FORMER ZOE CHEMICAL SITE

1801 FALMOUTH AVENUE, NEW HYDE PARK
NASSAU COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: 130211

Prepared for:

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and

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JANUARY 2025

CERTIFICATIONS

I, Kevin M. Taylor, 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 Department-approved Remedial Design.

I certify that the data submitted to the Department 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 Department.

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 Department.

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

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, Kevin M. Taylor, of H2M architects + engineers, am certifying as Owner’s Designated Site Representative for the site.

102086	1/22/2025	Kevin M. Taylor 2025.01.22 12:47:04 -05'00'
NYS Professional Engineer #	Date	Signature

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LIST OF ACRONYMS

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CCR	Construction Completion Report
CP	Commissioner Policy
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
FER	Final Engineering Report
GHG	Greenhouse Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
P.E. or PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision

RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SC	Site Characterization
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Seaboard Estates, Inc. entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) in December 2012, to investigate and remediate a two-acre property located in Nassau County, New Hyde Park, New York. The property was remediated to commercial use.

The 1801 Falmouth Avenue, New Hyde Park NY site is located in the County of Nassau, New York and is identified as Section 8, Block 189 and Lots 1 through 12 and 42 through 73 on the Nassau County Tax Map (Tax Map Parcel Number 246). The site is situated on an approximately two-acre area bounded by a wellfield for the Water Authority of Western Nassau County as well as athletic fields for Michael J. Tully Park to the north, Falmouth Avenue and commercial buildings to the south, Denton Avenue to the east, and Gould Street to the west (see Figure 1). The boundaries of the site are fully described in Appendix A: Survey Map, Metes and Bounds and Appendix C: Environmental Easement.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

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

- 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

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into onsite building(s).

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the ROD dated March 2022.

The factors considered during the selection of the remedy are those listed in 6 NYCRR 375-1.8. The following are the components of the selected remedy as discussed in the ROD:

The No Further Action with Site Management Alternative recognizes the remediation of the site completed by the IRMs, and the current existence of a site cover. Additionally, it requires Site Management that includes Institutional Controls and Engineering Controls to achieve remedial action objectives. This alternative maintains engineering controls which were part of the IRM and includes institutional controls, in the form of an environmental easement and site management plan, necessary to protect public health and the environment from contamination remaining at the site after the IRMs.

1. Soil Vapor Extraction

Soil vapor extraction (SVE) activities commenced under an IRM will continue to be implemented to remove VOCs from the subsurface soils and soil vapor. VOCs will be 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 extracted from the SVE wells is then treated using a series of two drums containing granular activated carbon and then discharged to the atmosphere.

The SVE system consists of three, two-inch diameter wells (SVE-1 through SVE-3)installed into the vadose zone and screened from five feet below the ground surface to a depth of approximately 15 feet below ground surface and three, four-inch diameter sub-slab extraction points (SSD-4 through SSD-6). The air extracted from the SVE wells is treated by passing the air stream through activated carbon drums, which removes the VOCs from the air prior to it being discharged to the atmosphere.

2. Sub-slab Depressurization System

When the SVE system no longer recovers significant contamination as defined in the Site Management Plan, the SVE system will be evaluated for shutdown consideration. This evaluation will assess if the system will be removed or transitioned to a sub-slab depressurization system, which would be continually operated and maintained until long-term monitoring data indicates the system is no longer needed.

3. Cover System

A site cover currently consists of the site building and asphalt pavement, which will be maintained to allow for the current commercial use of the site. The steep slope and thick vegetation in the northern portion of the site prohibits access and commercial use of this area. Any areas of the site that are redeveloped will be required to have a site cover when completed. The site cover may include paved surface parking areas, or soil where the upper one foot of exposed surface soil meets the applicable SCOs for commercial use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR 375-6.7(d) (as discussed in the ROD).

4. Engineering and Institutional Controls

Imposition of an institutional control in the form of an environmental easement for the controlled property, which will:

- Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with 6 NYCRR 375-1.8(h)(3);
- Allow the use and development of the controlled property for commercial use as defined by 6 NYCRR 375-1.8(g), consistent with local zoning laws;
- Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or Nassau County DOH and prior approval by the Department; and
- Require compliance with the Department approved Site Management Plan.

5. Site Management Plan

A Site Management Plan is required, which includes the following:

a. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed above.

Engineering Controls: The existing cover and IRM soil vapor extraction/sub-slab depressurization system discussed above.

This plan also includes, but may not be limited to:

- An Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- Descriptions of the provisions of the environmental easement including any land use, and groundwater use restrictions;
- A provision for evaluating soils under the building if and when the building is demolished or becomes vacant and making a determination if any further remedial action is warranted;
- A provision for evaluation of the potential for soil vapor intrusion for any newly occupied buildings on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- A provision that should the existing cover be removed in the future, a cover system consistent with that described in remedial element #3 Cover System will be placed in any areas where the upper one foot of exposed surface soil exceed the applicable SCOs;
- Provisions for the management and inspection of the identified engineering controls;
- Maintaining site access controls and Department notification; and

- The steps necessary for the periodic reviews and certification of the institutional and engineering controls;

b. 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:

- Procedures for operating and maintaining the remedy;
- Compliance monitoring of treatment systems and cover systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
- Maintaining site access controls and Department notification;
- Providing the Department access to the site and O&M records; and
- Monitoring for vapor intrusion for any new buildings developed on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

6. Green Remediation

Green remediation principles and techniques will be implemented to the extent feasible in the site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gas and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials; and
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste.

3.0 iNTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

3.1 INTERIM REMEDIAL MEASURES

The information and certifications made in the February 2016, Construction Completion Report – Part A (CCR-Part A) were relied upon to prepare this report and certify that the remediation requirements for the site have been met. The CCR- Part A was prepared in accordance with the approved IRM Work Plan dated January 2015.

This CCR- Part A included soil excavation and disposal activities; the excavation, cleaning, and disposal of a former septic tank and leaching pool; the installation of Soil Vapor Extraction (SVE) wells; installation of a groundwater monitoring well; the performance and evaluation of an SVE system pilot test; and the proposed design and specifications for the construction of an SVE system.

Removal of Out of Service Cesspools

Prior to undertaking the interim measures, the materials both inside and outside of the cesspools were characterized for selecting an appropriate disposal facility. Based on the waste characterization results, all of the materials inside the structures were considered hazardous, and the materials outside of the structures were considered non-hazardous. On February 20, 2015, an excavator with a hammer attachment was mobilized to the site to open the pavement and expose the covers to the two buried cesspools. The removed pavement and cover soil was placed aside. A high-vacuum excavator or "guzzler" was then used to remove the material from within the cesspools. The material within the cesspools was placed from the guzzler directly into a poly-lined roll-off container suitable for transportation. Once the contents of the cesspools were removed, arrangements were made to transport the 19 tons of materials (considered hazardous) to EnGlobe Corporation of Montreal-East, Canada.

On February 21, 2015, an excavator was mobilized to the property. The excavator removed the soil from around the cesspools. Once the soil from above and around the cesspools was removed, the excavator was used to grab and lift the emptied pools out of the ground and place them on bermed plastic sheeting. The western pool (septic tank) was six feet in diameter with solid walls and bottom. A baffle was located along the center of the western pool. The eastern pool (leaching pool) was eight feet in diameter with perforated walls and an open bottom. The septic system was connected by a four-inch pipe.

The concrete structures were then placed aside to be sampled to determine if they could be disposed of as Construction & Demolition (C&D) debris. The results from the concrete structures indicated that they were classified as non-hazardous. However, based on the limited space available onsite, the 5.65 tons of the concrete structures were removed as hazardous and transported to Envirosafe Services of Ohio, Inc. of Oregon, Ohio.

Using a large bucket, the excavator continued to remove contaminant-impacted soil from around the excavation. The bottom and side walls of the excavation were screened with a PID, as well as by physical observations (discoloration and odor), as the excavation was advanced. The excavated soil from outside the structures was tested according to DER-10, prior to disposal. The approximate dimensions of the combined excavations were 30 feet in length, 20 feet in width, and 15 feet deep.

End-point soil samples were then collected from the bottom and side walls of the excavation and were analyzed for VOCs via EPA method 8260, pesticides via EPA method 8081 and for the metals cadmium, copper & mercury via SW6010/SW4771B. Based on the size of the excavation eight endpoint samples were obtained. No VOCs or metals were detected exceeding their Part 375 Commercial Use SCOs. No pesticides were detected exceeding Commercial Use SCOs in five of the samples. Aldrin was detected in three of the endpoint samples exceeding its Commercial Use SCOs, but well below levels previously detected within the area of excavation, as described in the Site Characterization Report. After the collection of the end-point samples, arrangements were made for the excavation to be backfilled. After the backfill material was sampled and analyzed, 200 yards of quarry sand and 120 yards of recycled concrete aggregate were imported to the Site.

From February 23rd to the 26th 2015, the excavator was used to load the nonhazardous stockpiled soil onto trucks for transport to the Conestoga Landfill in Morgantown, Pennsylvania. A total of 326.52 tons of soil was transported under nonhazardous soil manifests to the approved facility. A site plan and locations of the former cesspools is identified in Figure 2.

Installation of Water Table Monitoring Well

Previously, during the April 2013 investigation for the site characterization, monitoring well MW-4 was installed to monitor the water quality south (downgradient) of the former cesspools. This well encountered an obstruction and was installed in a "perched water" zone to a total depth of 15 feet. Well MW-4 was removed during the removal of the out of service cesspools. On June 1, 2015, MW-4 was re-installed just outside of the former excavation to a depth that intersects the water table below the property. The well was installed in a similar fashion to the wells installed during the site characterization utilizing a Geoprobe direct push drill rig to a total depth of 45 feet below surface grade.

Soil Vapor Pilot Test

An SVE system was proposed to be installed and operated to control the existing sub-slab vapors and the vapors emanating from the residual contamination in the subsurface. On June 2, 2015, a Geoprobe drilling system was mobilized to the site. Three vertical 2-inch SVE wells were installed. As the bottom endpoint sample concentrations (obtained during the removal of the out-of-service cesspools) were less than the NYSDEC Part 375 Commercial SCOs, the slotted sections of the wells were installed from five feet to 15 feet below grade (the depth of the excavation). Specific schematics and construction details of the installation are further discussed in the CCR – Part A Report.

Once the installation of the three SVE wells was completed, a trench was dug to install piping in order to horizontally connect the SVE wells. The horizontal piping is constructed of two-inch diameter solid PVC pipe. In addition to the exterior SVE wells, three sub-slab vents were installed through the floor within the building. The vents are constructed of 4-inch diameter PVC pipe with slotted screens, an open bottom, and surrounded with pea gravel. The vents extend approximately two feet below the bottom of

the concrete slab and are sealed into the floor with concrete.

On June 29, 2015, pilot tests of all of the exterior SVE wells and interior sub-slab vents were performed using a regenerative blower equipped with a variable frequency drive to control the rotation speed. A section of plastic hose was attached to a single exterior SVE well and to the suction side of the blower. The well was tested at several flow rates during the course of the test. The vacuum at the inlet of the blower and at the remaining two SVE wells was monitored during the test using an Infiltec® Model DM1 Digital Micro-Manometer. The flow rate of the blower was also recorded during each step of the test. PID readings were recorded as the test progressed. A SUMMA canister was used to collect a sample for analysis of VOCs using EPA Method TO-15 from Test #1 at well SVE-2. The sample was collected within the first few minutes of the pilot test.

After the pilot testing of the exterior SVE wells was completed, the suction side of the blower was connected to the central interior sub-slab vent and a similar series of tests was performed. During the interior portion of the pilot test, vapors were removed by a four-inch hose that was connected from the blower and extended to the outside of the building. Holes 5/16 of an inch in diameter were drilled through the floor and a rubber stopper equipped with a barbed fitting was inserted in the hole to measure the vacuum achieved at its location. These temporary pressure differential points were installed throughout the building to adequately assess the radius of influence of the system during the pilot test. All temporary points were sealed with concrete when the pilot test was completed. The sub-slab vents were temporarily sealed after the pilot test.

Remedial System Design

After the pilot tests were completed, the results were used for determining the radius of influence that the SVE system achieved during the test. It was determined that the radius of influence is 160 feet (min.) for SVE-2 at 35" of water or larger vacuums, and 60 feet (min.) for 9" of water or larger vacuums in SVE-5.

Based on the pilot test, with continuous operation of the SVE system at design vacuums and flow rates, the vacuum influence of SVE extends under the slab throughout the area where the contaminated vapors were identified (eastern portion of the building). It was found during the pilot test that the radius of influence extends at least 30 to 40 feet

radially from all of the points in the areas where the contaminated vapors were identified. A 175 CFM extraction blower operating at a vacuum of 50 inches of water was provided in the design. An Ametek Rotron model EN757FL5MWL 5.5 HP blower (or equivalent) capable of generating 50 inches of water vacuum and 175 cfm of flow is the selected blower for this system. Carbon filtration was incorporated in the design of the system to operate until data from the operational system supports discontinuation of the carbon. Two Carbitrol Model G-2 Carbon (or equivalent) Pollution Control Barrels are the selected carbon units for the system. These units contain 170 pounds of carbon each. An Amtek Rotron model MS350BS (or equivalent) moisture knock-out drum is connected to the blower, which, in turn is connected to the carbon drums. Continued maintenance sampling is required to confirm the performance of the system.

The information and certifications made in the March 2017, Construction Completion Report – Part B (CCR-Part B) were relied upon to prepare this report and certify that the remediation requirements for the site have been met. The CCR- Part B was prepared in accordance with the approved IRM Work Plan dated January 2015 and the Construction Completion Report – Part A dated February 2016.

The CCR - Part B Report included: as-built drawings for the SVE system; start-up data for the system; a monitoring and reporting schedule for the system; operation and maintenance procedures for the equipment; and criteria to terminate the operation of the equipment.

Installation of the SVE System

The sub-slab SVE system was designed to address the shallow-soil vapors below the warehouse floor. A hammer drill fitted with a core bit was used to bore through the concrete floor. Once the concrete floor was cored out, a hole was then advanced using a hand auger to remove the underlying soils until the final depth required for the vent installation was achieved. The vents are constructed of 4-inch diameter PVC pipe with slotted screens, an open bottom, and are surrounded with pea gravel. The vents extend approximately two feet below the bottom of the slab and are sealed into the floor with concrete as shown on Figure 3.

SVE wells were installed in order to further address any residual contamination from the removal of the former septic system in the parking lot. All SVE wells were installed to a depth of 15-feet below grade (shown on Figure 4). Each SVE well was finished with a 23-inch diameter flush-mounted manhole cover. Once the installation of the three SVE wells was completed, a trench was dug to install piping in order to both horizontally connect the SVE wells to each other underground as well as connect the wells to the SVE system located inside the building. The horizontal piping is constructed of 2-inch solid PVC pipe. Based on the current use of the Site as an active lumber yard, the 2-inch horizontal piping was placed inside a 4-inch PVC pipe to create a protective sleeve. The location of the SVE vents and wells, as well as the subsurface trenching is shown on Figure 5.

Installation of PVC Risers

On August 17, 2016, three 4-inch diameter PVC pipes were installed to extend up to the roof after being connected to each of the vents installed in the floor of the warehouse. The riser vents were then connected to a manifold above the roof. A 4-inch riser was placed in the center of the manifold and extended six feet above the pitch pocket and capped for future use.

Installation of Moisture Knock-Out Drum, Blower and Carbon Drums

On August 19, 2016, a moisture knock-out drum, Airtech® Vacuum 4.62 HP regenerative blower and two 55-gallon-carbon drums were installed inside an enclosed room in the Site's warehouse. The moisture knock-out drum was connected to the four-inch diameter PVC vent on the roof. The moisture knock-out drum was then connected to the blower, which was, in turn connected to the carbon drums. The carbon drums were then connected to a four-inch diameter PVC vent that extends above the roof. A schematic of the system layout on the roof is included on Figure 6.

System Start–Up

A start-up test of the SVE system was conducted on September 21, 2016. Temporary vacuum points were drilled through the warehouse floor approximately 15 feet and 50 feet from each of the permanent interior vents. Once the blower was turned on, vacuum readings were measured at the three interior SVE vents, the temporary vacuum points, and the three exterior SVE wells with a hand-held digital manometer. The blower remained on with vacuum readings ranging from -36 to -40 inches of water. The radius of influence measured during the start-up test was in general agreement with the results of the pilot test that was conducted on June 29, 2015.

SVE Termination Criteria

- Once the levels of total VOCs in the raw influent decrease to a near constant or asymptotic concentration (as approved by NYSDEC) and it is demonstrated that shutdown of the system will not result in the migration of unacceptable concentrations of residual vapors to the on-site and off-site structures (as approved by NYSDOH), operation of the system will be suspended.
- A shutdown plan will be submitted to the NYSDEC for review and approval. This plan will discuss the conversion of the system to a soil vapor intrusion mitigation system and/or propose sampling activities for complete shutdown of the system. The plan will include concurrent sub-slab vapor/indoor air sampling within the Site building to determine whether exposure concerns related to soil vapor intrusion remain.
- The overall remedy must meet the remedial action objectives of the project, and the soil vapor concentrations must remain protective of the contemplated use of the on-site and off-site structures. If any improvements or changes are made to the interior building layout in areas outside of the SVE system's radius of influence, additional soil vapor intrusion sampling and/or expansion of the SVE system may be warranted. The NYSDEC and NYSDOH will be notified in advance of any such plans.

3.2 OPERABLE UNITS

There were no operable units involved with the completion of this project.

3.3 REMEDIAL CONTRACTS

There were no remedial contracts involved with the completion of this project.

4.0 Description of Remedial Actions performed

Remedial activities completed at the site were conducted in accordance with the NYSDEC-approved Remedial Design (RD) that was included in the Construction Completion Report – Part A for the Former Zoe Chemical site in February 2016. All deviations from the RD are noted below.

