND	130	--		255.1
1,3-Butadiene	ND	51.0	--	ND	113	--		255.1
Bromomethane	ND	51.0	--	ND	198	--		255.1
Chloroethane	ND	51.0	--	ND	135	--		255.1
Ethanol	ND	1280	--	ND	2410	--		255.1
Vinyl bromide	ND	51.0	--	ND	223	--		255.1
Acetone	ND	255.	--	ND	606	--		255.1
Trichlorofluoromethane	ND	51.0	--	ND	287	--		255.1
Isopropanol	ND	128.	--	ND	315	--		255.1
1,1-Dichloroethene	ND	51.0	--	ND	202	--		255.1
Tertiary butyl Alcohol	ND	128.	--	ND	388	--		255.1
Methylene chloride	ND	128.	--	ND	445	--		255.1
3-Chloropropene	ND	51.0	--	ND	160	--		255.1
Carbon disulfide	ND	51.0	--	ND	159	--		255.1
Freon-113	ND	51.0	--	ND	391	--		255.1
trans-1,2-Dichloroethene	ND	51.0	--	ND	202	--		255.1
1,1-Dichloroethane	ND	51.0	--	ND	206	--		255.1
Methyl tert butyl ether	ND	51.0	--	ND	184	--		255.1
2-Butanone	ND	128.	--	ND	378	--		255.1
cis-1,2-Dichloroethene	393	51.0	--	1560	202	--		255.1
Ethyl Acetate	ND	128.	--	ND	461	--		255.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:41
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	51.0	--	ND	249	--		255.1
Tetrahydrofuran	ND	128.	--	ND	378	--		255.1
1,2-Dichloroethane	ND	51.0	--	ND	206	--		255.1
n-Hexane	ND	51.0	--	ND	180	--		255.1
1,1,1-Trichloroethane	ND	51.0	--	ND	278	--		255.1
Benzene	ND	51.0	--	ND	163	--		255.1
Carbon tetrachloride	ND	51.0	--	ND	321	--		255.1
Cyclohexane	ND	51.0	--	ND	176	--		255.1
1,2-Dichloropropane	ND	51.0	--	ND	236	--		255.1
Bromodichloromethane	ND	51.0	--	ND	342	--		255.1
1,4-Dioxane	ND	51.0	--	ND	184	--		255.1
Trichloroethene	316	51.0	--	1700	274	--		255.1
2,2,4-Trimethylpentane	ND	51.0	--	ND	238	--		255.1
Heptane	ND	51.0	--	ND	209	--		255.1
cis-1,3-Dichloropropene	ND	51.0	--	ND	232	--		255.1
4-Methyl-2-pentanone	ND	128.	--	ND	525	--		255.1
trans-1,3-Dichloropropene	ND	51.0	--	ND	232	--		255.1
1,1,2-Trichloroethane	ND	51.0	--	ND	278	--		255.1
Toluene	ND	51.0	--	ND	192	--		255.1
2-Hexanone	ND	51.0	--	ND	209	--		255.1
Dibromochloromethane	ND	51.0	--	ND	434	--		255.1
1,2-Dibromoethane	ND	51.0	--	ND	392	--		255.1
Tetrachloroethene	16500	51.0	--	112000	346	--		255.1
Chlorobenzene	ND	51.0	--	ND	235	--		255.1
Ethylbenzene	ND	51.0	--	ND	222	--		255.1
p/m-Xylene	ND	102.	--	ND	443	--		255.1

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:41
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	51.0	--	ND	527	--		255.1
Styrene	ND	51.0	--	ND	217	--		255.1
1,1,2,2-Tetrachloroethane	ND	51.0	--	ND	350	--		255.1
o-Xylene	ND	51.0	--	ND	222	--		255.1
4-Ethyltoluene	ND	51.0	--	ND	251	--		255.1
1,3,5-Trimethylbenzene	ND	51.0	--	ND	251	--		255.1
1,2,4-Trimethylbenzene	ND	51.0	--	ND	251	--		255.1
Benzyl chloride	ND	51.0	--	ND	264	--		255.1
1,3-Dichlorobenzene	ND	51.0	--	ND	307	--		255.1
1,4-Dichlorobenzene	ND	51.0	--	ND	307	--		255.1
1,2-Dichlorobenzene	ND	51.0	--	ND	307	--		255.1
1,2,4-Trichlorobenzene	ND	51.0	--	ND	379	--		255.1
Hexachlorobutadiene	ND	51.0	--	ND	544	--		255.1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-02 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:41
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/22/20 00:57
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	51.0	--	ND	105	--		255.1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:51
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/22/20 01:37
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	6.60	--	ND	32.6	--		32.98
Freon-114	ND	6.60	--	ND	46.1	--		32.98
Vinyl chloride	ND	6.60	--	ND	16.9	--		32.98
1,3-Butadiene	ND	6.60	--	ND	14.6	--		32.98
Bromomethane	ND	6.60	--	ND	25.6	--		32.98
Chloroethane	ND	6.60	--	ND	17.4	--		32.98
Ethanol	ND	165	--	ND	311	--		32.98
Vinyl bromide	ND	6.60	--	ND	28.9	--		32.98
Acetone	ND	33.0	--	ND	78.4	--		32.98
Trichlorofluoromethane	ND	6.60	--	ND	37.1	--		32.98
Isopropanol	ND	16.5	--	ND	40.6	--		32.98
1,1-Dichloroethene	ND	6.60	--	ND	26.2	--		32.98
Tertiary butyl Alcohol	ND	16.5	--	ND	50.0	--		32.98
Methylene chloride	ND	16.5	--	ND	57.3	--		32.98
3-Chloropropene	ND	6.60	--	ND	20.7	--		32.98
Carbon disulfide	10.5	6.60	--	32.7	20.6	--		32.98
Freon-113	ND	6.60	--	ND	50.6	--		32.98
trans-1,2-Dichloroethene	8.77	6.60	--	34.8	26.2	--		32.98
1,1-Dichloroethane	ND	6.60	--	ND	26.7	--		32.98
Methyl tert butyl ether	ND	6.60	--	ND	23.8	--		32.98
2-Butanone	ND	16.5	--	ND	48.7	--		32.98
cis-1,2-Dichloroethene	1300	6.60	--	5150	26.2	--		32.98
Ethyl Acetate	ND	16.5	--	ND	59.5	--		32.98