4.1 GOVERNING DOCUMENTS

4.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the site.

4.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix B of the 2015 IRM Work Plan approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Community Air Monitoring Plan (CAMP)

Real-time air monitoring, for volatile organic compounds and particulate levels at the perimeter of the work area was performed during excavation activities.

Dust particulates in air was monitored using a light scattering technique MINIRAM Model PDM-3 Miniature Real-time Aerosol Monitor (MINIRAM) or equivalent. The MINIRAM is capable of measuring airborne dust particles within the range of 10 to 100,000 micrograms per cubic meter ($\mu g/m^3$). Dust monitoring occurred at regular intervals during excavation work activities. Monitoring was conducted in upgradient and downgradient locations, (relative to prevailing wind direction) along the perimeter of the

work zone. If particulate levels in the downwind location were 150 mg/m3 greater than those measured in the upwind location, dust suppression techniques were employed.

Real-time monitoring for total organic vapor (TOV) was performed utilizing a photoionization detector (PID). The appropriate PID used was a MiniRae™ PID or equivalent, with organic vapor monitoring performed as outlined in the NYSDOH Community Air Monitoring Plan. Specifically, monitoring was conducted at the downwind perimeter of the work zone periodically during work activities. If TOV levels exceed 5 parts per million (ppm) above established pre-work background levels, work activities were halted and monitoring would be continued under the provision of a Vapor Emission Response Plan (as outlined in the Community Air Monitoring Plan).

If the organic vapor level decreases below 5 ppm above background, work activities can resume. If the organic vapor levels are greater than 5 ppm over background but less than 25 ppm over background at the perimeter of the work area, activities can resume provided:

- The organic vapor level 200 ft. downwind of the work area or half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm over background. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. When work shutdown occurs, downwind air monitoring as directed by the Safety Officer will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

4.1.4 Community Participation Plan

NYSDEC prepared the Community Participation Plan for the Former Zoe Chemical Site in August 2014 (revised September 2014). At that time the elements that were performed during the Remedial Action under the CPP include: performing IRMs at the site in order to pump, clean and remove the two identified cesspools, and install and operate a SVE system. Additionally, the Remedial Investigation and Feasibility Study was also performed at the Site. Based on this information a “No Further Action” ROD was issued

at the Site in March 2022. In August 2024, the Site Management Plan for the Site was approved.

Currently, the Site is being monitored under the approved SMP. The site's SVE system is being sampled quarterly and the information generated is reported in Quarterly Monitoring Reports. Additionally, annual cover system inspections will take place and the information generated will be discussed in the annual Periodic Review Report.

A document repository was established at the following location:

Hillside Public Library
155 Lakeville Road
New Hyde Park, NY 11040

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

Contractor/Consultant Name	Responsibility
Ravi Korlipara, P.E.	Project Engineer (January 2015-September 2024)
Kevin Taylor, P.E., P.G. H2M architects + engineers	Project Engineer (October 2024-Present)
CA RICH Consultants, Inc.	Environmental Consultant (2012-September 2024)
H2M architects + engineers	Environmental Consultant (September 2024-present)
Aarco Environmental Services Corp.	Drilling Contractor
Allied Roofing	Roofer
Enviro Trac LTD	System Technical Support
Aarco Environmental Services Corp.	Trenching Contractor
Recine Electric	Electrician

4.2.2 Site Preparation

Because the site is developed with a building and a parking lot, no physical site preparation was necessary. A pre-construction meeting was held with site contractors and the site owner on June 16, 2016. NYSDEC was not present at the meeting. The purpose of the meeting was to familiarize the contractors and the existing building tenants with the logistics of the project and the locations for the installation of the below-ground and above-ground components of the SVE system.

4.2.3 General Site Controls

The Site is currently an active lumberyard. This includes a site building (showroom and warehouse) and associated parking lot and exterior storage areas. The property is secured with a locking chain link fence that surrounds the property. During excavation, soils were inspected for visual and olfactory evidence of impact and field screened with a PID. Soils from within the former cesspools that were classified as hazardous were placed directly into a lined roll-off container suitable for transportation. Soils from around the former cesspools that were classified as non-hazardous were enveloped in polysheeting and tarps and stockpiled onsite in order to be loaded into trucks for disposal.

4.2.4 Nuisance controls

- No odor or dust control measures were necessary during remedial activities.
- No complaints from tenants or other bystanders were received during the duration of work.

4.2.5 CAMP results

CAMP monitoring was performed at the Site from February 20, 2015 to February 26, 2015 during excavation activities. Particulate and volatile organic monitoring was performed in thirty-minute intervals throughout the duration of work. No action levels were exceeded, and therefore, no response actions were taken.

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

4.2.6 Best Management Practices

In 2017 a telemetry unit was installed on the SVE system. This telemetry unit allows the User to remotely monitor the SVE System in real time and determine if the system is operating or off. Site visits have been substantially reduced since the installation of the telemetry unit and system operation time has increased.

4.2.7 Reporting

CA RICH field staff, under the supervision of the remedial engineer, documented all remedial activities and prepared Monthly Progress Reports. Daily Progress Reports were not required by the NYSDEC. Monthly Progress Reports were submitted to the NYSDEC Project Manager by the tenth day of the month following the previous reporting period. Monthly Progress Reports began in January 2013 and are still being submitted.

All monthly reports are included in electronic format in Appendix E. The digital photo log is included in electronic format in Appendix F.

4.3 CONTAMINATED MATERIALS REMOVAL

On February 20, 2015, an excavator with a hammer attachment was mobilized to the site to open the pavement and expose the covers to the two buried cesspools. The removed pavement and cover soil was placed aside. A high-vacuum excavator or "guzzler" was then used to remove the material from the cesspools. The material within the cesspools was placed from the guzzler directly into a poly-lined roll-off container suitable for transportation. Once the contents of the cesspools were removed, arrangements were made to transport the 19 tons of materials (considered hazardous) to EnGlobe Corporation of Montreal-East, Canada.

On February 21, 2015, an excavator was mobilized to the property. The excavator removed the soil from around the cesspools. Once the soil from above and around the cesspools was removed, the excavator was used to grab and lift the emptied pools out of the ground and place them on bermed plastic sheeting. The concrete structures were then placed aside to be sampled to determine if they could be disposed of as Construction & Demolition (C&D) debris. The results from the concrete structures indicated that they were

classified as nonhazardous. However, based on the limited space available onsite, the 5.65 tons of the concrete structures were removed as hazardous and transported to Envirosafe Services of Ohio, Inc. of Oregon, Ohio.

From February 23rd to the 26th 2015, the excavator was used to load the non-hazardous stockpiled soil onto trucks for transport to the Conestoga Landfill in Morgantown, Pennsylvania. A total of 326.52 tons of soil was transported under nonhazardous soil manifests to the approved facility.

A figure of the location of the former cesspools is shown in Figure 2.

4.3.1 Waste Characterization Sampling

Prior to undertaking the interim measures, the materials both inside and outside of the cesspools were characterized for selecting an appropriate disposal facility. On January 28, 2015, a backhoe was used to advance test pits to the impacted soil. Soil samples were collected from the excavated soils utilizing a pre-cleaned steel sampling trowel and placed into laboratory issued bottles. Composite samples were collected from both test pits for Semi-Volatile Organic Compounds (SVOCs), TCLP metals, TAL metals, PCBs, ignitability, reactivity, and total pesticides. Discrete samples were collected from the excavated soils and placed into separate laboratory-issued bottles and analyzed for Volatile Organic Compounds (VOCs). The discrete grab samples were obtained from approximately eight feet below surface grade (approximate depth of the bottom of the structures). The composite samples were obtained from surface grade to eight feet below grade. Based on the waste characterization results, all of the materials inside the structures were considered hazardous, and the materials outside of the structures were considered nonhazardous.

The concrete structures (former cesspools) were then placed aside to be sampled to determine if they could be disposed of as Construction & Demolition (C&D) debris. The concrete structures were sampled for TCLP VOCs, total VOCs, TCLP SVOCs, TCLP PCBs, TCLP pesticides, TAL metals, ignitability, reactivity, and corrosivity. The results from the concrete structures indicated that they were classified as nonhazardous. However, based on the limited space available onsite, the 5.65 tons of the concrete structures were

removed as hazardous.

Table 1 shows the total quantities of each category of material removed from the site and the disposal locations. Manifests and bills of lading are included in electronic format in Appendix G.

4.4 Remedial performance/documentation sampling

The former cesspool excavation advanced until the soil no longer exhibited PID readings, odors and/or stains to the degree site conditions allowed (15 feet below surface grade). End-point soil samples were then collected from the bottom and sidewalls of the excavation at the following frequency:

Sidewalls	one sample every 20 linear feet
Bottom	one sample every 400 square feet (or 20 ft. x 20 ft. area)

Soil samples were analyzed for VOCs using EPA method 8260, pesticides using EPA method 8081 and for the metals cadmium, copper & mercury using SW6010/SW4771B.

The results of the chemical analysis of the eight end point soil samples indicate the following:

- VOCs - No VOCs were detected exceeding their Part 375 Commercial Use Soil Cleanup Objectives (SCOs) in EP-1 through EP-8.

- Pesticides – No pesticides were detected exceeding their Part 375 Commercial Use SCOs in EP-1 through EP-4, and EP-6. Aldrin was detected in EP-5, EP-7, and EP-8 exceeding its Commercial Use SCOs, but well below levels previously detected (within the area of excavation) as described in the Site Characterization Report. No other pesticides were detected exceeding their Part 375 Commercial Use SCOs at these locations.

- Metals – No metals were detected exceeding their Part 375 Commercial Use SCOs in EP-1 through EP-8.

Tables and a figure summarizing all end-point sampling are included in Tables 2 through 4 and Figure 7, respectively, and all exceedances of commercial SCOs are bolded and boxed.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in Appendix H, and associated raw data is provided electronically in Appendix I. As per the DUSR, acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed, and the data generated were of acceptable quality.

4.5 IMPORTED BACKFILL

After the collection of the end-point samples, arrangements were made for the excavation to be backfilled. On February 22, 2015, 200 yards of quarry sand and 120 yards of recycled concrete aggregate were imported to the site. The lower portion of the excavation was backfilled with clean imported quarry sand. The sand was placed in lifts of approximately two-foot thickness and compacted. The upper portion of the excavation was backfilled with recycled concrete aggregate from a DOT-approved facility and compacted to a grade consistent for finishing the pavement with surrounding area. Samples of the back fill material were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. A summary of the back fill sample results compared to the 6NYCRR Part 375 NYSDEC SCOs for unrestricted and commercial use are included on Tables 5 through 9. Test results of the backfill material were provided to the NYSDEC for approval before backfilling was performed.

Tables summarizing chemical analytical results for backfill, in comparison to allowable levels, are provided in Tables 5 through 9.

4.6 CONTAMINATION REMAINING AT THE SITE

Groundwater

Groundwater samples were collected from one temporary point (GW-1), four shallow permanent groundwater monitoring wells (MW-1 through MW-4), two shallow groundwater profile borings (SGB-1 through SGB-2) and five deep groundwater profile borings (DGB-1 through DGB-5). The samples were collected from depths ranging from 30 to 85 feet below ground surface to assess groundwater conditions. The Site Characterization and Remedial Investigation results indicate that contamination at the site exceeds the SCGs for VOCs, pesticides, inorganics, and per- and polyfluoroalkyl substances (PFAS).

Six VOCs were detected above SCGs at the site during the SC. One of the six contaminants was TCA, which is the main contaminant of concern for the site based on SC data prior to the IRMs. The Water Authority of Western Nassau County was contacted to obtain available data for the supply well, located just north of the site, to determine if TCA impacted the supply well. The supply well is screened from 398 to 464 feet below ground surface, which is significantly deeper than the samples collected during the SC and RI. The supply well installation log identified clay layers at 168 and 189 feet below ground surface, which limits the vertical migration of groundwater. Groundwater flow contours indicate groundwater flows to the southwest, which is away from the supply well. Supply well data from 2000 to 2021 was reviewed and the main site contaminant, TCA, was not detected within the raw water. Based on information obtained during the RI, site contamination is not impacting the supply well. Additionally, an air stripper is operational at this supply well to remove VOCs from the raw water.

The highest Dieldrin detection was at DGB-1, which was reevaluated during the RI by installing another temporary point (GW-1) immediately downgradient of DGB-1 and Dieldrin was not detected in sample GW-1. The next highest SC detection of dieldrin was at MW-1, which was resampled as part of the RI and determined to be non-detect. The final SC detection of dieldrin above groundwater criteria was in SGB-1 located in the parking lot near the site building. Dieldrin is limited to the central part of the site and immediately

down-gradient of the Site.

The RI results indicate that contaminant levels in the on-site monitoring wells and off-site temporary point exceeds the SCGs for inorganics and PFAS. The inorganic and PFAS compounds found in groundwater were also found in upgradient monitoring wells and are considered to represent site background conditions. Therefore, these contaminants found in groundwater are not considered site-specific contaminants of concern.

Soil

Soil samples were collected at the site during the SC and RI. Shallow soil samples were collected within two feet of the surface to assess direct human exposure if the building or parking lot was removed. Subsurface soil samples were collected from a depth of two to 15 feet to assess soil contamination impacts. IRMs were performed, which removed significant soil contamination at the abandoned sanitary system and the storm drains. The results for the remaining soils, after the IRMs, indicated that soils at the site exceed the unrestricted use SCO for volatile and semi volatile organics, pesticides, and inorganics. The exceedances of unrestricted use SCO were detected beneath the building and the asphalt parking lot. The results indicate that soils at the site exceed the commercial use SCO for semi-volatile organics, pesticides, and inorganics. The exceedances of commercial use SCO were detected beneath the asphalt parking lot.

Soil Vapor

The potential for soil vapor intrusion resulting from the presence of site related soil or groundwater contamination was evaluated by the sampling of soil vapor, sub-slab soil vapor under structures, and indoor air inside structures. Soil vapor was evaluated where buildings were not located. A full suite of samples was collected to evaluate whether soil vapor intrusion was occurring.

During the SC, sub-slab soil vapor and indoor air samples were collected at the site to evaluate vapor intrusion. Soil vapor samples were also collected outside the building footprint during the SC to evaluate site conditions. The SC results detected VOCs, primarily TCA, in the sub-slab soil vapor beneath the building and in the soil vapor at the site, which led to the construction of an SVE system. SC results also detected 1,1-

dichloroethane (DCA), chloroethane, PCE, and TCE in the soil vapor at lower concentrations than TCA. This assessment is supported by the data gathered during the operation of the SVE system, which as of date has removed over 75 pounds of TCA, 27 pounds of DCA, 31 pounds chloroethane, two pounds of PCE, two pounds of TCE, and 0.48 pounds of vinyl chloride.

Figure 8 summarizes the results of all soil samples remaining at the site after completion of the Remedial Action that exceed the unrestricted and commercial SCOs. Since contaminated soil 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/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of a minimum of asphalt pavement, and concrete building slabs. Figure 9 shows the location of each cover type built at the site. 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 D of the SMP.

4.8 OTHER ENGINEERING CONTROLS

Since remaining contaminated soil and soil vapor exists 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.

Site Cover

Exposure to remaining contamination at the site is prevented by a cover system placed over the site. This cover system is comprised of a minimum of asphalt pavement and concrete building slabs (the sidewalks are not part of the site as per the survey detailing site boundaries provided in Appendix A). Figure 9 presents the location of the cover

system and applicable demarcation layers. The Excavation Work Plan (EWP) provided in Appendix D of the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of the SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the site. Any disturbance of the site's cover system must be overseen by a Professional Engineer (PE) who is licensed and registered in New York State.

Procedures for monitoring, operating and maintaining the Site cover are provided in the Operation and Maintenance Plan in Section 4 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.

Soil Vapor Extraction System

The SVE will continue to operate to remove VOCs from the subsurface soils and soil vapor. VOCs will be 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 extracted from the SVE wells is then treated using a series of two carbon drums containing granular activated carbon and then discharged to the atmosphere. The SVE system consists of three two-inch diameter wells (SVE-1 through SVE-3) installed into the vadose zone and screened from five feet below the ground surface to a depth of approximately 15 feet, and three four-inch sub-slab extraction points (SSD-4 through SSD-6). The air extracted from the SVE wells is treated by passing the air stream through activated carbon drums, which removes the VOCs from the air prior to it being discharged to the atmosphere

When the SVE system no longer recovers significant contamination as defined in the SMP, the operation of the system will be evaluated for possible shutdown. This evaluation will assess if the system will be removed or transitioned to a sub-slab

depressurization system, which would be continually operated and maintained until long-term monitoring data indicates the system is no longer needed. The system will not be shut down without NYSDEC authorization.

Procedures for monitoring, operating and maintaining the SVE system are provided in the Operation and Maintenance Plan in Section 4 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.

4.9 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 use only.

The environmental easement for the site was executed by the Department on April 1, 2024, and filed with the Nassau County Clerk on May 17, 2024. The County Recording Identifier number for this filing is 2024-00030426. A copy of the easement and proof of filing is provided in Appendix C.

5.0 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

There were no deviations from the approved remedial design.

TABLES

Table 1a
Summary of Material Disposal for Non-Hazardous Soil
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date	Manifest #	Facility Destination	Weight (Tons)
02/23/15	02231	Conestoga Landfill in Morgantown, Pennsylvania	23.91
02/23/15	02232	Conestoga Landfill in Morgantown, Pennsylvania	23.20
02/23/15	02233	Conestoga Landfill in Morgantown, Pennsylvania	23.46
02/23/15	02234	Conestoga Landfill in Morgantown, Pennsylvania	23.99
02/23/15	02235	Conestoga Landfill in Morgantown, Pennsylvania	25.44
02/23/15	02236	Conestoga Landfill in Morgantown, Pennsylvania	22.01
02/24/15	02237	Conestoga Landfill in Morgantown, Pennsylvania	24.85
02/24/15	02238	Conestoga Landfill in Morgantown, Pennsylvania	24.13
02/24/15	02239	Conestoga Landfill in Morgantown, Pennsylvania	24.33
02/24/15	022310	Conestoga Landfill in Morgantown, Pennsylvania	25.61
02/25/15	58621	Conestoga Landfill in Morgantown, Pennsylvania	23.82
02/25/15	58622	Conestoga Landfill in Morgantown, Pennsylvania	24.19
02/26/15	022311	Conestoga Landfill in Morgantown, Pennsylvania	21.66
02/26/15	022314	Conestoga Landfill in Morgantown, Pennsylvania	15.92
			326.52

Table 1b
Summary of Material Disposal for Hazardous Soil and Concrete
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date	US Manifest #	Facility Destination	Weight (TN)
		Hazardous Soil	
03/13/15	014014213JJK	EnGlobe Corporation of Montreal-East, Canada	29.91
			29.91
		Hazardous Concrete	
03/19/15	014014248JJK	Envirosafe Services of Ohio, Inc. of Oregon, Ohio	5.95
			5.95

TABLE 2

Validated Analytical Results for Volatile Organic Compounds in the End-Point Soil Samples

Former Zoe Chemical

1801 Falmouth Avenue, New Hyde Park, New York

Sample ID	EP-1 (south west)	EP-2 (west)	EP-3 (north west)	EP-4 (bottom west)	EP-5 (east)	EP-6 (north east)	EP-7 (south east)	EP-8 (bottom east)	EP-X	Trip Blank	Field Blank	NYSDEC Part 375*	NYSDEC Part 375*
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous	Aqueous	Unrestricted SCOs	Commercial SCOs
Date Sampled	2/21/2015	2/21/2015	2/21/2015	2/21/2015	2/22/2015	2/22/2015	2/22/2015	2/22/2015	2/21/2015	2/21/2015	2/22/2015		
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L	ug/Kg	ug/Kg
Volatile Organics													
Acetone	**66 J+**	**130 J+**	**7,300 J+**	**340 J+**	**1,100 J+**	**320 J+**	**1,800 J+**	**1,300 J+**	**9,600 J+**	ND R	ND R	50	500,000
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	44,000
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND R	ND R	NVG	NVG
2-Butanone (MEK)	11 J+	22 J+	**2,000 J+**	**170 J+**	**480 J+**	**160 J+**	**510 J+**	**460 J+**	ND R	ND R	ND R	120	500,000
n-Butylbenzene	0.69 J-	ND	ND	180	450	ND	870	ND	ND	ND	ND	12,000	500,000
sec-Butylbenzene	0.79 J-	ND	ND	160	360	ND	760	ND	ND	ND	ND	11,000	500,000
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	NVG	NVG
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	760	22,000
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,100	500,000
Chloroethane	9.2 J-	20 J-	ND	81 J	ND	ND	420 J	500 J	ND	ND R	ND R	NVG	NVG
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	NVG
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	NVG	NVG
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	NVG	NVG
1,1-Dichloroethane	ND	1.4 J-	ND	180	ND	ND	ND	ND	ND	ND	ND	270	240,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	30,000
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	330	500,000
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250	500,000
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	190	500,000
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
p-Diethylbenzene	1.3 J-	ND	2,300 J	1,000	640 J	20 J	3,300	ND	630 J	ND	ND	NVG	NVG
1,4-Dioxane	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	100	130,000
Ethylbenzene	ND	0.86 J-	**1,400 J**	510	**1,100**	ND	**4,200**	ND	ND	ND	ND	1,000	390,000
Ethyl ether	ND	ND	ND	16 J	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
p-Ethyltoluene	1.2 J-	1.4 J-	6,800 J	2,200	1,300	ND	6,800	ND	ND	ND	ND	NVG	NVG
Freon 113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Isopropylbenzene	ND	ND	ND	200	460	ND	1,200	ND	ND	ND	ND	NVG	NVG
p-Isopropyltoluene	0.95 J-	ND	4,100	3,200	490	ND	8,400	ND	ND	ND	ND	NVG	NVG
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	930	500,000
4-Methyl-2-pentanone(MIBK)	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	ND R	NVG	NVG
Methylene chloride	ND	ND	ND	75 J	ND	ND	ND	ND	ND	ND	ND	50	500,000
Naphthalene	1.2 J-	4.6 J-	2,300 J	270 J	420 J	ND	1,800 J	ND	ND	ND	ND	12,000	500,000
n-Propylbenzene	2.5 J-	ND	1,800 J	660	1,500	ND	3,500	210 J	2,600 J+	ND	ND	3,900	500,000
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Tetrachloroethene	ND	ND	ND	130	ND	ND	ND	ND	ND	ND	ND	1,300	150,000
1,2,4,5-Tetramethylbenzene	1.6 J-	0.99 J-	740	360	800 J	22 J	2,000 J	93 J	1,400 J	ND	ND	NVG	NVG
Toluene	ND	0.90 J-	ND	430	ND	ND	**970**	ND	ND	ND	ND	700	500,000
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
1,1,1-Trichloroethane	8.5 J-	43 J-	ND	**820**	ND	ND	440 J	ND	ND	ND	ND	680	500,000
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Trichloroethene	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	470	200,000
Trichlorofluoromethane	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	NVG	NVG
1,2,4-Trimethylbenzene	11	3.5 J-	**9,300 J**	3,200	520 J	ND	**11,000**	ND	ND	ND	ND	3,600	190,000
1,3,5-Trimethylbenzene	0.76 J-	2.0 J-	3,300 J	1,100	380 J	ND	3,700	ND	ND	ND	ND	8,400	190,000
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	20	13,000
m,p-Xylene	ND	1.3 J-	**2,600 J**	**1,100**	**480 J**	ND	**4,600**	220 J	ND	ND	ND	260	500,000
o-Xylene	ND	1.4 J-	ND	**430**	ND	ND	**1,100 J**	ND	ND	ND	ND	260	500,000
Xylene (total)	ND	2.7 J-	**2,600 J**	**1,500**	**480 J**	ND	**5,700 J**	220 J	ND	ND	ND	260	500,000

Notes:

All concentrations are reported in micrograms per kilogram (µg/kg) or parts per billion.

ND=Indicates the compound was analyzed for but not detected.

All aqueous concentrations are reported in ug/L or ppb

J=Analyte detected below quantitation limits

NVG=No value given

EP-X is a duplicate of EP-4

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;*

Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

R = The data are unusable.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

TABLE 3

Validated Analytical Results for Pesticides in the End-Point Soil Samples

Former Zoe Chemical

1801 Falmouth Avenue, New Hyde Park, New York

Sample ID	EP-1 (south west)	EP-2 (west)	EP-3 (north west)	EP-4 (bottom west)	EP-5 (east)	EP-6 (north east)	EP-7 (south east)	EP-8 (bottom east)	EP-X	Field Blank	NYSDEC Part 375*	NYSDEC Part 375*
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous	Unrestricted SCOs	Commercial SCOs
Date Sampled	2/21/2015	2/21/2015	2/21/2015	2/21/2015	2/22/2015	2/22/2015	2/22/2015	2/22/2015	2/21/2015	2/22/2015		
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/kg	ug/kg
Pesticides												
Aldrin	ND	ND	ND	**47.5 J-**	**1,390 D**	**11.2**	**1,200 D**	**1,060 D**	**264 D**	ND	5	680
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	3,400
beta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	3,000
delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	500,000
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Chlordane	ND	ND	5,350	2,080	11,400 D	133	12,900 D	2,240	2,030	ND	NVG	NVG
cis-Chlordane	ND	26.4	**615**	**323 D**	**1,350 D**	8.83 J	**1,490 D**	**336 D**	**405 D**	ND	94	24,000
trans-Chlordane	ND	40.6	481	304 D	1,430 D	15.6 J	1,340 D	164	312 D	ND	NVG	NVG
Dieldrin	ND	ND	**465**	**329 D**	**664 JD**	ND	**988 D**	**271 D**	**258 D**	ND	5.0	1,400
4,4'-DDD	**7.02**	**39.6**	ND	ND	ND	**7.32**	ND	ND	ND	ND	3.3	92,000
4,4'-DDE	1.66 J	ND	ND	ND	ND	**4.51**	ND	ND	ND	ND	3.3	62,000
4,4'-DDT	ND	**65.2 J**	ND	ND	ND	ND	ND	ND	ND	ND	3.3	47,000
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	89,000
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	200,000
Endrin ketone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Endosulfan-I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	200,000
Endosulfan-II	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,400	200,000
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42	15,000
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NVG	NVG

Notes:

All concentrations are reported in micrograms per kilogram (μg/kg) or parts per billion.
ND=Indicates the compound was analyzed for but not detected.
All aqueous concentrations are reported in ug/L or ppb
J=Analyte detected below quantitation limits
NVG=No value given
D=Analyte concentration is from diluted analysis

EP-X is a duplicate of EP-4
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;*
Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives
Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Bold and boxed indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.
J- = The result is an estimated quantity, but the result may be biased low.

TABLE 4

Validated Analytical Results for Metals in the End-Point Soil Samples

Former Zoe Chemical

1801 Falmouth Avenue, New Hyde Park, New York

Sample ID	EP-1 (south west)	EP-2 (west)	EP-3 (north west)	EP-4 (bottom west)	EP-5 (east)	EP-6 (north east)	EP-7 (south east)	EP-8 (bottom east)	EP-X	Field Blank	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous		
Date Sampled	2/21/2015	2/21/2015	2/21/2015	2/21/2015	2/22/2015	2/22/2015	2/22/2015	2/22/2015	2/21/2015	2/22/2015		
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	ug/L	mg/Kg	mg/Kg
Metals												
Cadmium	ND	0.09 J	ND	ND	ND	0.10 J	ND	0.24 J	ND	ND	2.5	9.3
Copper	11	21	14	10	7.8	17	12	34	8.2	ND	50	270
Mercury	0.12	**0.29**	**0.27**	0.13	0.17	**0.26**	**0.37**	0.18 J+	0.08	ND	0.18	2.8

Notes:

All concentrations are reported in micrograms per kilogram (μg/kg) or parts per billion.

ND=Indicates the compound was analyzed for but not detected.

All aqueous concentrations are reported in ug/L or ppb

J=Analyte detected below quantitation limits

EP-X is a duplicate of EP-4

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6;*

Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

J+ = The result is an estimated quantity, but the result may be biased high.

Table 5

Analytical Results of Volatile Organic Compounds In Clean Fill Samples
Former Zoe Chemical Site
Clean Fill Location - Durante Brothers
31-40 123rd Street, Queens New York

Sample ID Matrix Date Sampled	CF-1A Soil 2/24/2015	CF-1B Soil 2/24/2015	CF-1C Soil 2/24/2015	CF-1D Soil 2/24/2015	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
VOCs via EPA Method 8260C						
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	6.2 BJ	11 BJ	ND	15 B	50	500,000
Benzene	ND	ND	ND	ND	60	44,000
Bromochloromethane	ND	ND	ND	ND	NVG	NVG
Bromodichloromethane	ND	ND	ND	ND	NVG	NVG
Bromoform	ND	ND	ND	ND	NVG	NVG
Bromomethane	ND	ND	ND	ND	NVG	NVG
2-Butanone (MEK)	ND	ND	ND	ND	120	500,000
Carbon disulfide	ND	ND	ND	ND	NVG	NVG
Carbon tetrachloride	ND	ND	ND	ND	760	22,000
Chlorobenzene	ND	ND	ND	ND	1,100	500,000
Chloroethane	ND	ND	ND	ND	NVG	NVG
Chloroform	ND	ND	ND	ND	370	NVG
Chloromethane	ND	ND	ND	ND	NVG	NVG
Cyclohexane	ND	ND	ND	ND	NVG	NVG
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	NVG	NVG
Dibromochloromethane	ND	ND	ND	ND	NVG	NVG
1,2-Dibromoethane	ND	ND	ND	ND	NVG	NVG
1,2-Dichlorobenzene	ND	ND	ND	ND	1,100	500,000
1,3-Dichlorobenzene	ND	ND	ND	ND	2,400	280,000
1,4-Dichlorobenzene	ND	ND	ND	ND	1,800	130,000
Dichlorodifluoromethane	ND	ND	ND	ND	NVG	NVG
1,1-Dichloroethane	ND	ND	ND	ND	270	240,000
1,2-Dichloroethane	ND	ND	ND	ND	20	30,000
1,1-Dichloroethene	ND	ND	ND	ND	330	500,000
cis-1,2-Dichloroethene	ND	ND	ND	ND	250	500,000
trans-1,2-Dichloroethene	ND	ND	ND	ND	190	500,000
1,2-Dichloropropane	ND	ND	ND	ND	NVG	NVG
cis-1,3-Dichloropropene	ND	ND	ND	ND	NVG	NVG
trans-1,3-Dichloropropene	ND	ND	ND	ND	NVG	NVG
p-Diethylbenzene	3.5 J	1.6 J	ND	2.3 J	NVG	NVG
1,4-Dioxane	ND	ND	ND	ND	100	130,000
Ethylbenzene	ND	ND	ND	ND	1,000	390,000
p-Ethyltoluene	5.9	1.9 J	ND	4.2 J	NVG	NVG
Freon 113	ND	ND	ND	ND	NVG	NVG
2-Hexanone	ND	ND	ND	ND	NVG	NVG
Isopropylbenzene	ND	ND	ND	ND	NVG	NVG
4-Isopropyltoluene	5.3 Jm	ND	ND	1.9 Jm	NVG	NVG
Methyl Acetate	ND	ND	ND	ND	NVG	NVG
Methylcyclohexane	ND	ND	ND	ND	NVG	NVG
Methyl Tert Butyl Ether	ND	ND	ND	ND	930	500,000
4-Methyl-2-pentanone(MIBK)	ND	ND	ND	ND	NVG	NVG
Methylene chloride	ND	ND	ND	ND	50	500,000
Naphthalene	1.7 J	11	ND	10	12,000	500,000
Styrene	ND	ND	ND	ND	NVG	NVG
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NVG	NVG
Tetrachloroethene	ND	ND	ND	ND	1,300	150,000
1,2,4,5-Tetramethylbenzene	5.6 Jm	2.9 Jm	ND	3.2 Jm	NVG	NVG
Toluene	ND	ND	ND	1.1 J	700	500,000
1,2,3-Trichlorobenzene	ND	ND	ND	ND	NVG	NVG
1,2,4-Trichlorobenzene	ND	ND	ND	ND	NVG	NVG
1,1,1-Trichloroethane	ND	ND	ND	ND	680	500,000
1,1,2-Trichloroethane	ND	ND	ND	ND	NVG	NVG
Trichloroethene	ND	ND	ND	ND	470	200,000
Trichlorofluoromethane	ND	ND	ND	ND	NVG	NVG
1,2,4-Trimethylbenzene	9.0 m	3.2 J	ND	6.5	3,600	190,000
1,3,5-Trimethylbenzene	3.3 J	ND	ND	2.2 J	8,400	190,000
Vinyl chloride	ND	ND	ND	ND	20	13,000
m,p-Xylene	ND	ND	ND	ND	260	500,000
o-Xylene	ND	ND	ND	1.1 J	260	500,000
Xylene (total)	ND	ND	ND	1.1 J	260	500,000

Notes:
All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
J - Analyte was detected below the limit of quanitiation.
ND - No Detection
NVG - No Value Given
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6*
Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives
B - Analye was detected in the associated method blank.