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:51
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	11.2	6.60	--	54.7	32.2	--		32.98
Tetrahydrofuran	ND	16.5	--	ND	48.7	--		32.98
1,2-Dichloroethane	ND	6.60	--	ND	26.7	--		32.98
n-Hexane	ND	6.60	--	ND	23.3	--		32.98
1,1,1-Trichloroethane	ND	6.60	--	ND	36.0	--		32.98
Benzene	ND	6.60	--	ND	21.1	--		32.98
Carbon tetrachloride	ND	6.60	--	ND	41.5	--		32.98
Cyclohexane	ND	6.60	--	ND	22.7	--		32.98
1,2-Dichloropropane	ND	6.60	--	ND	30.5	--		32.98
Bromodichloromethane	ND	6.60	--	ND	44.2	--		32.98
1,4-Dioxane	ND	6.60	--	ND	23.8	--		32.98
Trichloroethene	342	6.60	--	1840	35.5	--		32.98
2,2,4-Trimethylpentane	ND	6.60	--	ND	30.8	--		32.98
Heptane	ND	6.60	--	ND	27.0	--		32.98
cis-1,3-Dichloropropene	ND	6.60	--	ND	30.0	--		32.98
4-Methyl-2-pentanone	ND	16.5	--	ND	67.6	--		32.98
trans-1,3-Dichloropropene	ND	6.60	--	ND	30.0	--		32.98
1,1,2-Trichloroethane	ND	6.60	--	ND	36.0	--		32.98
Toluene	ND	6.60	--	ND	24.9	--		32.98
2-Hexanone	ND	6.60	--	ND	27.0	--		32.98
Dibromochloromethane	ND	6.60	--	ND	56.2	--		32.98
1,2-Dibromoethane	ND	6.60	--	ND	50.7	--		32.98
Tetrachloroethene	1900	6.60	--	12900	44.8	--		32.98
Chlorobenzene	ND	6.60	--	ND	30.4	--		32.98
Ethylbenzene	ND	6.60	--	ND	28.7	--		32.98
p/m-Xylene	ND	13.2	--	ND	57.3	--		32.98

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:51
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	6.60	--	ND	68.2	--		32.98
Styrene	ND	6.60	--	ND	28.1	--		32.98
1,1,2,2-Tetrachloroethane	ND	6.60	--	ND	45.3	--		32.98
o-Xylene	ND	6.60	--	ND	28.7	--		32.98
4-Ethyltoluene	ND	6.60	--	ND	32.4	--		32.98
1,3,5-Trimethylbenzene	ND	6.60	--	ND	32.4	--		32.98
1,2,4-Trimethylbenzene	ND	6.60	--	ND	32.4	--		32.98
Benzyl chloride	ND	6.60	--	ND	34.2	--		32.98
1,3-Dichlorobenzene	ND	6.60	--	ND	39.7	--		32.98
1,4-Dichlorobenzene	ND	6.60	--	ND	39.7	--		32.98
1,2-Dichlorobenzene	ND	6.60	--	ND	39.7	--		32.98
1,2,4-Trichlorobenzene	ND	6.60	--	ND	49.0	--		32.98
Hexachlorobutadiene	ND	6.60	--	ND	70.4	--		32.98

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	100		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 09/15/20 10:51
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/22/20 01:37
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	6.60	--	ND	13.6	--		32.98

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-04 D
Client ID: SVE STACK
Sample Location: ALBANY, NY

Date Collected: 09/15/20 11:01
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/22/20 02:15
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	18.4	--	ND	91.0	--		92.25
Freon-114	ND	18.4	--	ND	129	--		92.25
Vinyl chloride	ND	18.4	--	ND	47.0	--		92.25
1,3-Butadiene	ND	18.4	--	ND	40.7	--		92.25
Bromomethane	ND	18.4	--	ND	71.4	--		92.25
Chloroethane	ND	18.4	--	ND	48.6	--		92.25
Ethanol	ND	461	--	ND	869	--		92.25
Vinyl bromide	ND	18.4	--	ND	80.4	--		92.25
Acetone	ND	92.2	--	ND	219	--		92.25
Trichlorofluoromethane	ND	18.4	--	ND	103	--		92.25
Isopropanol	ND	46.1	--	ND	113	--		92.25
1,1-Dichloroethene	ND	18.4	--	ND	73.0	--		92.25
Tertiary butyl Alcohol	ND	46.1	--	ND	140	--		92.25
Methylene chloride	ND	46.1	--	ND	160	--		92.25
3-Chloropropene	ND	18.4	--	ND	57.6	--		92.25
Carbon disulfide	ND	18.4	--	ND	57.3	--		92.25
Freon-113	ND	18.4	--	ND	141	--		92.25
trans-1,2-Dichloroethene	ND	18.4	--	ND	73.0	--		92.25
1,1-Dichloroethane	ND	18.4	--	ND	74.5	--		92.25
Methyl tert butyl ether	ND	18.4	--	ND	66.3	--		92.25
2-Butanone	ND	46.1	--	ND	136	--		92.25
cis-1,2-Dichloroethene	584	18.4	--	2320	73.0	--		92.25
Ethyl Acetate	ND	46.1	--	ND	166	--		92.25

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-04 D
Client ID: SVE STACK
Sample Location: ALBANY, NY

Date Collected: 09/15/20 11:01
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	18.4	--	ND	89.9	--		92.25
Tetrahydrofuran	ND	46.1	--	ND	136	--		92.25
1,2-Dichloroethane	ND	18.4	--	ND	74.5	--		92.25
n-Hexane	ND	18.4	--	ND	64.8	--		92.25
1,1,1-Trichloroethane	ND	18.4	--	ND	100	--		92.25
Benzene	ND	18.4	--	ND	58.8	--		92.25
Carbon tetrachloride	ND	18.4	--	ND	116	--		92.25
Cyclohexane	ND	18.4	--	ND	63.3	--		92.25
1,2-Dichloropropane	ND	18.4	--	ND	85.0	--		92.25
Bromodichloromethane	ND	18.4	--	ND	123	--		92.25
1,4-Dioxane	ND	18.4	--	ND	66.3	--		92.25
Trichloroethene	210	18.4	--	1130	98.9	--		92.25
2,2,4-Trimethylpentane	ND	18.4	--	ND	85.9	--		92.25
Heptane	ND	18.4	--	ND	75.4	--		92.25
cis-1,3-Dichloropropene	ND	18.4	--	ND	83.5	--		92.25
4-Methyl-2-pentanone	ND	46.1	--	ND	189	--		92.25
trans-1,3-Dichloropropene	ND	18.4	--	ND	83.5	--		92.25
1,1,2-Trichloroethane	ND	18.4	--	ND	100	--		92.25
Toluene	ND	18.4	--	ND	69.3	--		92.25
2-Hexanone	ND	18.4	--	ND	75.4	--		92.25
Dibromochloromethane	ND	18.4	--	ND	157	--		92.25
1,2-Dibromoethane	ND	18.4	--	ND	141	--		92.25
Tetrachloroethene	5970	18.4	--	40500	125	--		92.25
Chlorobenzene	ND	18.4	--	ND	84.7	--		92.25
Ethylbenzene	ND	18.4	--	ND	79.9	--		92.25
p/m-Xylene	ND	36.9	--	ND	160	--		92.25