Table 6
Analytical Results of Semi-Volatile Organic Compounds In Clean Fill Samples
Former Zoe Chemical Site
Clean Fill Location - Durante Brothers
31-40 123rd Street, Queens New York

Sample ID Matrix Date Sampled	CF-1 (Comp) Soil 2/24/2015	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
SVOCs via EPA Method 8270			
Units	ug/kg	ug/kg	ug/kg
2-Chlorophenol	ND	NVG	NVG
4-Chloro-3-methyl phenol	ND	NVG	NVG
2,4-Dichlorophenol	ND	NVG	NVG
2,4-Dimethylphenol	ND	NVG	NVG
2,4-Dinitrophenol	ND	NVG	NVG
4,6-Dinitro-o-cresol	ND	NVG	NVG
2-Methylphenol	ND	NVG	NVG
3&4-Methylphenol	ND	NVG	NVG
2-Nitrophenol	ND	NVG	NVG
4-Nitrophenol	ND	NVG	NVG
Pentachlorophenol	ND	800	6,700
Phenol	ND	330	500,000
2,3,4,6-Tetrachlorophenol	ND	NVG	NVG
2,4,5-Trichlorophenol	ND	NVG	NVG
2,4,6-Trichlorophenol	ND	NVG	NVG
Acenaphthene	72 J	20,000	500,000
Acenaphthylene	34 J	100,000	500,000
Acetophenone	ND	NVG	NVG
Anthracene	180 Jm	100,000	500,000
Atrazine	ND	NVG	NVG
Benzaldehyde	ND	NVG	NVG
Benzo(a)anthracene	290 m	1,000	5,600
Benzo(a)pyrene	230	1,000	1,000
Benzo(b)fluoranthene	230 J	1,000	5,600
Benzo(g,h,i)perylene	140 J	100,000	500,000
Benzo(k)fluoranthene	210 Jm	800	56,000
4-Bromophenyl phenyl ether	ND	NVG	NVG
Butyl benzyl phthalate	250 J	NVG	NVG
1,1'-Biphenyl	ND	NVG	NVG
2-Chloronaphthalene	ND	NVG	NVG
4-Chloroaniline	ND	NVG	NVG
Carbazole	76 J	NVG	NVG
Caprolactam	ND	NVG	NVG
Chrysene	310	1,000	56,000
bis(2-Chloroethoxy)methane	ND	NVG	NVG
bis(2-Chloroethyl)ether	ND	NVG	NVG
bis(2-Chloroisopropyl)ether	ND	NVG	NVG
4-Chlorophenyl phenyl ether	ND	NVG	NVG
2,4-Dinitrotoluene	ND	NVG	NVG
2,6-Dinitrotoluene	ND	NVG	NVG
3,3'-Dichlorobenzidine	ND	NVG	NVG
Dibenzo(a,h)anthracene	ND	330	560
Dibenzofuran	80 J	NVG	NVG
Di-n-butyl phthalate	270 J	NVG	NVG
Di-n-octyl phthalate	280 J	NVG	NVG
Diethyl phthalate	ND	NVG	NVG
Dimethyl phthalate	ND	NVG	NVG
bis(2-Ethylhexyl)phthalate	260 J	NVG	NVG
Fluoranthene	670	100,000	500,000
Fluorene	110 J	30,000	500,000
Hexachlorobenzene	ND	NVG	NVG
Hexachlorobutadiene	ND	NVG	NVG
Hexachlorocyclopentadiene	ND	NVG	NVG
Hexachloroethane	ND	NVG	NVG
Indeno(1,2,3-cd)pyrene	160 J	500	5,600
Isophorone	ND	NVG	NVG
2-Methylnaphthalene	ND	NVG	NVG
2-Nitroaniline	ND	NVG	NVG
3-Nitroaniline	ND	NVG	NVG
4-Nitroaniline	ND	NVG	NVG
Naphthalene	200 J	12,000	500,000
Nitrobenzene	ND	NVG	NVG
N-Nitroso-di-n-propylamine	ND	NVG	NVG
N-Nitrosodiphenylamine	ND	NVG	NVG
Phenanthrene	640	100,000	500,000
Pyrene	570	100,000	500,000
1,2,4,5-Tetrachlorobenzene	ND	NVG	NVG

Notes:
All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
J - Analyte was detected below the limit of quanitiation.
ND - No Detection
NVG - No Value Given
Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Table 7
Analytical Results of Pesticides In Clean Fill Samples
Former Zoe Chemical Site
Clean Fill Location - Durante Brothers
31-40 123rd Street, Queens New York

Sample ID	CF-1 (Comp)	NYSDEC	NYSDEC
Matrix	Soil	Part 375*	Part 375*
Date Sampled	2/24/2015	Unrestricted SCOs	Commercial SCOs
Pesticides via EPA Method 8081			
Units	ug/kg	ug/kg	ug/kg
Aldrin	4.5 P	5	680
alpha-BHC	ND	20	3,400
beta-BHC	ND	36	3,000
delta-BHC	ND	40	500,000
gamma-BHC (Lindane)	ND	NVG	NVG
alpha-Chlordane	17	94	24,000
gamma-Chlordane	17 P	NVG	NVG
Dieldrin	**7.5**	5	1,400
4,4'-DDD	1.8 JP	3.3	92,000
4,4'-DDE	2.4 JP	3.3	62,000
4,4'-DDT	**6.3**	3.3	47,000
Endrin	ND	14	89,000
Endosulfan sulfate	ND	2,400	200,000
Endrin aldehyde	ND	NVG	NVG
Endrin ketone	ND	NVG	NVG
Endosulfan-I	ND	2,400	200,000
Endosulfan-II	ND	2,400	200,000
Heptachlor	ND	42	15,000
Heptachlor epoxide	ND	NVG	NVG
Hexachlorobenzene	3.0	NVG	NVG
Methoxychlor	ND	NVG	NVG
Toxaphene	ND	NVG	NVG

Notes:

All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.

J - Indicates an etimated value

ND - No Detection

NVG - No Value Given

**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6*

Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.

Table 8
Analytical Results of PCBs In Clean Fill Samples
Former Zoe Chemical Site
Clean Fill Location - Durante Brothers
31-40 123rd Street, Queens New York

Sample ID Matrix Date Sampled	CF-1 (Comp) Soil 2/24/2015	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
PCBs via EPA Method 8082			
Units	ug/kg	ug/kg	ug/kg
Aroclor 1016	ND	100	1,000
Aroclor 1221	ND	100	1,000
Aroclor 1232	ND	100	1,000
Aroclor 1242	ND	100	1,000
Aroclor 1248	ND	100	1,000
Aroclor 1254	ND	100	1,000
Aroclor 1260	ND	100	1,000
Aroclor 1268	ND	100	1,000
Aroclor 1262	ND	100	1,000

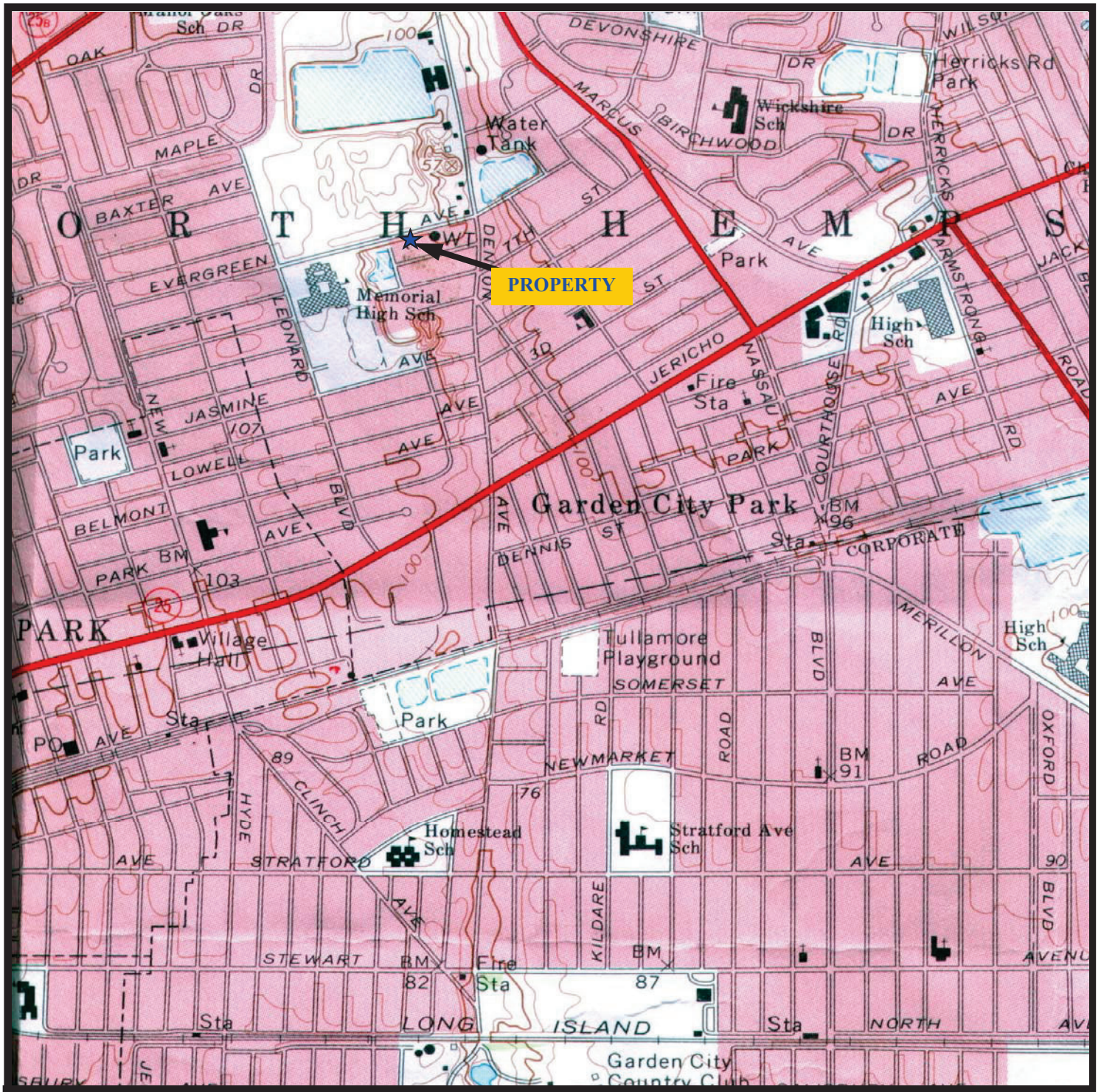
Notes:
All concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
ND - No Detection
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6*
Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

Table 9
Analytical Results of Metals In Clean Fill Samples
Former Zoe Chemical Site
Clean Fill Location - Durante Brothers
31-40 123rd Street, Queens New York

Sample ID	CF-1 (Comp)	NYSDEC	NYSDEC
Matrix	Soil	Part 375*	Part 375*
Date Sampled	2/24/2015	Unrestricted SCOs	Commercial SCOs
Metals via EPA Method SW6010/SW7471B			
Units	mg/kg	mg/kg	mg/kg
Aluminum	3,960	NVG	NVG
Antimony	ND	NVG	NVG
Arsenic	2.32	13	16
Barium	38.4	350	400
Beryllium	ND	7.2	590
Cadmium	ND	2.5	9.3
Calcium	7,850	NVG	NVG
Chromium	10.7	30	1,500
Cobalt	ND	NVG	NVG
Copper	14.2	50	270
Iron	9,770 D	NVG	NVG
Lead	25.8	63	1,000
Magnesium	3,260	NVG	NVG
Manganese	207	1,600	10,000
Mercury	0.0143	0.18	2.8
Nickel	12.5	30	310
Potassium	1,160	NVG	NVG
Selenium	ND	3.9	1,500
Silver	0.447	2	1,500
Sodium	160	NVG	NVG
Thallium	0.904	NVG	NVG
Vanadium	14.4	NVG	NVG
Zinc	38.8	109	10,000

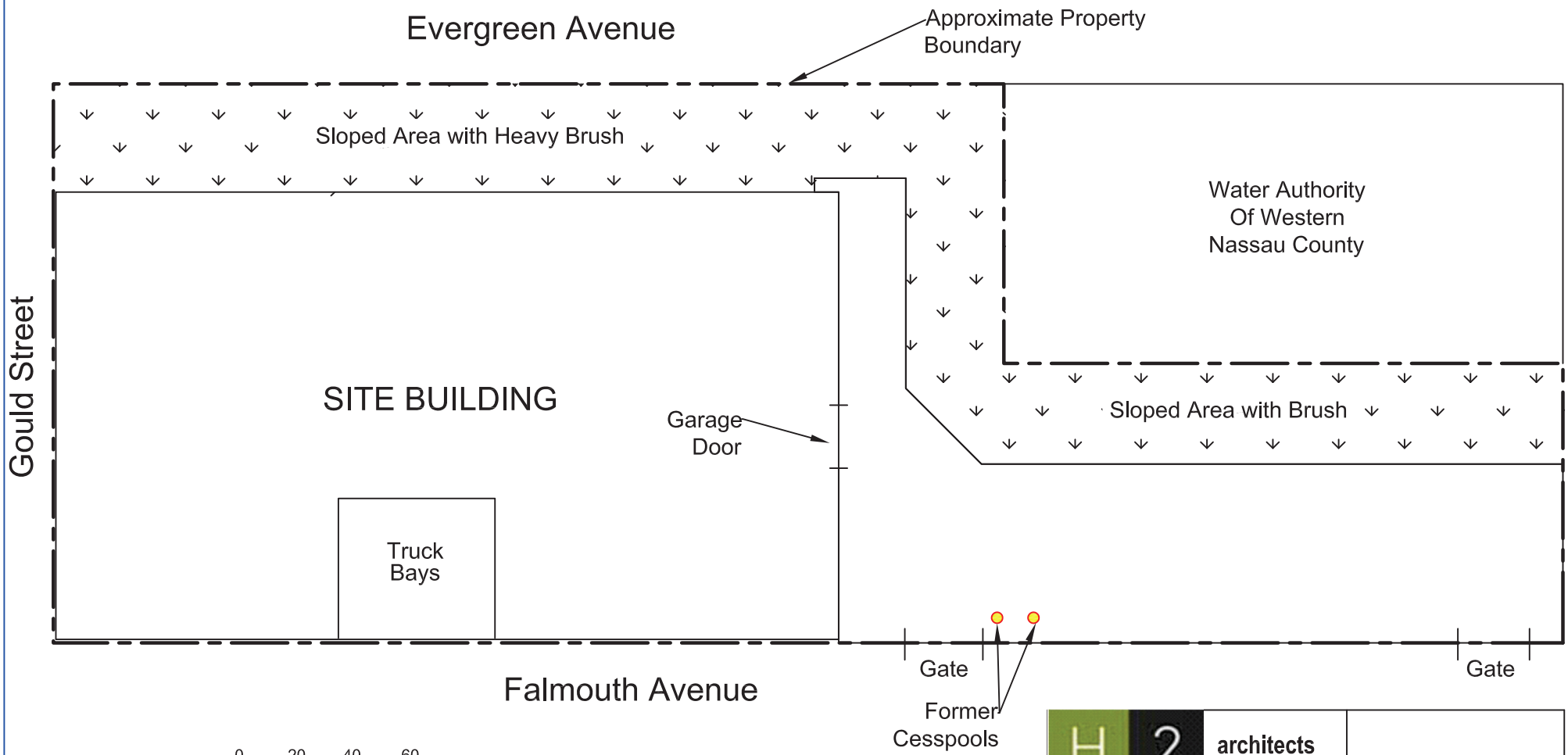
Notes:
All concentrations are reported in millagrams per kilogram (mg/kg) or parts per million.
NVG - No Value Given
**6 NYCRR Part 375; Subparts 375-1 to 375-4 & 375-6*
Table 375-6.8(a):Commercial and Unrestricted Use Soil Cleanup Objectives

FIGURES



H2M architects + engineers
290 Broad Hollow Road,
Suite 400E,
Melville, NY 11747

TITLE: **Site Location Map**	DATE: **10/21/2024**
	SCALE: **AS SHOWN**
FIGURE: **1**	**Former Zoe Chemical** **1801 Falmouth Avenue** **New Hyde Park, New York**
DRAWING:	DRAWN BY: **T.R.B.**
	APPR. BY: **J.E.P.**



H2M architects + engineers
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631.756.8000 ▪ www.h2m.com

FIGURE NUMBER:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DRAWING NUMBER:	DATE:	SCALE:
2	T.R.B.	J.E.P.	SEBD2401	2025-1	10/21/2024	As Shown

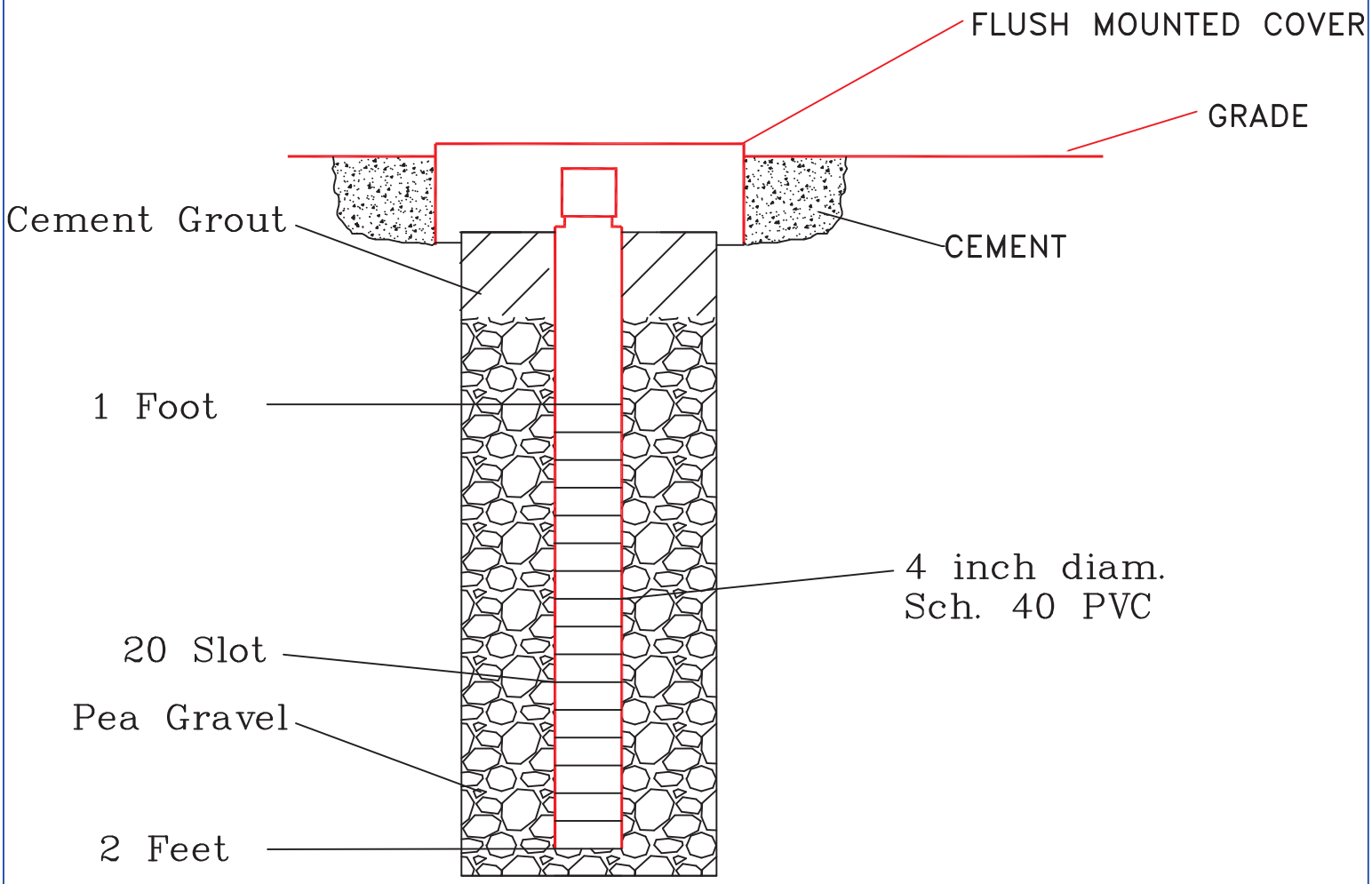
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Kevin M. Taylor
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Site Plan and Location of Former Cesspools