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-04 D
Client ID: SVE STACK
Sample Location: ALBANY, NY

Date Collected: 09/15/20 11:01
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromoform	ND	18.4	--	ND	190	--		92.25
Styrene	ND	18.4	--	ND	78.3	--		92.25
1,1,2,2-Tetrachloroethane	ND	18.4	--	ND	126	--		92.25
o-Xylene	ND	18.4	--	ND	79.9	--		92.25
4-Ethyltoluene	ND	18.4	--	ND	90.5	--		92.25
1,3,5-Trimethylbenzene	ND	18.4	--	ND	90.5	--		92.25
1,2,4-Trimethylbenzene	ND	18.4	--	ND	90.5	--		92.25
Benzyl chloride	ND	18.4	--	ND	95.3	--		92.25
1,3-Dichlorobenzene	ND	18.4	--	ND	111	--		92.25
1,4-Dichlorobenzene	ND	18.4	--	ND	111	--		92.25
1,2-Dichlorobenzene	ND	18.4	--	ND	111	--		92.25
1,2,4-Trichlorobenzene	ND	18.4	--	ND	137	--		92.25
Hexachlorobutadiene	ND	18.4	--	ND	196	--		92.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

SAMPLE RESULTS

Lab ID: L2038288-04 D
Client ID: SVE STACK
Sample Location: ALBANY, NY

Date Collected: 09/15/20 11:01
Date Received: 09/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/22/20 02:15
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	18.4	--	ND	38.0	--		92.25

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	98		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2038288
Report Date: 09/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/21/20 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1412637-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2038288
Report Date: 09/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/21/20 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1412637-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2038288
Report Date: 09/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/21/20 14:33

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1412637-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2038288
Report Date: 09/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 09/21/20 15:12

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG1412638-4								
Chloromethane	ND	0.200	--	ND	0.413	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2038288

Report Date: 09/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412637-3								
Dichlorodifluoromethane	84		-		70-130	-		
Chloromethane	**68**	Q	-		70-130	-		
Freon-114	77		-		70-130	-		
Vinyl chloride	74		-		70-130	-		
1,3-Butadiene	78		-		70-130	-		
Bromomethane	80		-		70-130	-		
Chloroethane	74		-		70-130	-		
Ethanol	77		-		40-160	-		
Vinyl bromide	73		-		70-130	-		
Acetone	60		-		40-160	-		
Trichlorofluoromethane	78		-		70-130	-		
Isopropanol	58		-		40-160	-		
1,1-Dichloroethene	79		-		70-130	-		
Tertiary butyl Alcohol	72		-		70-130	-		
Methylene chloride	81		-		70-130	-		
3-Chloropropene	79		-		70-130	-		
Carbon disulfide	73		-		70-130	-		
Freon-113	85		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	101		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	106		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412637-3								
Ethyl Acetate	85		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	82		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	90		-		70-130	-		
1,1,1-Trichloroethane	96		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	102		-		70-130	-		
Cyclohexane	90		-		70-130	-		
1,2-Dichloropropane	89		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	92		-		70-130	-		
Heptane	90		-		70-130	-		
cis-1,3-Dichloropropene	96		-		70-130	-		
4-Methyl-2-pentanone	94		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	89		-		70-130	-		
Dibromochloromethane	100		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2038288

Report Date: 09/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412637-3								
Tetrachloroethene	96		-		70-130	-		
Chlorobenzene	96		-		70-130	-		
Ethylbenzene	93		-		70-130	-		
p/m-Xylene	95		-		70-130	-		
Bromoform	100		-		70-130	-		
Styrene	95		-		70-130	-		
1,1,2,2-Tetrachloroethane	99		-		70-130	-		
o-Xylene	96		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	101		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	101		-		70-130	-		
1,2-Dichlorobenzene	100		-		70-130	-		
1,2,4-Trichlorobenzene	94		-		70-130	-		
Hexachlorobutadiene	104		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2038288

Report Date: 09/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG1412638-3								
Chloromethane	70		-		70-130	-		25

Project Name: 350 NORTHERN BLVD

Lab Number: L2038288

Project Number:

Report Date: 09/22/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2038288-01	SVE-2	2296	2.7L Can	09/02/20	313764	L2033983-01	Pass	-29.5	-3.5	-	-	-	-
L2038288-02	SVE-1	3184	2.7L Can	09/02/20	313764	L2033983-01	Pass	-29.5	-3.8	-	-	-	-
L2038288-03	SVE-3	2022	2.7L Can	09/02/20	313764	L2033983-01	Pass	-29.5	-1.0	-	-	-	-
L2038288-04	SVE STACK	197	2.7L Can	09/02/20	313764	L2033983-01	Pass	-29.3	0.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/20/20 21:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/20/20 21:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2033983
Report Date: 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2033983

Project Number: CANISTER QC BAT **Report Date:** 09/22/20

Air Canister Certification Results

Lab ID: L2033983-01
Client ID: CAN 2788 SHELF 7
Sample Location:

Date Collected: 08/19/20 16:00
Date Received: 08/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2038288
Report Date: 09/22/20

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(*)
L2038288-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2038288-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2038288-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2038288-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2038288
Project Number:	Not Specified	**Report Date:**	09/22/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2038288
Project Number:	Not Specified	**Report Date:**	09/22/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2038288
Project Number:	Not Specified	**Report Date:**	09/22/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/15/20

ALPHA Job #: L2038288

Client Information

Client: ALPINE Environmental Ser.
Address: 438 New Karner Rd
ALBANY NY
Phone: 518-588-2104
Fax:
Email: KIMB@ALPINEENV.COM

☒ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern BLVD
Project Location: ALBANY NY
Project #:
Project Manager: BAINES
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subject Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
38288-01	SVE-2	9/15/20	10:30	10:31	-30	-4.52	SG	KB	2.7L	2296		X					
-02	SVE-1	9/15/20	10:40	10:41	-30	-4.6	SG	KB	2.7L	3184		X					
-03	SVE-3	9/15/20	10:50	10:51	-30	-1.86	SG	KB	2.7L	2022		X					
-04	SVE STACK	9/15/20	1100	1101	-30	-1.6	SG	KB	2.7L	197		X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	9/15/20 11:20	AAL	9-15-20 11:20
	9-15-20 1330		9/15/20 1330
	9/15/20 1630		9/15/20 16:30