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

X:\SEBD (Seaboard Estates, Inc. LLC)\SEBD2401 Former Zoe Chemical\Drawings AutoCAD\2025-1



Legend

Pea Gravel

Cement Grout

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FIGURE NUMBER:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DRAWING NUMBER:	DATE:	SCALE:
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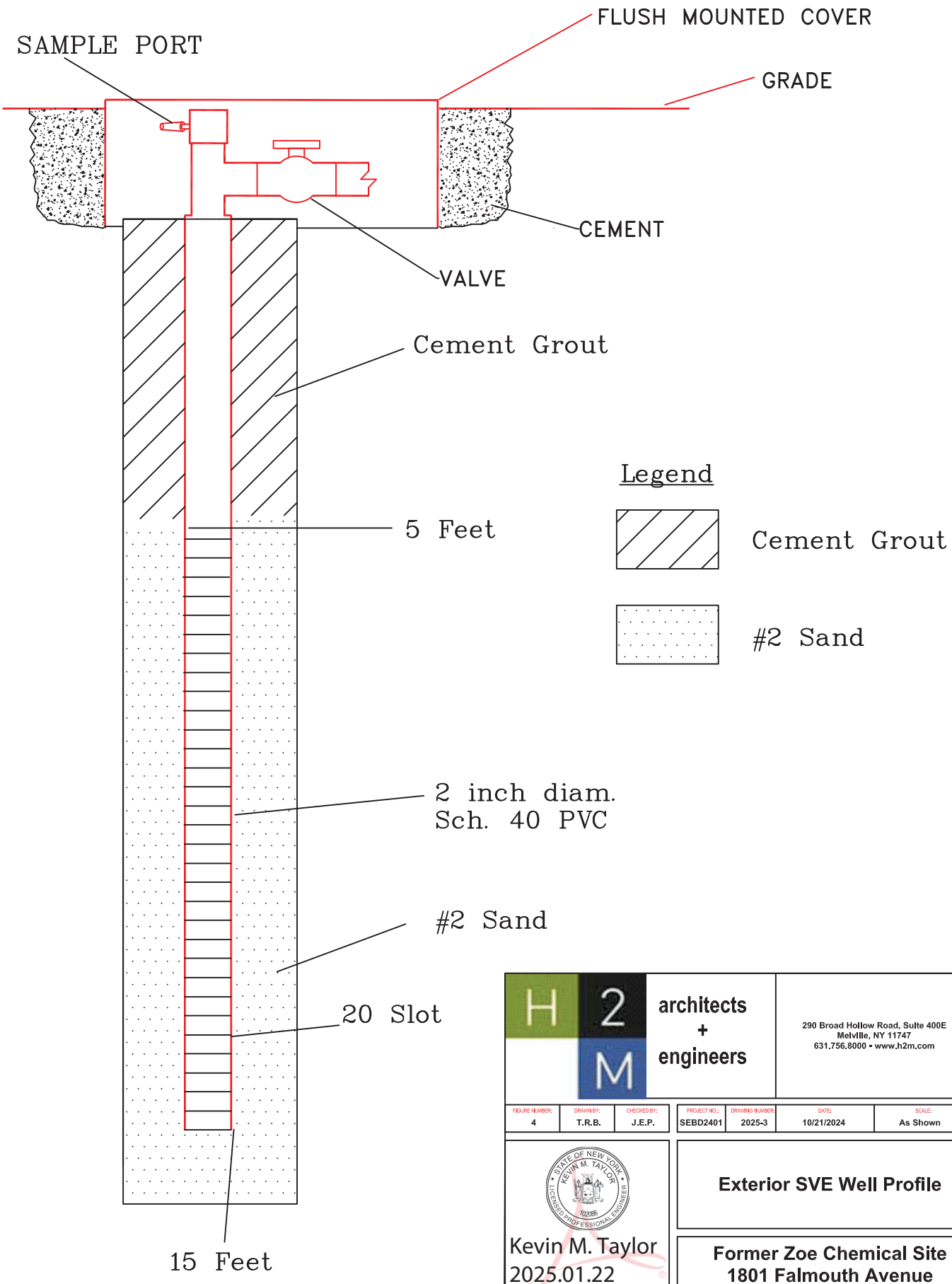
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Kevin M. Taylor
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12:39:31 -05'00'

Interior Sub-Slab Vent Profile

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

X:\SEBD (Seaboard Estates, Inc. LLC)\SEBD2401 Former Zoe Chemical\Drawings AutoCAD\2025-2



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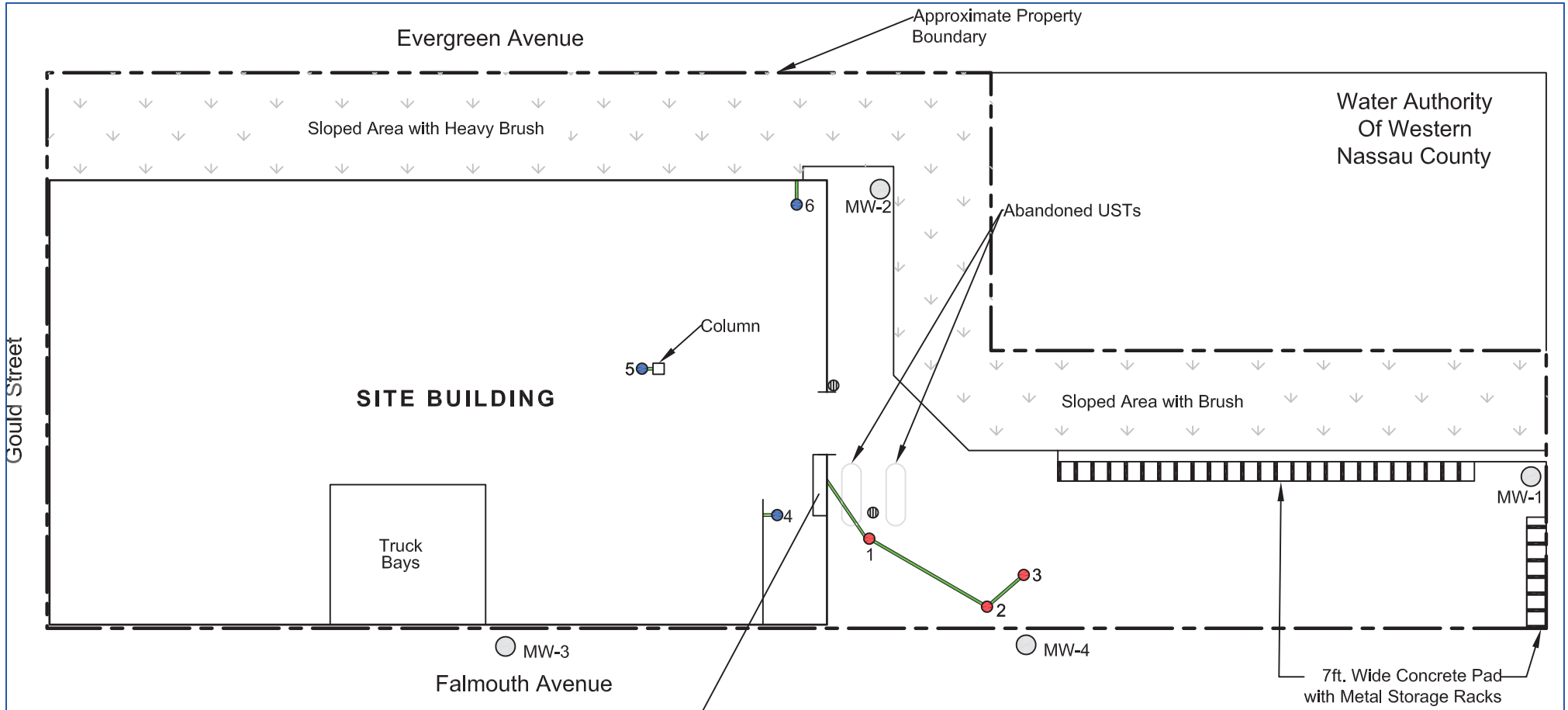
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Exterior SVE Well Profile

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

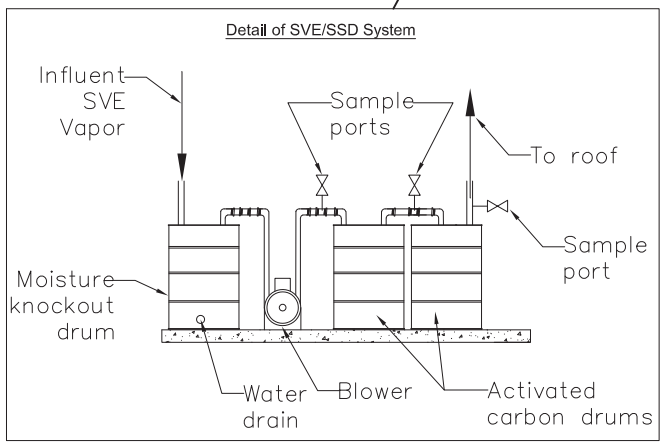
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LEGEND

- 2" Diameter Groundwater Monitoring Well
- SVE Well
- Sub-slab Vent
- System Trenching

0 20 40 60
Graphic Scale In Feet



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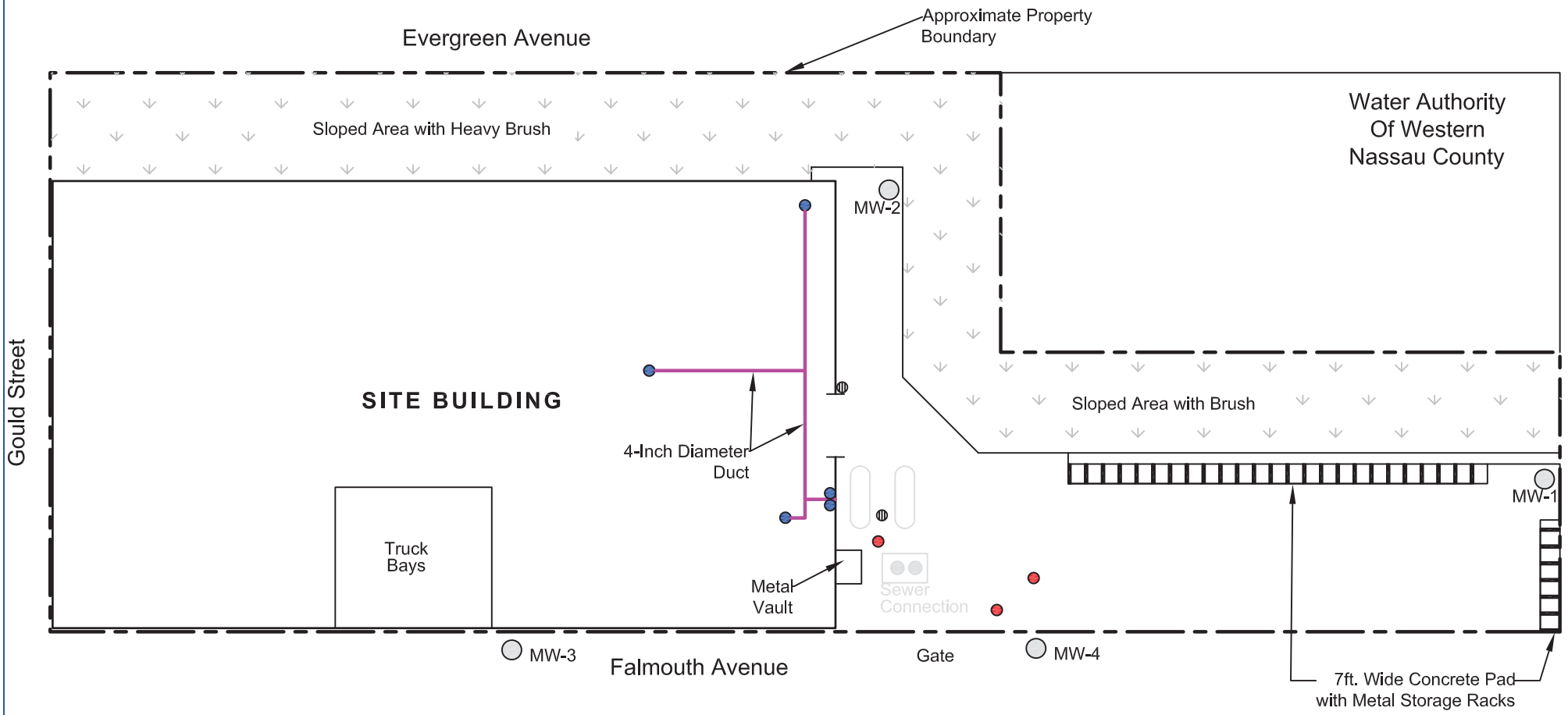
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Kevin M. Taylor
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SVE Well/Vent Locations

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

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LEGEND

- 2" Diameter Groundwater Monitoring Well
- SVE Well
- 4" Diameter Riser

N

0 20 40 60
Graphic Scale In Feet

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FIGURE NUMBER:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DRAWING NUMBER:	DATE:	SCALE:
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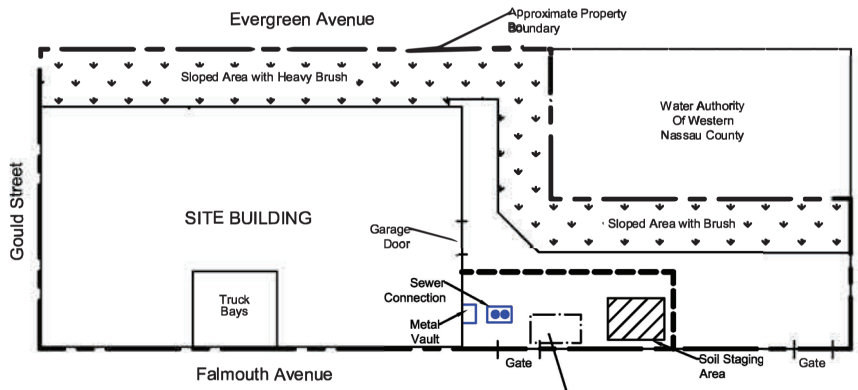
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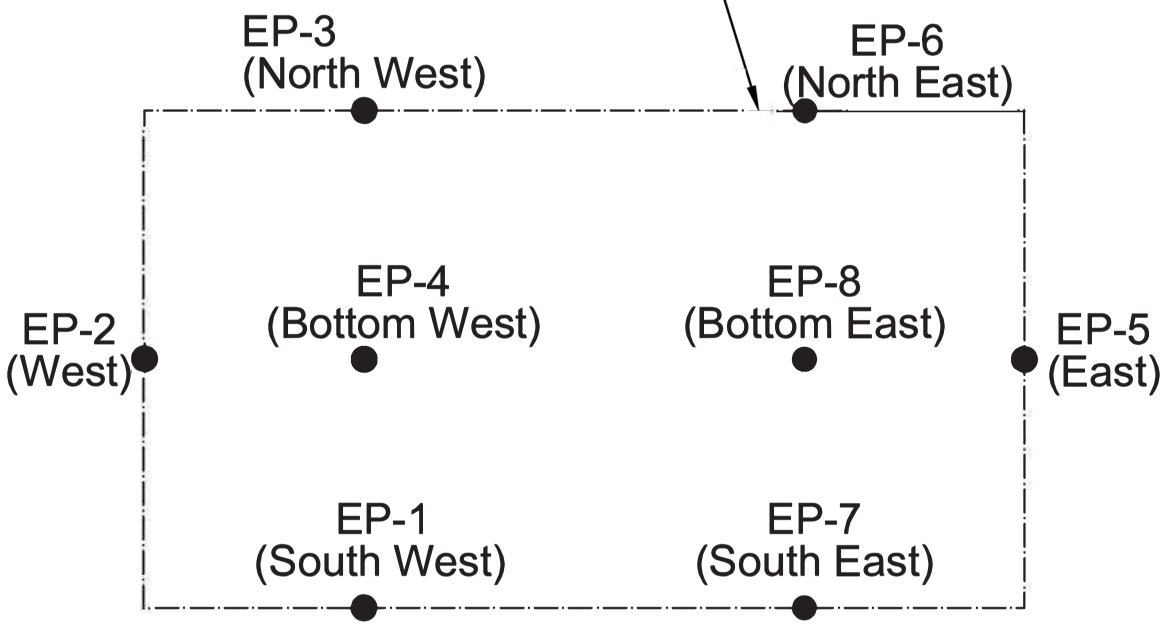
Kevin M. Taylor
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Venting System Layout on the Roof

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

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Close up view of Excavation

Final Excavation Depth - 15ft below surface grade

N

LEGEND

- Work Zone Boundary
- Soil Staging Area
- Anticipated Extent of Excavation
- Endpoint Sample