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:	L2056132
Client:	Alpine Environmental 438 New Karner Road Albany, NY 12205
ATTN:	Kim Baines
Phone:	(518) 250-4047
Project Name:	350 NORTHERN BLVD
Project Number:	Not Specified
Report Date:	12/22/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2056132-01	SVE-1	SOIL_VAPOR	ALBANY, NY	12/15/20 15:15	12/15/20
L2056132-02	SVE-2	SOIL_VAPOR	ALBANY, NY	12/15/20 15:23	12/15/20
L2056132-03	SVE-3	SOIL_VAPOR	ALBANY, NY	12/15/20 15:30	12/15/20
L2056132-04	STACK EFFLUENT	SOIL_VAPOR	ALBANY, NY	12/15/20 15:40	12/15/20

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2056132
Project Number:	Not Specified	**Report Date:**	12/22/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2056132
Project Number:	Not Specified	**Report Date:**	12/22/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 11, 2020. The canister certification results are provided as an addendum.

L2056132-01 through -04: The samples has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 12/22/20

AIR

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:15
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/22/20 04:28
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	12.4	--	ND	61.3	--		62.19
Chloromethane	ND	12.4	--	ND	25.6	--		62.19
Freon-114	ND	12.4	--	ND	86.7	--		62.19
Vinyl chloride	ND	12.4	--	ND	31.7	--		62.19
1,3-Butadiene	ND	12.4	--	ND	27.4	--		62.19
Bromomethane	ND	12.4	--	ND	48.1	--		62.19
Chloroethane	ND	12.4	--	ND	32.7	--		62.19
Ethanol	ND	311	--	ND	586	--		62.19
Vinyl bromide	ND	12.4	--	ND	54.2	--		62.19
Acetone	ND	62.2	--	ND	148	--		62.19
Trichlorofluoromethane	ND	12.4	--	ND	69.7	--		62.19
Isopropanol	ND	31.1	--	ND	76.4	--		62.19
1,1-Dichloroethene	ND	12.4	--	ND	49.2	--		62.19
Tertiary butyl Alcohol	ND	31.1	--	ND	94.3	--		62.19
Methylene chloride	ND	31.1	--	ND	108	--		62.19
3-Chloropropene	ND	12.4	--	ND	38.8	--		62.19
Carbon disulfide	ND	12.4	--	ND	38.6	--		62.19
Freon-113	ND	12.4	--	ND	95.0	--		62.19
trans-1,2-Dichloroethene	ND	12.4	--	ND	49.2	--		62.19
1,1-Dichloroethane	ND	12.4	--	ND	50.2	--		62.19
Methyl tert butyl ether	ND	12.4	--	ND	44.7	--		62.19
2-Butanone	ND	31.1	--	ND	91.7	--		62.19
cis-1,2-Dichloroethene	107	12.4	--	424	49.2	--		62.19

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:15
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	31.1	--	ND	112	--		62.19
Chloroform	ND	12.4	--	ND	60.6	--		62.19
Tetrahydrofuran	ND	31.1	--	ND	91.7	--		62.19
1,2-Dichloroethane	ND	12.4	--	ND	50.2	--		62.19
n-Hexane	ND	12.4	--	ND	43.7	--		62.19
1,1,1-Trichloroethane	ND	12.4	--	ND	67.7	--		62.19
Benzene	ND	12.4	--	ND	39.6	--		62.19
Carbon tetrachloride	ND	12.4	--	ND	78.0	--		62.19
Cyclohexane	ND	12.4	--	ND	42.7	--		62.19
1,2-Dichloropropane	ND	12.4	--	ND	57.3	--		62.19
Bromodichloromethane	ND	12.4	--	ND	83.1	--		62.19
1,4-Dioxane	ND	12.4	--	ND	44.7	--		62.19
Trichloroethene	97.8	12.4	--	526	66.6	--		62.19
2,2,4-Trimethylpentane	ND	12.4	--	ND	57.9	--		62.19
Heptane	ND	12.4	--	ND	50.8	--		62.19
cis-1,3-Dichloropropene	ND	12.4	--	ND	56.3	--		62.19
4-Methyl-2-pentanone	ND	31.1	--	ND	127	--		62.19
trans-1,3-Dichloropropene	ND	12.4	--	ND	56.3	--		62.19
1,1,2-Trichloroethane	ND	12.4	--	ND	67.7	--		62.19
Toluene	ND	12.4	--	ND	46.7	--		62.19
2-Hexanone	ND	12.4	--	ND	50.8	--		62.19
Dibromochloromethane	ND	12.4	--	ND	106	--		62.19
1,2-Dibromoethane	ND	12.4	--	ND	95.3	--		62.19
Tetrachloroethene	3200	12.4	--	21700	84.1	--		62.19
Chlorobenzene	ND	12.4	--	ND	57.1	--		62.19
Ethylbenzene	ND	12.4	--	ND	53.9	--		62.19

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-01 D
Client ID: SVE-1
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:15
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	24.9	--	ND	108	--		62.19
Bromoform	ND	12.4	--	ND	128	--		62.19
Styrene	ND	12.4	--	ND	52.8	--		62.19
1,1,2,2-Tetrachloroethane	ND	12.4	--	ND	85.2	--		62.19
o-Xylene	ND	12.4	--	ND	53.9	--		62.19
4-Ethyltoluene	ND	12.4	--	ND	61.0	--		62.19
1,3,5-Trimethylbenzene	ND	12.4	--	ND	61.0	--		62.19
1,2,4-Trimethylbenzene	ND	12.4	--	ND	61.0	--		62.19
Benzyl chloride	ND	12.4	--	ND	64.2	--		62.19
1,3-Dichlorobenzene	ND	12.4	--	ND	74.6	--		62.19
1,4-Dichlorobenzene	ND	12.4	--	ND	74.6	--		62.19
1,2-Dichlorobenzene	ND	12.4	--	ND	74.6	--		62.19
1,2,4-Trichlorobenzene	ND	12.4	--	ND	92.0	--		62.19
Hexachlorobutadiene	ND	12.4	--	ND	132	--		62.19

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	92		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:23
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/22/20 05:06
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	ND	5.00	--	ND	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	ND	5.00	--	ND	14.7	--		10
cis-1,2-Dichloroethene	70.5	2.00	--	280	7.93	--		10

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:23
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	2.96	2.00	--	14.5	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	23.1	2.00	--	124	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	454	2.00	--	3080	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-02 D
Client ID: SVE-2
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:23
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	91		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:30
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/22/20 05:44
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	3.01	--	ND	14.9	--		15.03
Chloromethane	ND	3.01	--	ND	6.22	--		15.03
Freon-114	ND	3.01	--	ND	21.0	--		15.03
Vinyl chloride	ND	3.01	--	ND	7.69	--		15.03
1,3-Butadiene	ND	3.01	--	ND	6.66	--		15.03
Bromomethane	ND	3.01	--	ND	11.7	--		15.03
Chloroethane	ND	3.01	--	ND	7.94	--		15.03
Ethanol	ND	75.2	--	ND	142	--		15.03
Vinyl bromide	ND	3.01	--	ND	13.2	--		15.03
Acetone	ND	15.0	--	ND	35.6	--		15.03
Trichlorofluoromethane	ND	3.01	--	ND	16.9	--		15.03
Isopropanol	ND	7.52	--	ND	18.5	--		15.03
1,1-Dichloroethene	ND	3.01	--	ND	11.9	--		15.03
Tertiary butyl Alcohol	ND	7.52	--	ND	22.8	--		15.03
Methylene chloride	ND	7.52	--	ND	26.1	--		15.03
3-Chloropropene	ND	3.01	--	ND	9.42	--		15.03
Carbon disulfide	ND	3.01	--	ND	9.37	--		15.03
Freon-113	ND	3.01	--	ND	23.1	--		15.03
trans-1,2-Dichloroethene	4.19	3.01	--	16.6	11.9	--		15.03
1,1-Dichloroethane	ND	3.01	--	ND	12.2	--		15.03
Methyl tert butyl ether	ND	3.01	--	ND	10.9	--		15.03
2-Butanone	ND	7.52	--	ND	22.2	--		15.03
cis-1,2-Dichloroethene	637	3.01	--	2530	11.9	--		15.03

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:30
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	7.52	--	ND	27.1	--		15.03
Chloroform	7.24	3.01	--	35.4	14.7	--		15.03
Tetrahydrofuran	ND	7.52	--	ND	22.2	--		15.03
1,2-Dichloroethane	ND	3.01	--	ND	12.2	--		15.03
n-Hexane	ND	3.01	--	ND	10.6	--		15.03
1,1,1-Trichloroethane	ND	3.01	--	ND	16.4	--		15.03
Benzene	ND	3.01	--	ND	9.62	--		15.03
Carbon tetrachloride	ND	3.01	--	ND	18.9	--		15.03
Cyclohexane	ND	3.01	--	ND	10.4	--		15.03
1,2-Dichloropropane	ND	3.01	--	ND	13.9	--		15.03
Bromodichloromethane	ND	3.01	--	ND	20.2	--		15.03
1,4-Dioxane	ND	3.01	--	ND	10.8	--		15.03
Trichloroethene	201	3.01	--	1080	16.2	--		15.03
2,2,4-Trimethylpentane	ND	3.01	--	ND	14.1	--		15.03
Heptane	ND	3.01	--	ND	12.3	--		15.03
cis-1,3-Dichloropropene	ND	3.01	--	ND	13.7	--		15.03
4-Methyl-2-pentanone	ND	7.52	--	ND	30.8	--		15.03
trans-1,3-Dichloropropene	ND	3.01	--	ND	13.7	--		15.03
1,1,2-Trichloroethane	ND	3.01	--	ND	16.4	--		15.03
Toluene	ND	3.01	--	ND	11.3	--		15.03
2-Hexanone	ND	3.01	--	ND	12.3	--		15.03
Dibromochloromethane	ND	3.01	--	ND	25.6	--		15.03
1,2-Dibromoethane	ND	3.01	--	ND	23.1	--		15.03
Tetrachloroethene	861	3.01	--	5840	20.4	--		15.03
Chlorobenzene	ND	3.01	--	ND	13.9	--		15.03
Ethylbenzene	ND	3.01	--	ND	13.1	--		15.03

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-03 D
Client ID: SVE-3
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:30
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	6.01	--	ND	26.1	--		15.03
Bromoform	ND	3.01	--	ND	31.1	--		15.03
Styrene	ND	3.01	--	ND	12.8	--		15.03
1,1,2,2-Tetrachloroethane	ND	3.01	--	ND	20.7	--		15.03
o-Xylene	ND	3.01	--	ND	13.1	--		15.03
4-Ethyltoluene	ND	3.01	--	ND	14.8	--		15.03
1,3,5-Trimethylbenzene	ND	3.01	--	ND	14.8	--		15.03
1,2,4-Trimethylbenzene	ND	3.01	--	ND	14.8	--		15.03
Benzyl chloride	ND	3.01	--	ND	15.6	--		15.03
1,3-Dichlorobenzene	ND	3.01	--	ND	18.1	--		15.03
1,4-Dichlorobenzene	ND	3.01	--	ND	18.1	--		15.03
1,2-Dichlorobenzene	ND	3.01	--	ND	18.1	--		15.03
1,2,4-Trichlorobenzene	ND	3.01	--	ND	22.3	--		15.03
Hexachlorobutadiene	ND	3.01	--	ND	32.1	--		15.03

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:40
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/22/20 06:26
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	5.20	--	ND	25.7	--		26.01
Chloromethane	ND	5.20	--	ND	10.7	--		26.01
Freon-114	ND	5.20	--	ND	36.3	--		26.01
Vinyl chloride	ND	5.20	--	ND	13.3	--		26.01
1,3-Butadiene	ND	5.20	--	ND	11.5	--		26.01
Bromomethane	ND	5.20	--	ND	20.2	--		26.01
Chloroethane	ND	5.20	--	ND	13.7	--		26.01
Ethanol	ND	130	--	ND	245	--		26.01
Vinyl bromide	ND	5.20	--	ND	22.7	--		26.01
Acetone	ND	26.0	--	ND	61.8	--		26.01
Trichlorofluoromethane	ND	5.20	--	ND	29.2	--		26.01
Isopropanol	ND	13.0	--	ND	32.0	--		26.01
1,1-Dichloroethene	ND	5.20	--	ND	20.6	--		26.01
Tertiary butyl Alcohol	ND	13.0	--	ND	39.4	--		26.01
Methylene chloride	ND	13.0	--	ND	45.2	--		26.01
3-Chloropropene	ND	5.20	--	ND	16.3	--		26.01
Carbon disulfide	ND	5.20	--	ND	16.2	--		26.01
Freon-113	ND	5.20	--	ND	39.9	--		26.01
trans-1,2-Dichloroethene	ND	5.20	--	ND	20.6	--		26.01
1,1-Dichloroethane	ND	5.20	--	ND	21.0	--		26.01
Methyl tert butyl ether	ND	5.20	--	ND	18.7	--		26.01
2-Butanone	ND	13.0	--	ND	38.3	--		26.01
cis-1,2-Dichloroethene	179	5.20	--	710	20.6	--		26.01