0 20 40 60
Graphic Scale In Feet

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FIGURE NUMBER:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DRAWING NUMBER:	DATE:	SCALE:
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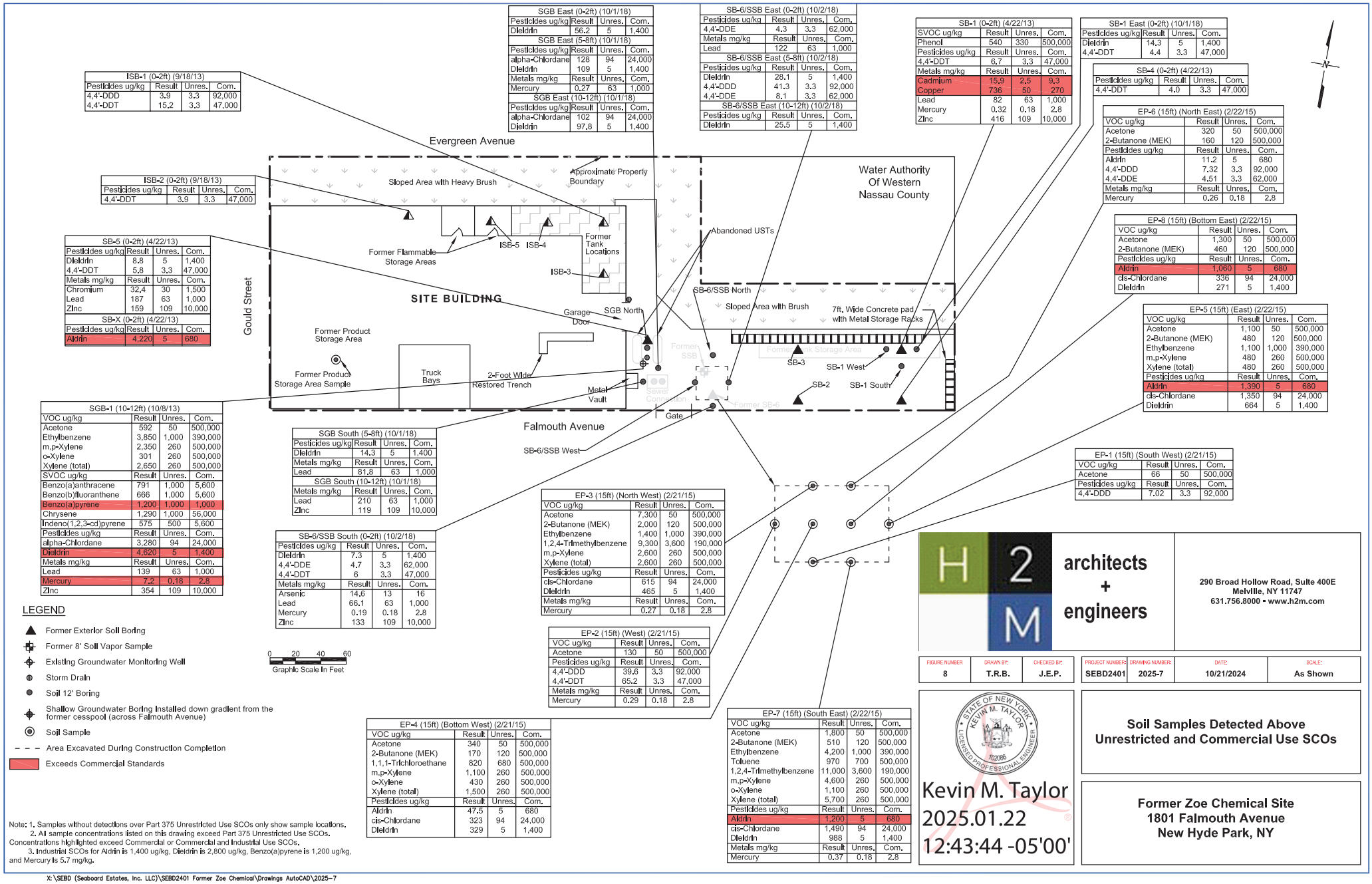
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Kevin M. Taylor
2025.01.23
16:16:46 -05'00'

Endpoint Sample Location Map

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

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ISB-1 (0-2ft) (9/18/13)			
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDD	3.9	3.3	92,000
4,4'-DDT	15.2	3.3	47,000

ISB-2 (0-2ft) (9/18/13)			
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDT	3.9	3.3	47,000

SB-5 (0-2ft) (4/22/13)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	8.8	5	1,400
4,4'-DDT	5.8	3.3	47,000
Metals mg/kg	Result	Unres.	Com.
Chromium	32.4	30	1,500
Lead	187	63	1,000
Zinc	159	109	10,000

SB-X (0-2ft) (4/22/13)			
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	4,220	5	680

SGB East (0-2ft) (10/1/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	56.2	5	1,400

SGB East (5-8ft) (10/1/18)			
Pesticides ug/kg	Result	Unres.	Com.
alpha-Chlordane	128	94	24,000
Dieldrin	109	5	1,400
Metals mg/kg	Result	Unres.	Com.
Mercury	0.27	63	1,000

SGB East (10-12ft) (10/1/18)			
Pesticides ug/kg	Result	Unres.	Com.
alpha-Chlordane	102	94	24,000
Dieldrin	97.8	5	1,400

SB-6/SSB East (0-2ft) (10/2/18)			
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDE	4.3	3.3	62,000
Metals mg/kg	Result	Unres.	Com.
Lead	122	63	1,000

SB-6/SSB East (5-8ft) (10/2/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	28.1	5	1,400
4,4'-DDD	41.3	3.3	92,000
4,4'-DDE	8.1	3.3	62,000

SB-6/SSB East (10-12ft) (10/2/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	25.5	5	1,400

SB-1 (0-2ft) (4/22/13)			
SVOC ug/kg	Result	Unres.	Com.
Phenol	540	330	500,000
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDT	6.7	3.3	47,000
Metals mg/kg	Result	Unres.	Com.
Cadmium	15.9	2.5	9.3
Copper	736	50	270
Lead	82	63	1,000
Mercury	0.32	0.18	2.8
Zinc	416	109	10,000

SB-1 East (0-2ft) (10/1/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	14.3	5	1,400
4,4'-DDT	4.4	3.3	47,000

SB-4 (0-2ft) (4/22/13)			
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDT	4.0	3.3	47,000

EP-6 (15ft) (North East) (2/22/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	320	50	500,000
2-Butanone (MEK)	160	120	500,000
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	11.2	5	680
4,4'-DDD	7.32	3.3	92,000
4,4'-DDE	4.51	3.3	62,000
Metals mg/kg	Result	Unres.	Com.
Mercury	0.26	0.18	2.8

EP-8 (15ft) (Bottom East) (2/22/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	1,300	50	500,000
2-Butanone (MEK)	460	120	500,000
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	1,060	5	680
cis-Chlordane	336	94	24,000
Dieldrin	271	5	1,400

EP-5 (15ft) (East) (2/22/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	1,100	50	500,000
2-Butanone (MEK)	480	120	500,000
Ethylbenzene	1,100	1,000	390,000
m,p-Xylene	480	260	500,000
Xylene (total)	480	260	500,000
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	1,390	5	680
cis-Chlordane	1,350	94	24,000
Dieldrin	664	5	1,400

SGB-1 (10-12ft) (10/8/13)			
VOC ug/kg	Result	Unres.	Com.
Acetone	592	50	500,000
Ethylbenzene	3,850	1,000	390,000
m,p-Xylene	2,350	260	500,000
o-Xylene	301	260	500,000
Xylene (total)	2,650	260	500,000
SVOC ug/kg	Result	Unres.	Com.
Benzo(a)anthracene	791	1,000	5,600
Benzo(b)fluoranthene	666	1,000	5,600
Benzo(a)pyrene	1,200	1,000	1,000
Chrysene	1,290	1,000	56,000
Indeno(1,2,3-cd)pyrene	575	500	5,600
Pesticides ug/kg	Result	Unres.	Com.
alpha-Chlordane	3,280	94	24,000
Dieldrin	4,620	5	1,400
Metals mg/kg	Result	Unres.	Com.
Lead	139	63	1,000
Mercury	7.2	0.18	2.8
Zinc	354	109	10,000

SGB South (5-8ft) (10/1/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	14.3	5	1,400
Metals mg/kg	Result	Unres.	Com.
Lead	81.8	63	1,000

SGB South (10-12ft) (10/1/18)			
Metals mg/kg	Result	Unres.	Com.
Lead	210	63	1,000
Zinc	119	109	10,000

SB-6/SSB South (0-2ft) (10/2/18)			
Pesticides ug/kg	Result	Unres.	Com.
Dieldrin	7.3	5	1,400
4,4'-DDE	4.7	3.3	62,000
4,4'-DDT	6	3.3	47,000
Metals mg/kg	Result	Unres.	Com.
Arsenic	14.6	13	16
Lead	66.1	63	1,000
Mercury	0.19	0.18	2.8
Zinc	133	109	10,000

EP-3 (15ft) (North West) (2/21/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	7,300	50	500,000
2-Butanone (MEK)	2,000	120	500,000
Ethylbenzene	1,400	1,000	390,000
1,2,4-Trimethylbenzene	9,300	3,600	190,000
m,p-Xylene	2,600	260	500,000
Xylene (total)	2,600	260	500,000
Pesticides ug/kg	Result	Unres.	Com.
cis-Chlordane	615	94	24,000
Dieldrin	465	5	1,400
Metals mg/kg	Result	Unres.	Com.
Mercury	0.27	0.18	2.8

EP-2 (15ft) (West) (2/21/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	130	50	500,000
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDD	39.6	3.3	92,000
4,4'-DDT	65.2	3.3	47,000
Metals mg/kg	Result	Unres.	Com.
Mercury	0.29	0.18	2.8

EP-1 (15ft) (South West) (2/21/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	66	50	500,000
Pesticides ug/kg	Result	Unres.	Com.
4,4'-DDD	7.02	3.3	92,000

EP-4 (15ft) (Bottom West) (2/21/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	340	50	500,000
2-Butanone (MEK)	170	120	500,000
1,1,1-Trichloroethane	820	680	500,000
m,p-Xylene	1,100	260	500,000
o-Xylene	430	260	500,000
Xylene (total)	1,500	260	500,000
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	47.5	5	680
cis-Chlordane	323	94	24,000
Dieldrin	329	5	1,400

EP-7 (15ft) (South East) (2/22/15)			
VOC ug/kg	Result	Unres.	Com.
Acetone	1,800	50	500,000
2-Butanone (MEK)	510	120	500,000
Ethylbenzene	4,200	1,000	390,000
Toluene	970	700	500,000
1,2,4-Trimethylbenzene	11,000	3,600	190,000
m,p-Xylene	4,600	260	500,000
o-Xylene	1,100	260	500,000
Xylene (total)	5,700	260	500,000
Pesticides ug/kg	Result	Unres.	Com.
Aldrin	1,200	5	680
cis-Chlordane	1,490	94	24,000
Dieldrin	988	5	1,400
Metals mg/kg	Result	Unres.	Com.
Mercury	0.37	0.18	2.8

LEGEND

- Former Exterior Soil Boring
- Former 8' Soil Vapor Sample
- Existing Groundwater Monitoring Well
- Storm Drain
- Soil 12' Boring
- Shallow Groundwater Boring Installed down gradient from the former cesspool (across Falmouth Avenue)
- Soil Sample
- Area Excavated During Construction Completion
- Exceeds Commercial Standards

Note: 1. Samples without detections over Part 375 Unrestricted Use SCOs only show sample locations.
2. All sample concentrations listed on this drawing exceed Part 375 Unrestricted Use SCOs. Concentrations highlighted exceed Commercial or Commercial and Industrial Use SCOs.
3. Industrial SCOs for Aldrin is 1,400 ug/kg, Dieldrin is 2,800 ug/kg, Benzo(a)pyrene is 1,200 ug/kg, and Mercury is 5.7 mg/kg.

X:\SEBD (Seaboard Estates, Inc. LLC)\SEBD2401 Former Zoe Chemical\Drawings AutoCAD\2025-7

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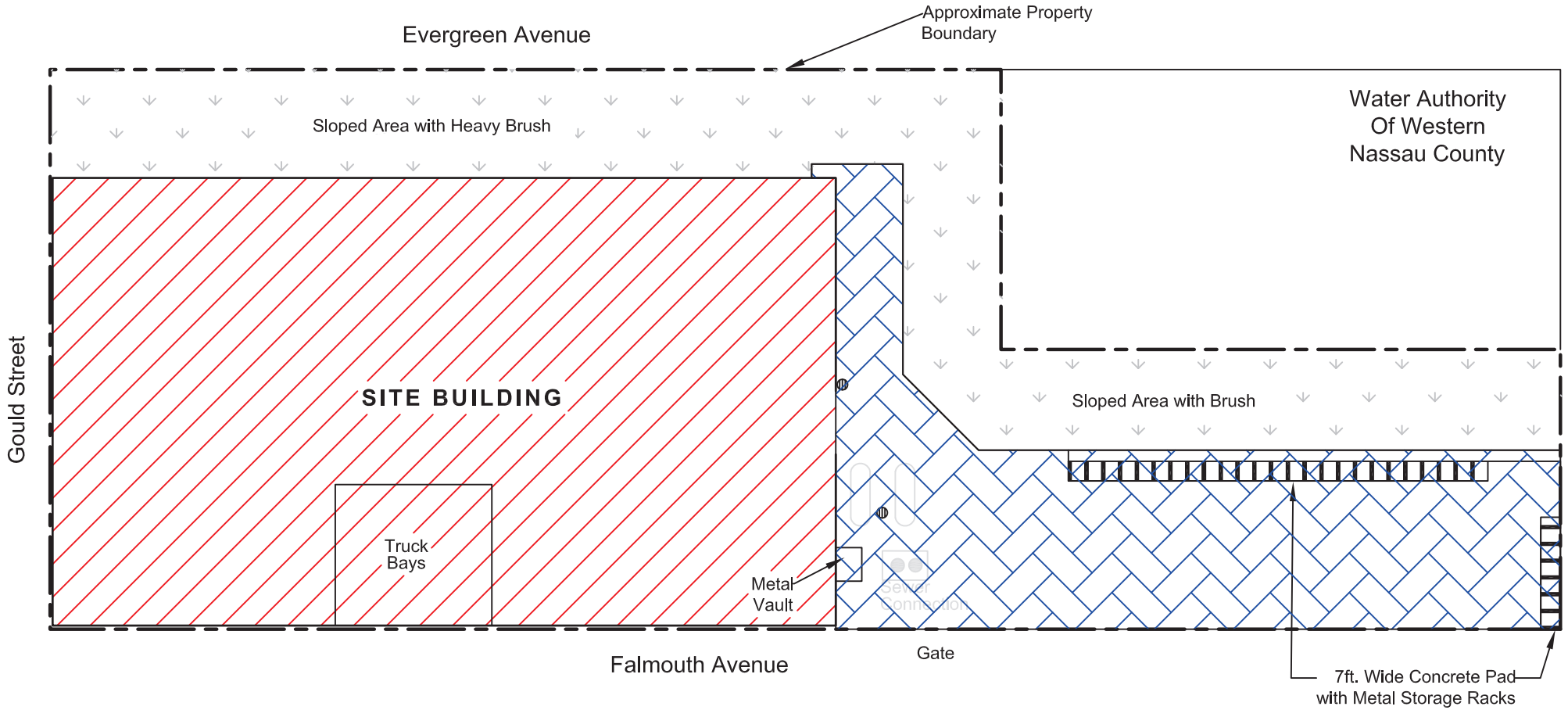
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Kevin M. Taylor
2025.01.22
12:43:44 -05'00'

Soil Samples Detected Above Unrestricted and Commercial Use SCOs

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY



LEGEND

- Concrete Building Slab
- Pavement

0 20 40 60

Graphic Scale In Feet

N

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FIGURE NUMBER:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DRAWING NUMBER:	DATE:	SCALE:
9	T.R.B.	J.E.P.	SEBD2401	2025-8	10/21/2024	As Shown

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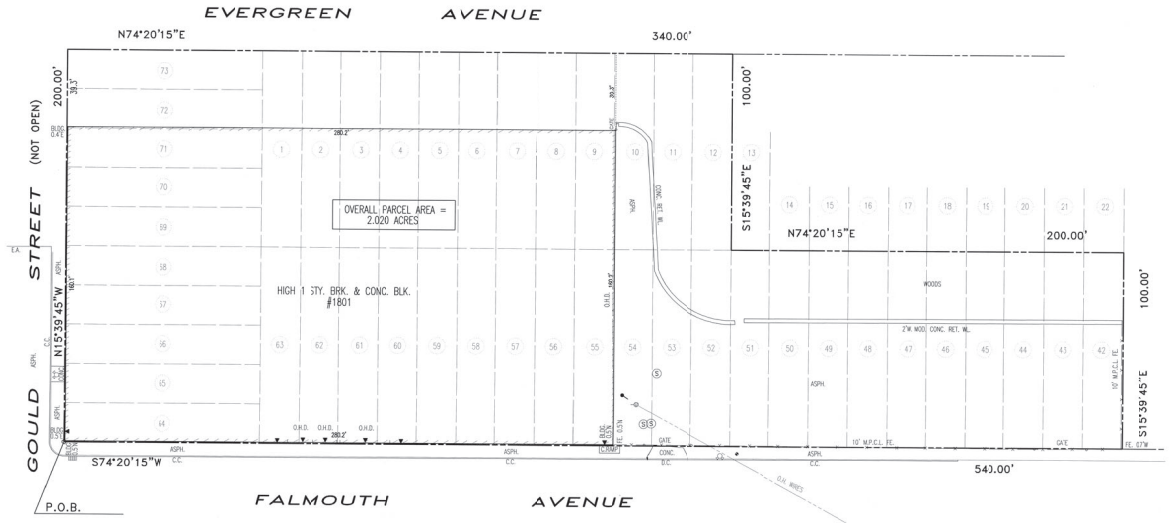
Location of Composite Cover System