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:40
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	13.0	--	ND	46.8	--		26.01
Chloroform	ND	5.20	--	ND	25.4	--		26.01
Tetrahydrofuran	ND	13.0	--	ND	38.3	--		26.01
1,2-Dichloroethane	ND	5.20	--	ND	21.0	--		26.01
n-Hexane	ND	5.20	--	ND	18.3	--		26.01
1,1,1-Trichloroethane	ND	5.20	--	ND	28.4	--		26.01
Benzene	ND	5.20	--	ND	16.6	--		26.01
Carbon tetrachloride	ND	5.20	--	ND	32.7	--		26.01
Cyclohexane	ND	5.20	--	ND	17.9	--		26.01
1,2-Dichloropropane	ND	5.20	--	ND	24.0	--		26.01
Bromodichloromethane	ND	5.20	--	ND	34.8	--		26.01
1,4-Dioxane	ND	5.20	--	ND	18.7	--		26.01
Trichloroethene	74.4	5.20	--	400	27.9	--		26.01
2,2,4-Trimethylpentane	ND	5.20	--	ND	24.3	--		26.01
Heptane	ND	5.20	--	ND	21.3	--		26.01
cis-1,3-Dichloropropene	ND	5.20	--	ND	23.6	--		26.01
4-Methyl-2-pentanone	ND	13.0	--	ND	53.3	--		26.01
trans-1,3-Dichloropropene	ND	5.20	--	ND	23.6	--		26.01
1,1,2-Trichloroethane	ND	5.20	--	ND	28.4	--		26.01
Toluene	ND	5.20	--	ND	19.6	--		26.01
2-Hexanone	ND	5.20	--	ND	21.3	--		26.01
Dibromochloromethane	ND	5.20	--	ND	44.3	--		26.01
1,2-Dibromoethane	ND	5.20	--	ND	40.0	--		26.01
Tetrachloroethene	1390	5.20	--	9430	35.3	--		26.01
Chlorobenzene	ND	5.20	--	ND	23.9	--		26.01
Ethylbenzene	ND	5.20	--	ND	22.6	--		26.01

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

SAMPLE RESULTS

Lab ID: L2056132-04 D
Client ID: STACK EFFLUENT
Sample Location: ALBANY, NY

Date Collected: 12/15/20 15:40
Date Received: 12/15/20
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	10.4	--	ND	45.2	--		26.01
Bromoform	ND	5.20	--	ND	53.8	--		26.01
Styrene	ND	5.20	--	ND	22.1	--		26.01
1,1,2,2-Tetrachloroethane	ND	5.20	--	ND	35.7	--		26.01
o-Xylene	ND	5.20	--	ND	22.6	--		26.01
4-Ethyltoluene	ND	5.20	--	ND	25.6	--		26.01
1,3,5-Trimethylbenzene	ND	5.20	--	ND	25.6	--		26.01
1,2,4-Trimethylbenzene	ND	5.20	--	ND	25.6	--		26.01
Benzyl chloride	ND	5.20	--	ND	26.9	--		26.01
1,3-Dichlorobenzene	ND	5.20	--	ND	31.3	--		26.01
1,4-Dichlorobenzene	ND	5.20	--	ND	31.3	--		26.01
1,2-Dichlorobenzene	ND	5.20	--	ND	31.3	--		26.01
1,2,4-Trichlorobenzene	ND	5.20	--	ND	38.6	--		26.01
Hexachlorobutadiene	ND	5.20	--	ND	55.5	--		26.01

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	94		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2056132
Report Date: 12/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/20 15:39

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1447844-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2056132
Report Date: 12/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/20 15:39

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1447844-4								
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: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2056132
Report Date: 12/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/21/20 15:39

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1447844-4								
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: 350 NORTHERN BLVD

Project Number: Not Specified

Lab Number: L2056132

Report Date: 12/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1447844-3								
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	96		-		70-130	-		
Freon-114	87		-		70-130	-		
Vinyl chloride	80		-		70-130	-		
1,3-Butadiene	87		-		70-130	-		
Bromomethane	85		-		70-130	-		
Chloroethane	83		-		70-130	-		
Ethanol	69		-		40-160	-		
Vinyl bromide	98		-		70-130	-		
Acetone	75		-		40-160	-		
Trichlorofluoromethane	101		-		70-130	-		
Isopropanol	82		-		40-160	-		
1,1-Dichloroethene	84		-		70-130	-		
Tertiary butyl Alcohol	80		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	94		-		70-130	-		
Carbon disulfide	88		-		70-130	-		
Freon-113	105		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
2-Butanone	108		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1447844-3								
Ethyl Acetate	90		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	102		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	89		-		70-130	-		
1,1,1-Trichloroethane	115		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	110		-		70-130	-		
Cyclohexane	88		-		70-130	-		
1,2-Dichloropropane	99		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	109		-		70-130	-		
2,2,4-Trimethylpentane	93		-		70-130	-		
Heptane	116		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	120		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	112		-		70-130	-		
Toluene	104		-		70-130	-		
2-Hexanone	123		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1447844-3								
Tetrachloroethene	102		-		70-130	-		
Chlorobenzene	102		-		70-130	-		
Ethylbenzene	113		-		70-130	-		
p/m-Xylene	115		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	107		-		70-130	-		
o-Xylene	117		-		70-130	-		
4-Ethyltoluene	110		-		70-130	-		
1,3,5-Trimethylbenzene	111		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Benzyl chloride	115		-		70-130	-		
1,3-Dichlorobenzene	108		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	109		-		70-130	-		
1,2,4-Trichlorobenzene	119		-		70-130	-		
Hexachlorobutadiene	119		-		70-130	-		

Project Name: 350 NORTHERN BLVD

Lab Number: L2056132

Project Number:

Report Date: 12/22/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2056132-01	SVE-1	556	2.7L Can	12/11/20	338026	L2054808-06	Pass	-29.4	-3.1	-	-	-	-
L2056132-02	SVE-2	2598	2.7L Can	12/11/20	338026	L2054808-06	Pass	-29.4	-3.0	-	-	-	-
L2056132-03	SVE-3	525	2.7L Can	12/11/20	338026	L2054808-06	Pass	-29.3	0.0	-	-	-	-
L2056132-04	STACK EFFLUENT	2212	2.7L Can	12/11/20	338026	L2054808-06	Pass	-29.4	0.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/09/20 20:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		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: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/09/20 20:51
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2054808

Project Number: CANISTER QC BAT **Report Date:** 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2054808
Report Date: 12/22/20

Air Canister Certification Results

Lab ID: L2054808-06
Client ID: CAN 2198 SHELF 7
Sample Location:

Date Collected: 12/09/20 09:00
Date Received: 12/09/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	91		60-140

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified

Lab Number: L2056132
Report Date: 12/22/20

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(*)
L2056132-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2056132-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2056132-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2056132-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2056132
Project Number:	Not Specified	**Report Date:**	12/22/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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:	350 NORTHERN BLVD	**Lab Number:**	L2056132
Project Number:	Not Specified	**Report Date:**	12/22/20

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	350 NORTHERN BLVD	**Lab Number:**	L2056132
Project Number:	Not Specified	**Report Date:**	12/22/20

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: 350 NORTHERN BLVD
Project Number: Not Specified
Lab Number: L2056132
Report Date: 12/22/20

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/16/20

ALPHA Job #: L2056132

Client Information

Client: Alpine Environmental Ser.
Address: 438 New Karner Rd
Albany NY
Phone: 518-586-2104
Fax:
Email: KimB@Alpineenv.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 350 Northern Blvd
Project Location: Albany NY
Project #:
Project Manager: BAINES
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 #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subject Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
56132-01	SVE-1	12/15/20	1514	1515	-30	-4.2	SG	KB	2.7L	556		X					
-02	SVE-2	12/15/20	1522	1523	-30	-4.5	SG	KB	2.7L	2598		X					
-03	SVE-3	12/15/20	1529	1530	-30	-2.1	SG	KB	2.7L	525		X					
-04	STACK EFFLUENT	12/15/20	1539	1540	-26.8	-1.8	SG	KB	2.7L	2212		X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	12/15/20 1600	AAL	12/15/20 1600
	12/15/20 1605	T. Handle	12/16/20 0400
T. Handle 12/16/20 0570			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Appendix I: As-Built Drawings

- Figure V-3: SSD System As Built, 1st Floor
- Figure V-3e: SSD System As Built, Roof
- Figure S-100: SVE System As Built

SCALE

0 5 10 15 20

(DISTANCE IN FEET)

SSD SYSTEM LEGEND

- EXTRACTION POINT (EP)
- SOLID SCHEDULE 40 PVC PIPING
- PERFORATED SCHEDULE 40 PVC PIPING
- ELECTRIC PANEL
- MONITORING PANEL WITH ALARM AND PRESSURE GAUGE

Alpine Inc. ENVIRONMENTAL SERVICES

DATE: October 2017

Loudon Plaza
350 Northern Boulevard
Albany, New York

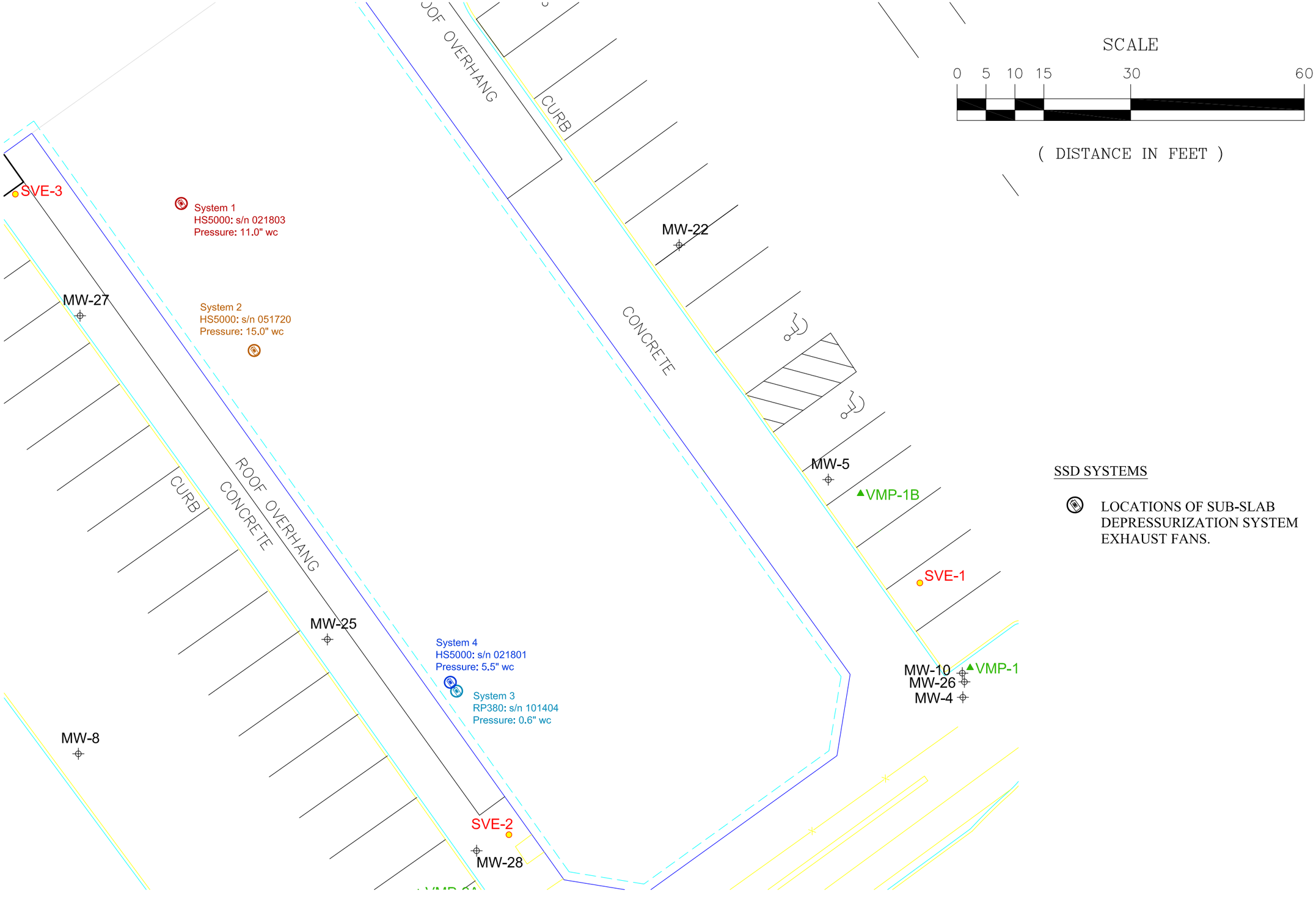
DESCRIPTION:	DATE:
As Built	4/2/2018
	10/18/2017

PROJECT NO:

SHEET NO:

V - 3

SHEET TITLE:	SUBSLAB DEPRESSURIZATION SYSTEM LAYOUT			
DRAWN BY:	BG	CHECKED BY:	MS	AS BUILT



SCALE

0 5 10 15 30 60

(DISTANCE IN FEET)

SSD SYSTEMS

LOCATIONS OF SUB-SLAB DEPRESSURIZATION SYSTEM EXHAUST FANS.