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

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APPENDIX A

Survey Map





LEGEND

- SANITARY MANHOLE
- DRAINAGE MANHOLE
- WATER MANHOLE
- GAS MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- UNKNOWN MANHOLE
- FIRE DEPT. MANHOLE
- WATER VALVE
- GAS VALVE
- FIRE HYDRANT
- SIA. FIRE DEPT. CONN.
- TRAFFIC SIGNAL CONTROL BOX
- ELECTRIC BOX
- STEEL UTILITY POLE W/LITE & HIGH TENSION WIRES
- WOOD UTILITY POLE
- WOOD UTILITY POLE WITH LIGHT
- GUY WIRE
- DRAINAGE INLETS
- YARD DRAIN
- CURB INLET
- PROPERTY LINE SUBJECT
- TAX LOT INC.
- FILED MAP LOT LINE
- FILED MAP LOT NUMBER
- POST
- IRON PIPE
- MONUMENT FOUND
- REBAR REBAR FOUND
- TRAFFIC SIGN
- SIGN
- SEWER/DRAINAGE LINE
- ELECTRIC LINE OVERHEAD (UNLESS OTHER WISE NOTED. BUR ELEC.)
- GAS LINE
- WATER LINE
- DENOTES CHAIN LINK FENCE W/3 STRANDS BARB WIRE H/HT.
- TREE(CALIPER)
- DEPRESSED CURB
- CURB LINES
- C.C.(CONC. CURB)
- C.C.G(INTEGRAL CONC. CURB & GUTTER)
- STN. C. (STONE CURB)
- BL. STN. C. (BLUE STONE CURB)
- B.R.C. OR B.B.(BELGIUM BLK. CURB)
- F.C.C. (FLUSH CONC. CURB)
- A.C.(ASPH. CURB)
- PAINTED LINES (ROADWAY MARKINGS)
- (STOP LINE)
- DENOTES SPOT ELEVATION

SCALE 1"=30'

0FT 30FT 60FT 90FT

0M 9.14M 18.29M 27.43M

METERS

NOTES:
- UTILITIES SHOWN ARE PER FIELD OBSERVATIONS, PARTIAL MARKOUTS AND AVAILABLE RECORDS AND ARE NOT GUARANTEED.
- ELEVATIONS REFER NAVD88 DATUM
- COORDINATES REFER TO NAD83 (LIZONE)

LEGAL DESCRIPTION (OVERALL PARCEL) (ENVIRONMENTAL EASEMENT)
1801 FALMOUTH AVENUE
NEW HYDE PARK, NEW YORK 11042
NASSAU COUNTY TAX MAP DESIGNATION:
SECTION 8 BLOCK 189 LOTS 1-12 & 42-73 BOTH INCLUSIVE

All that certain plot, piece or parcel of land situate, lying and being in New Hyde Park, Town of North Hempstead, County of Nassau, State of New York, known and designated as lots 1 thru 12 incl. and lots 42 thru 73 inclusive in block 4 on a certain map entitled "Map of New Hyde Park Estates", situate at New Hyde Park, Nassau County, N.Y., dated June 24, 1926, made by Paul H. Ross, C.E. and surveyor, filed in the office of the Clerk of Nassau County as Map No. 615. New Map #682.

Said parcel being more particularly described as follows:

BEGINNING at a point at the intersection of the northerly line of Falmouth Avenue and the easterly line of Gould Street. Running thence from said point of BEGINNING the following courses;

Northerly along said easterly line of Gould Street,
North 15 degrees 39 minutes 45 seconds West, 200.00 feet to the southerly line of Evergreen Avenue. Thence easterly along said line,
North 74 degrees 20 minutes 15 seconds East, 340.00 feet to a point. Thence,
South 15 degrees 39 minutes 45 seconds East, 100.00 feet; thence,
North 74 degrees 20 minutes 15 seconds East, 200.00 feet; thence,
South 15 degrees 39 minutes 45 seconds East, 100.00 feet to a point on said northerly line of Falmouth Avenue. Thence westerly along said line,
South 74 degrees 20 minutes 15 seconds West, 540.00 feet to the point or place of BEGINNING.

Said parcel having an area of 2.020 acres more or less.

NOTE:

"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 NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@dec.ny.gov".

STATE OF NEW YORK
STEPHEN E. RAVN
LICENSED LAND SURVEYOR
19664

SURVEY OF
LOTS 1-12, 42-73 BLK. 4
MAP OF
"NEW HYDE PARK ESTATES"
SITUATE AT
NEW HYDE PARK
TOWN OF NORTH HEMPSTEAD
NASSAU COUNTY, NEW YORK

SCALE 1"=30' MAY 19, 2022

AMERICAN ENGINEERING & LAND SURVEYING P.C.
117 old country road - ste. 6
plainview, ny 11803
tel: 516.414.7500
fax: 516.812.2743
www.aelandsurveying.com
STEPHEN E. RAVN, P.E., L.S. (L.S. NO. 19664)

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JOB NO. 12964 REV. 9/24/22
OLD MAP NO. 615
NEW MAP NO. 682
N.C.T.M. SEC. 8 BLK. 189 LOTS 1-12, 42-73

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. © 2022

APPENDIX B

Electronic Copy of FER

APPENDIX C

Environmental Easement

60 2024 00030426

Nassau County
Maureen OConnell
County Clerk
Mineola, NY 11501

Instrument Number: 2024- 00030426
As
D06 - AGREEMENT

Recorded On: May 17, 2024
Parties: SEABOARD ESTATES INC
TO PEOPLE OF THE STATE OF NEW YORK
Recorded By: ALL STATE ABSTRACT

Billable Pages: 9
Num Of Pages: 11
Comment:

**** Examined and Charged as Follows: ****

D06 - AGREEMENT	90.00	Blocks - Deeds - $300	300.00	Tax Affidavit TP 584	5.00
Recording Charge:	**395.00**				

	Amount	Consideration Amount	RS#/CS#				
Tax-Transfer	0.00	0.00	RE 18556	Basic	0.00	Spec ASST	0.00
N. HEMPSTEAD				Local NY CITY	0.00	Spec ADDL SONYMA	0.00
				Additional MTA	0.00	Transfer	0.00
Tax Charge:	**0.00**						

Property Description:

Line	Section	Block	Lot	Unit	Town Name
1	8	189	1		N. HEMPSTEAD
2	8	189	2		N. HEMPSTEAD
3	8	189	3		N. HEMPSTEAD
4	8	189	4		N. HEMPSTEAD
5	8	189	5		N. HEMPSTEAD
6	8	189	6		N. HEMPSTEAD
7	8	189	7		N. HEMPSTEAD
8	8	189	8		N. HEMPSTEAD
9	8	189	9		N. HEMPSTEAD
10	8	189	10		N. HEMPSTEAD
11	8	189	11		N. HEMPSTEAD
12	8	189	12		N. HEMPSTEAD
13	8	189	42		N. HEMPSTEAD
14	8	189	43		N. HEMPSTEAD

**** THIS PAGE IS PART OF THE INSTRUMENT ****

I hereby certify that the within and foregoing was recorded in the Clerk's Office For: Nassau County, NY

File Information:

Document Number: 2024- 00030426
Receipt Number: 3187268
Recorded Date/Time: May 17, 2024 12:01:43P
Book-Vol/Pg: Bk-D Vl-14498 Pg-816
Cashier / Station: 0 LLS / NCCL-1HZ3182

Record and Return To:

MIRABELLA & FRANZI
400 GARDEN CITY PLAZA STE 405
GARDEN CITY NY 11530

NASSAU COUNTY STATE OF NEW YORK

Maureen O'Connell

County Clerk Maureen O'Connell

Property Description:

Line	Section	Block	Lot	Unit	Town Name
15	8	189	44		N. HEMPSTEAD
16	8	189	45		N. HEMPSTEAD
17	8	189	46		N. HEMPSTEAD
18	8	189	47		N. HEMPSTEAD
19	8	189	48		N. HEMPSTEAD
20	8	189	49		N. HEMPSTEAD
21	8	189	50		N. HEMPSTEAD
22	8	189	51		N. HEMPSTEAD
23	8	189	52		N. HEMPSTEAD
24	8	189	53		N. HEMPSTEAD
25	8	189	54		N. HEMPSTEAD
26	8	189	55		N. HEMPSTEAD
27	8	189	56		N. HEMPSTEAD
28	8	189	57		N. HEMPSTEAD
29	8	189	58		N. HEMPSTEAD
30	8	189	59		N. HEMPSTEAD
31	8	189	60		N. HEMPSTEAD
32	8	189	61		N. HEMPSTEAD
33	8	189	62		N. HEMPSTEAD
34	8	189	63		N. HEMPSTEAD
35	8	189	64		N. HEMPSTEAD
36	8	189	65		N. HEMPSTEAD
37	8	189	66		N. HEMPSTEAD
38	8	189	67		N. HEMPSTEAD
39	8	189	68		N. HEMPSTEAD
40	8	189	69		N. HEMPSTEAD
41	8	189	70		N. HEMPSTEAD
42	8	189	71		N. HEMPSTEAD
43	8	189	72		N. HEMPSTEAD
44	8	189	73		N. HEMPSTEAD

**** THIS PAGE IS PART OF THE INSTRUMENT ****

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Record and Return To:

MIRABELLA & FRANZI
400 GARDEN CITY PLAZA STE 405
GARDEN CITY NY 11530

NASSAU COUNTY · STATE OF NEW YORK

Maureen O'Connell

County Clerk Maureen O'Connell

Dr6 9

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

THIS INDENTURE made this 1st day of April, 2024, between Owner, Seaboard Estates Inc., having an office at 1 Jericho Turnpike, New Hyde Park, County of Nassau, State of New York (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

8 189 1-12 and 42-73

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 1801 Falmouth Avenue in the City of New Hyde Park, County of Nassau and State of New York, known and designated on the tax map of the County Clerk of Nassau as tax map parcel number: Section 8 Block 189 Lots 1-12 & 42-73, inclusive, being the same as that property conveyed to Grantor by deed dated November 18, 1960 and recorded in the Nassau County Clerk's Office in Liber and Page 6792/459. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 2.02 +/- acres, and is hereinafter more fully described in the Land Title Survey dated May 19, 2022 and last revised October 27, 2023 prepared by Stephen E. Ravin, 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 Order on Consent Index Number: W1-1165-12-06, 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 Nassau 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: 130211
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.

Seaboard Estates Inc.:

By: _____

Print Name: Laurance Gordon

Title: President Date: 2/13/24

Grantor's Acknowledgment

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

On the 13th day of February, in the year 2024, before me, the undersigned, personally appeared Laurance Gordon, 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

Colette E. Mason
Notary Public, State of New York
No: 01MA609833
Qualified in Nassau County
Commission Expires 9/8/2027

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: Andrew Guglielmi
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

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

On the 18th day of April, in the year 2024 before me, the undersigned, personally appeared Andrew O. Guglielmi, 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.

Cheryl A. Salem
Notary Public - State of New York

Cheryl A. Salem
Notary Public State of New York
Registration No. 01SA0002177
Qualified in Albany County
My Commission Expires March 3, 2027

Record + Return
Mirabella & Franzi
400 Garden City Plaza
Suite 405
Garden City NY 11530

SCHEDULE "A" PROPERTY DESCRIPTION

LEGAL DESCRIPTION (ENTIRE PARCEL) (ENVIRONMENTAL EASEMENT)
1801 FALMOUTH AVENUE
NEW HYDE PARK, NEW YORK 11042
NASSAU COUNTY TAX MAP DESIGNATION:
SECTION 8 BLOCK 189 LOTS 1-12 & 42-73 BOTH INCLUSIVE

All that certain plot, piece or parcel of land situate, lying and being in New Hyde Park, Town of New Hempstead, County of Nassau, State of New York, being known and designated as Section 8, Block 189, Lots 1-12, 42-73, being more particularly bounded and described as follows:

BEGINNING at a point at the intersection of the northerly line of Falmouth Avenue and the easterly line of Gould Street. Running thence from said point of BEGINNING the following courses;

Northerly along said easterly line of Gould Street,
North 15 degrees 39 minutes 45 seconds West, 200.00 feet to the southerly line of Evergreen Avenue. Thence easterly along said line,
North 74 degrees 20 minutes 15 seconds East, 340.00 feet to a point. Thence,
South 15 degrees 39 minutes 45 seconds East, 100.00 feet; thence,
North 74 degrees 20 minutes 15 seconds East, 200.00 feet; thence,
South 15 degrees 39 minutes 45 seconds East, 100.00 feet to a point on said northerly line of Falmouth Avenue. Thence westerly along said line,
South 74 degrees 20 minutes 15 seconds West, 540.00 feet to the point or place of BEGINNING.

Said parcel having an area of 2.020 acres more or less.

DEED DESCRIPTION (BOOK 6792 PAGE 459)

All that certain plot, piece or parcel of land situate, with the buildings and improvements thereon erected, situate, lying and being at or near New Hyde Park, Town of North Hempstead, County of Nassau, State of New York, shown and described on a certain map entitled "Map of New Hyde Park Estates", situated at New Hyde Park, Nassau County, N.Y., dated June 24, 1926, made by Paul H. Rosa, C.E. and surveyor, filed in the office of the Clerk of Nassau County as Map No. 615, more particularly described as follows:

Block 4, Lots Nos. 1 to 12, both inclusive, and Lots Nos. 42 to 73, both inclusive, New Map #682.

APPENDIX D

CAMP Monitoring Sheets

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/20/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	No excavation					
7:30	No excavation					
8:00	No excavation					
8:30	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
9:00	0.0/0.023	0.0/0.011	0.0/0.000	0.0/0.004		
9:30	0.0/0.001	0.0/0.036	0.0/0.000	0.0/0.000		
10:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
10:30	0.0/0.034	0.0/0.065	0.0/0.007	0.0/0.010		
11:00	0.0/0.022	0.0/0.029	0.0/0.005	0.0/0.009		
11:30	0.0/0.019	0.0/0.022	0.0/0.001	0.0/0.000		
12:00	0.0/0.001	0.0/0.021	0.0/0.000	0.0/0.007		
12:30	0.0/0.010	0.0/0.012	0.0/0.000	0.0/0.009		
13:00	0.0/0.033	0.0/0.022	0.0/0.005	0.0/0.012		
13:30	0.0/0.043	0.0/0.019	0.0/0.004	0.0/0.011		
14:00	0.0/0.029	0.0/0.032	0.0/0.001	0.0/0.011		
14:30	0.0/0.030	0.0/0.022	0.0/0.000	0.0/0.008		
15:00	0.0/0.000	0.0/0.021	0.0/0.000	0.0/0.004		
15:30	End of Work Day					
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/21/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	No excavation					
7:30	No excavation					
8:00	0.0/0.000	0.0/0.011	0.0/0.012	0.0/0.016		
8:30	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.009		
9:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
9:30	0.0/0.002	0.0/0.001	0.0/0.000	0.0/0.002		
10:00	0.0/0.013	0.0/0.011	0.0/0.025	0.0/0.001		
10:30	0.0/0.001	0.0/0.011	0.0/0.007	0.0/0.000		
11:00	0.0/0.000	0.0/0.004	0.0/0.005	0.0/0.012		
11:30	0.0/0.000	0.0/0.004	0.0/0.001	0.0/0.0022		
12:00	0.0/0.002	0.0/0.001	0.0/0.000	0.0/0.011		
12:30	0.0/0.000	0.0/0.009	0.0/0.000	0.0/0.003		
13:00	0.0/0.002	0.0/0.011	0.0/0.005	0.0/0.002		
13:30	0.0/0.004	0.0/0.013	0.0/0.004	0.0/0.000		
14:00	0.0/0.011	0.0/0.012	0.0/0.001	0.0/0.012		
14:30	0.0/0.007	0.0/0.008	0.0/0.000	0.0/0.007		
15:00	0.0/0.001	0.0/0.003	0.0/0.000	0.0/0.000		
15:30	End of Work Day					
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/22/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	No excavation					
7:30	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
8:00	0.0/0.000	0.0/0.009	0.0/0.006	0.0/0.012		
8:30	0.0/0.010	0.0/0.011	0.0/0.001	0.0/0.003		
9:00	0.0/0.012	0.0/0.021	0.0/0.000	0.0/0.006		
9:30	0.0/0.24	0.0/0.023	0.0/0.000	0.0/0.003		
10:00	0.0/0.001	0.0/0.018	0.0/0.012	0.0/0.018		
10:30	0.0/0.013	0.0/0.010	0.0/0.007	0.0/0.001		
11:00	0.0/0.009	0.0/0.017	0.0/0.000	0.0/0.007		
11:30	0.0/0.017	0.0/0.020	0.0/0.001	0.0/0.005		
12:00	0.0/0.025	0.0/0.022	0.0/0.000	0.0/0.003		
12:30	0.0/0.019	0.0/0.012	0.0/0.000	0.0/0.009		
13:00	0.0/0.013	0.0/0.018	0.0/0.000	0.0/0.001		
13:30	0.0/0.012	0.0/0.011	0.0/0.002	0.0/0.018		
14:00	0.0/0.011	0.0/0.010	0.0/0.000	0.0/0.000		
14:30	0.0/0.020	0.0/0.021	0.0/0.000	0.0/0.003		
15:00	0.0/0.003	0.0/0.003	0.0/0.000	0.0/0.001		
15:30	End of Work Day					
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/23/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	0.0/0.002	0.0/0.006	0.0/0.011	0.0/0.000		
7:30	0.0/0.004	0.0/0.001	0.0/0.008	0.0/0.006		
8:00	0.0/0.002	0.0/0.005	0.0/0.012	0.0/0.003		
8:30	0.0/0.009	0.0/0.010	0.0/0.004	0.0/0.000		
9:00	0.0/0.010	0.0/0.015	0.0/0.003	0.0/0.000		
9:30	0.0/0.011	0.0/0.017	0.0/0.000	0.0/0.001		
10:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
10:30	0.0/0.007	0.0/0.008	0.0/0.000	0.0/0.000		
11:00	0.0/0.005	0.0/0.006	0.0/0.000	0.0/0.011		
11:30	0.0/0.012	0.0/0.011	0.0/0.002	0.0/0.004		
12:00	0.0/0.022	0.0/0.025	0.0/0.006	0.0/0.002		
12:30	0.0/0.023	0.0/0.017	0.0/0.000	0.0/0.000		
13:00	0.0/0.014	0.0/0.016	0.0/0.002	0.0/0.000		
13:30	0.0/0.008	0.0/0.007	0.0/0.000	0.0/0.001		
14:00	0.0/0.009	0.0/0.010	0.0/0.000	0.0/0.000		
14:30	0.0/0.002	0.0/0.000	0.0/0.000	0.0/0.003		
15:00	0.0/0.001	0.0/0.002	0.0/0.000	0.0/0.000		
15:30	End of Work Day					
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/24/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
7:30	0.0/0.004	0.0/0.012	0.0/0.019	0.0/0.007		
8:00	0.0/0.002	0.0/0.011	0.0/0.011	0.0/0.007		
8:30	0.0/0.000	0.0/0.001	0.0/0.012	0.0/0.012		
9:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
9:30	0.0/0.036	0.0/0.008	0.0/0.009	0.0/0.017		
10:00	0.0/0.011	0.0/0.022	0.0/0.000	0.0/0.008		
10:30	0.0/0.001	0.0/0.000	0.0/0.033	0.0/0.018		
11:00	End of Work Day					
11:30						
12:00						
12:30						
13:00						
13:30						
14:00						
14:30						
15:00						
15:30						
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/25/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.045		
7:30	0.0/0.000	0.0/0.000	0.0/0.002	0.0/0.022		
8:00	0.0/0.000	0.0/0.000	0.0/0.006	0.0/0.032		
8:30	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
9:00	0.0/0.004	0.0/0.006	0.0/0.022	0.0/0.052		
9:30	No excavation or loading of trucks					
10:00	No excavation or loading of trucks					
10:30	No excavation or loading of trucks					
11:00	No excavation or loading of trucks					
11:30	No excavation or loading of trucks					
12:00	End of Work Day					
12:30						
13:00						
13:30						
14:00						
14:30						
15:00						
15:30						
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