Alpine Inc. ENVIRONMENTAL SERVICES

DATE: October 2017

Loudon Plaza
350 Northern Boulevard
Albany, New York

DESCRIPTION:	DATE:
As Built	4/2/2018
	10/18/2017

PROJECT NO:

SHEET NO:

V - 3e

SHEET TITLE:	SUBSLAB DEPRESSURIZATION SYSTEM - ROOF			
DRAWN BY:	BG	CHECKED BY:	MS	AS BUILT

The alteration of this material in any way, unless done under the direction of a comparable professional (i.e. Engineer for an Engineer), is a violation of the New York State Education Law and/or regulations and is a Class "A" misdemeanor.

Alpine Engineering Services LLC

Mark Schnitzer, PE

Former Loudon and KEM Cleaner Site
350 Northern Boulevard
Albany, New York

DESCRIPTION:	Final	As Built
DATE:	September 17, 2018	September 13, 2019

PROJECT NO: 18-100

SHEET NO:

S - 100

SHEET TITLE:	SOIL VAPOR EXTRACTION SYSTEM - SYSTEM LAYOUT - AS BUILT
CHECKED BY:	Mark Schnitzer, PE

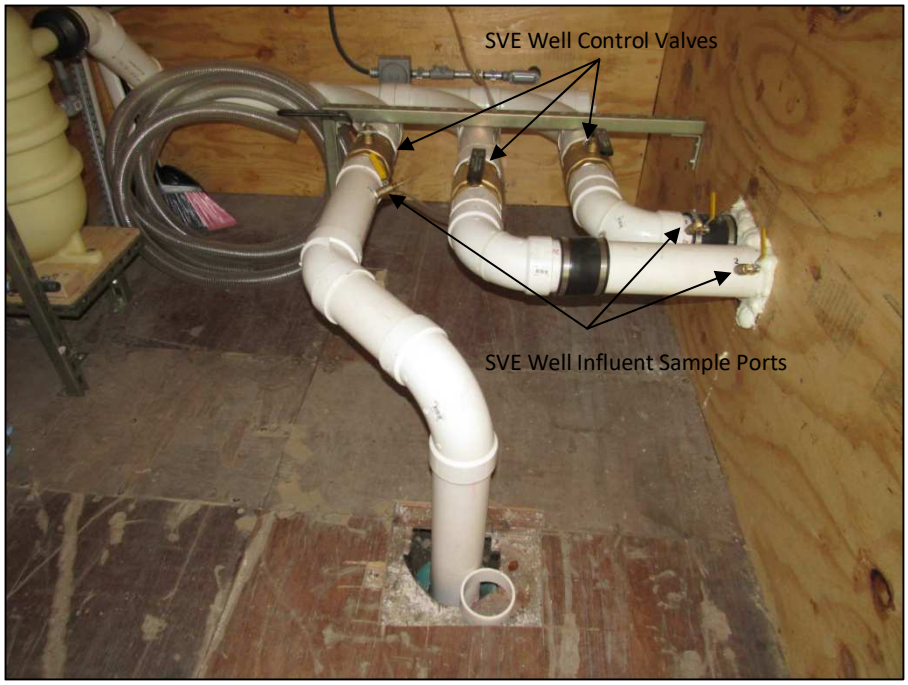
Appendix J: SVE Construction Photos

Southern wing of the building at 350 Northern Blvd., with the SVE Shed at far left.

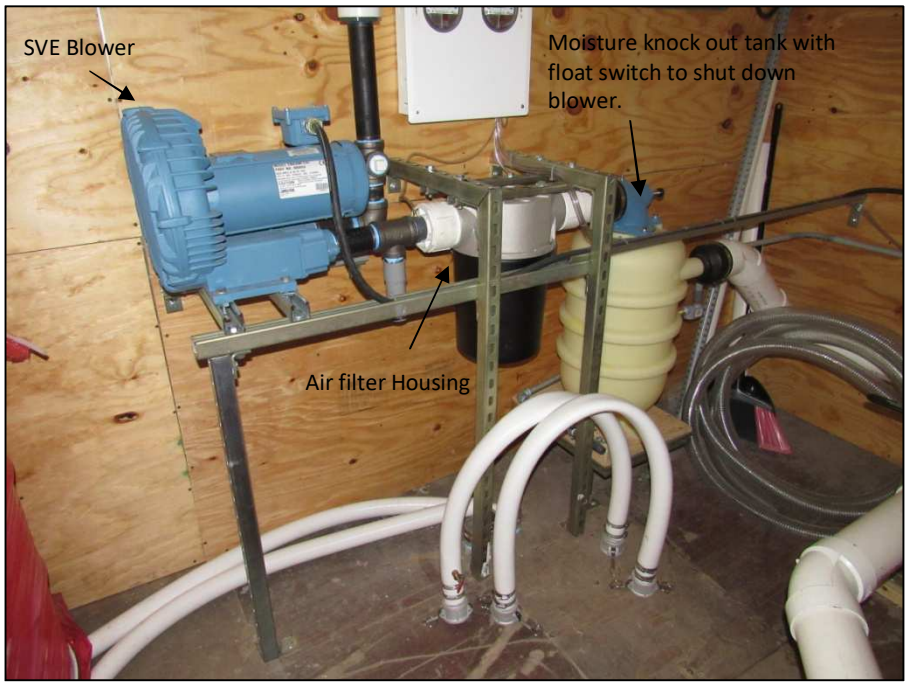
SVE shed with exhaust pipe exiting and exhausting above the adjacent high roof.

Electrical supply box housing the shed electrical supply and the variable frequency drive (VFD) for the SVE blower.

Extraction wells SVE-1 and SVE-2 conveyance piping rising above ground and entering the SVE shed.



Extraction well SVE-3 conveyance piping rising above ground through the shed floor and entering the SVE shed.



SVE system moisture knock out tank, air filter, and regenerative blower.

System effluent air temperature gauge and pressure gauges for each SVE well, pre and post air filter, and post blower effluent line.

SVE Shed exhaust fan connected to a thermostat for cooling the shed.

Air intake grate for bringing cooler air into shed when exhaust fan operates.

Electric heater for heating the SVE shed, connected to a thermostat.