Dust Monitoring
(micrograms/cubic meter)

Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Date: 2/26/15
Meter Reading: PID (ppm)/Dust Meter ug/cubic meter
Baseline: 0 ppm/0 ug/m^3

	LOCATION					
TIME	A	B	C	D	E	F
7:00	0.0/0.006	0.0/0.026	0.0/0.000	0.0/0.021		
7:30	0.0/0.011	0.0/0.003	0.0/0.004	0.0/0.019		
8:00	0.0/0.015	0.0/0.001	0.0/0.000	0.0/0.011		
8:30	0.0/0.031	0.0/0.022	0.0/0.000	0.0/0.039		
9:00	0.0/0.000	0.0/0.024	0.0/0.000	0.0/0.051		
9:30	0.0/0.000	0.0/0.000	0.0/0.000	0.0/0.000		
10:00	End of Work Day					
10:30						
11:00						
11:30						
12:00						
12:30						
13:00						
13:30						
14:00						
14:30						
15:00						
15:30						
16:00						
16:30						
17:00						

Locations:

A	Northern side of the Property
B	Eastern side of the Property
C	Southern side of the Property (Falmouth Avenue)
D	Western side of the Property

APPENDIX E

Monthly Progress Reports

architects + engineers
290 Broad Hollow Road, Ste 400E
Melville, NY 11747 | tel 631.756.8000

e-mail: JProscia@h2m.com

December 6, 2024

sankavi.sampath@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Sankavi Sampath

Re: **Monthly Progress Report – November 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Ms. Sampath:

In accordance with the above-referenced Agreement, H2M is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On November 7, 2024, the draft Final Engineering Report was submitted to NYSDEC.

The following will be performed this month:

- As per the approved Site Management Plan, Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2024.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

H2M architects + engineers

Jessica Proscia
Senior Project Scientist

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

email list

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Mark Sergott	mark.sergott@health.ny.gov
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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

architects + engineers
290 Broad Hollow Road, Ste 400E
Melville, NY 11747 | tel 631.756.8000

e-mail: JProscia@h2m.com

November 6, 2024

sankavi.sampath@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Sankavi Sampath

Re: **Monthly Progress Report – October 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Ms. Sampath:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- The Final Engineering Report was being prepared.

The following will be performed this month:

- As per the approved Site Management Plan, Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2024.
- The Final Engineering Report will be prepared and submitted to the NYSDEC in November 2024.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

H2M architects + engineers

Jessica Proscia
Senior Project Scientist

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

email list

Sankavi Sampath	sankavi.sampath@dec.ny.gov
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Mark Sergott	mark.sergott@health.ny.gov
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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

architects + engineers
290 Broad Hollow Road, Ste 400E
Melville, NY 11747 | tel 631.756.8000

e-mail: JProscia@h2m.com

October 3, 2024

sankavi.sampath@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Sankavi Sampath

Re: **Monthly Progress Report – September 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Ms. Sampath:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On September 13, 2024, the third quarter quarterly monitoring field assignment was performed.

The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2024.
- The Final Engineering Report will be prepared and submitted to the NYSDEC in November 2024.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

H2M architects + engineers

Jessica Proscia

Jessica Proscia
Senior Project Scientist

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

September 10, 2024

sankavi.sampath@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Sankavi Sampath

Re: **Monthly Progress Report – August 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Ms. Sampath:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On August 21, 2024, the Site Management Plan approval letter was provided from NYSDEC.

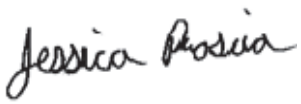
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2024.
- The Final Engineering Report will be prepared and submitted to the NYSDEC in November 2024.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

August 1, 2024

sankavi.sampath@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Sankavi Sampath

Re: **Monthly Progress Report – July 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Ms. Sampath:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On July 2, 2024, the Second Quarter 2024 Quarterly Monitoring Report was submitted.

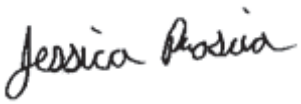
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2024.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

June 10, 2024

John.swartwout@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: John Swartwout

Re: **Monthly Progress Report – May 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Swartwout:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.

The following will be performed this month:

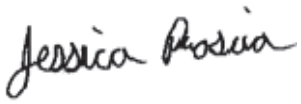
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2024.

- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

May 30, 2024

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- In April 2024, the First Quarter 2024 – Quarterly Monitoring Report was submitted to NYSDEC.

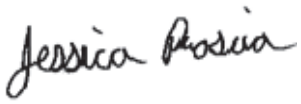
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2024.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

March 8, 2024

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- In February 2024, Ownership signed the Environmental Easement as well as the required tax form.

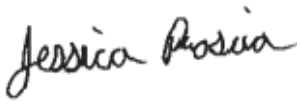
The following will be performed this month:

- The above discussed signed Environmental Easement and tax form will be submitted to the NYSDEC.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2024.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

February 7, 2024

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2024**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On November 6, 2023, The NYSDEC sent ownership and their counsel the draft Environmental Easement. Ownership and their counsel are reviewing the draft Environmental Easement together.
- On January 8, 2024, the Fourth Quarter 2023 Quarterly Monitoring Report was submitted to the NYSDEC.

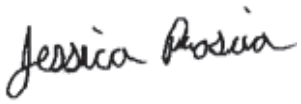
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2024.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

December 5, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On November 6, 2023, The NYSDEC sent ownership and their counsel the draft Environmental Easement. Ownership and their counsel are reviewing the draft Environmental Easement together.

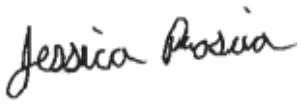
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2023.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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November 7, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On October 18, 2023, the Third Quarter 2023 Quarterly Monitoring Report was prepared and submitted to the NYSDEC.
- On October 31, 2023, NYSDEC accepted the revisions to the survey for the Environmental Easement.

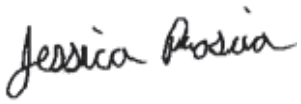
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2023.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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September 5, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- NYSDEC July 25, 2023, comments regarding the October 17, 2022, Environmental Easement submittal were reviewed by ownerships counsel.

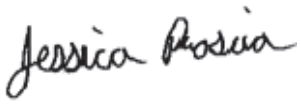
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2023.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

August 2, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Site visits for SVE System shutdowns were performed.
- On July 3, 2023, the Second Quarter 2023 Quarterly Monitoring Report was prepared and submitted to NYSDEC.
- On July 25, 2023, an email from NYSDEC attorney Brian Rashcow was provided to ownerships counsel detailing comments they have regarding the review of the October 17, 2022 Environmental Easement submittal.

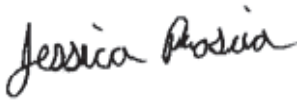
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2023.
- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).
- NYSDEC comments regarding the October 17, 2022, Environmental Easement submittal will be reviewed by ownerships counsel.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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June 21, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On May 31, 2023, the Final SMP was provided to the NYSDEC for their review. The Environmental Easement will be incorporated into the SMP once the NYSDEC has completed their review from the October 19, 2022, submittal.

- Site visits for SVE System shutdowns were performed.

The following will be performed this month:

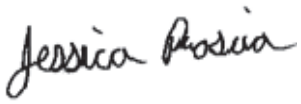
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2023.

- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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May 8, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On March 30, 2023, CA RICH received NYSDEC comments from the October 19, 2022, Site Management Plan and associated Environmental Easement submittal.
- On April 11, 2023, the First Quarter 2023 Quarterly Monitoring Report was prepared and submitted to NYSDEC.
- On April 19, 2023, a carbon change out was performed at the Property.
- On April 28, 2023, CA RICH requested a 30-day extension to the SMP resubmittal as ownership, ownership council, and CA RICH were still in the process of reviewing the March 30th comments from NYSDEC. This was approved by NYSDEC on April 28th.
- Site visits for SVE System shutdowns were performed.

The following will be performed this month:

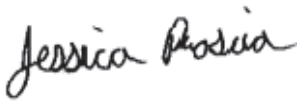
- The resubmittal of the SMP with the NYSDEC comments incorporated will be provided on May 30, 2023.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2023.

- After approval of the Site Management Plan, a Final Engineering Report will be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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March 8, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH is awaiting NYSDEC comments from the October 19, 2022, Site Management Plan and associated Environmental Easement submittal.

- Site visits for SVE System shutdowns were performed.

The following will be performed this month:

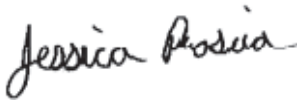
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2023.

- A Site Management Plan (with an Environmental Easement) was prepared and submitted to the NYSDEC on October 19, 2022. After approval of the Site Management Plan, a Final Engineering Report will also be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

February 9, 2023

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2023**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On December 20, 2022, CA RICH prepared and submitted the Fourth Quarter 2022 Quarterly Monitoring Report to the NYSDEC.

- CA RICH is awaiting NYSDEC comments from the October 19, 2022, Site Management Plan and associated Environmental Easement submittal.

The following will be performed this month:

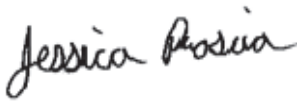
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2023.

- A Site Management Plan (with an Environmental Easement) was prepared and submitted to the NYSDEC on October 19, 2022. After approval of the Site Management Plan, a Final Engineering Report will also be prepared and submitted to the NYSDEC (the schedule for this deliverable will be provided at a later date based on the Site Management Plan review and approval).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH GEOLOGY SERVICES, D.P.C.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com
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e-mail: JProscia@carichinc.com

December 12, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On November 10, 2022, CA RICH and their contractor was onsite to perform electrical measurements to troubleshoot frequent SVE system shutdowns due to "thermal overload" alarms.

- On November 11, 2022, a "thermal overload auto-reset" switch was installed on the SVE system. This will restart the SVE system after a thermal overload alarm occurs.

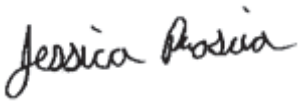
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

November 15, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 7, 2022, the Third Quarter 2022 Quarterly Monitoring Report was submitted to the NYSDEC and NYSDOH.
- On October 17, 2022, the Environmental Easement package was submitted to the NYSDEC for their review and preparation of the Environmental Easement.
- On October 19, 2022, the draft Site Management Plan was submitted to the NYSDEC for their review and comment.

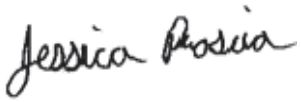
The following will be performed this month:

- Electrical measurements will be performed on the SVE system to troubleshoot frequent SVE system shutdowns due to “thermal overload” alarms.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

email list

Brian Jankauskas	brian.jankauskas@dec.ny.gov
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Laurence Gordon	fmrc@fmrcli.com
John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

September 12, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The Site Management Plan was in progress.

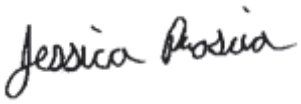
The following will be performed this month:

- On September 8, 2022, the Site Management Plan was submitted to Ownership and their Council for their review and comment.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed on September 16, 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
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ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

August 9, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 1, 2022, the Second Quarter 2022 Quarterly Monitoring Report was prepared and submitted to the NYSDEC.
- On July 18, 2022, NYSDEC provided an extension to the Environmental Easement and Site Management Plan. These documents are now due on October 10, 2022.
- On July 28, 2022, a new telemetry system was installed (Sensaphone Sentinel) for the SVE System.

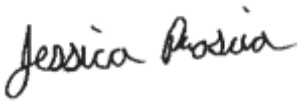
The following will be performed this month:

- The Site Management Plan is in progress.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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June 10, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On May 13, 2022, a conference call with CA RICH, the owner, and the owner's council took place to discuss the requirements for the Environmental Easement package and the associated Site Management Plan.
- On May 20, 2022, American Engineering & Land Surveying P.C. surveyed the property as per NYSDEC's survey requirements for Environmental Easements.

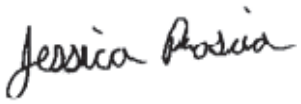
The following will be performed this month:

- On May 4, 2022, a letter from NYSDEC was received indicating that the Environmental Easement package must be compiled and provided in 90 days (August 2, 2022). A Site Management Plan will also be prepared and submitted during this time.
- The Sensaphone 400 telemetry unit installed in December 2017 will be replaced in June/July for an updated Sensaphone Sentinel. At this time the telemetry unit at the site is no longer supported by the updated technology.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
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e-mail: JProscia@carichinc.com

May 10, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On April 15, 2022, the First Quarter 2022 Quarterly Monitoring Report was submitted to NYSDEC.

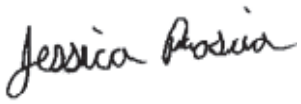
The following will be performed this month:

- On May 4, 2022, a letter from NYSDEC was received indicating that the Environmental Easement package must be compiled and provided in 90 days (August 2, 2022).
- A conference call with CA RICH, the owner, and the owner's council will take place on May 13 2022, to discuss the requirements for the Environmental Easement package and the associated Site Management Plan.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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Charlotte Bethoney

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March 15, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On February 9, 2022, the Proposed Remedial Action Plan (PRAP) and associated fact sheet were issued.
- On February 24, 2022, a public meeting was held to discuss the proposed remedy and accept public comments.

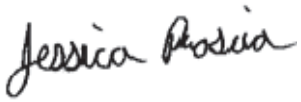
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

February 10, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2022**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On January 18, 2022, a hard copy of the Remedial Investigation/Feasibility Study was sent to the NYSDEC to be reviewed by the NYSDOH before it is submitted to the document repository for public comment.

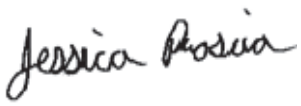
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2022.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

January 11, 2022

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – December 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On December 3, 2021, a raw and effluent sample was obtained from the system as part of the quarterly monitoring assignment.
- On December 20, 2021, the Fourth Quarter 2021 Quarterly Monitoring Report was prepared and submitted to the NYSDEC.

The following will be performed this month:

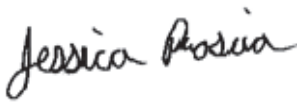
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2022.
- Remedial Investigation Feasibility Study was prepared for the Site and submitted to the NYSDEC and NYSDOH on July 24, 2019. CA RICH received the NYSDEC and NYSDOH comments on November 21, 2019. A conference call to discuss the comments was performed in January 2020. Based on the call, it was determined that an additional soil sample should be obtained in the "Former Storage Area" within the Site building. On March 31, 2020, a shallow soil sample was obtained from the "Former Storage Area" and analyzed for VOCs for Category B deliverables. The results were included in the Remedial Investigation Feasibility Study and the Report was resubmitted to the NYSDEC on October 6, 2020. CA RICH received NYSDEC comments on January 8, 2021. The

comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Senior Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

December 6, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On November 19, 2021, a programmable digital timer was installed on the SVE system to restart the modem several times a week to ensure that the modem has good service.

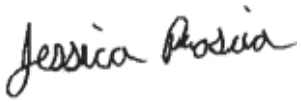
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2021.
- Remedial Investigation Feasibility Study was prepared for the Site and submitted to the NYSDEC and NYSDOH on July 24, 2019. CA RICH received the NYSDEC and NYSDOH comments on November 21, 2019. A conference call to discuss the comments was performed in January 2020. Based on the call, it was determined that an additional soil sample should be obtained in the "Former Storage Area" within the Site building. On March 31, 2020, a shallow soil sample was obtained from the "Former Storage Area" and analyzed for VOCs for Category B deliverables. The results were included in the Remedial Investigation Feasibility Study and the Report was resubmitted to the NYSDEC on October 6, 2020. CA RICH received NYSDEC comments on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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November 12, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.
- On October 8, 2021, CA RICH submitted the Third Quarter 2021 Quarterly Monitoring Report to the NYSDEC and NYSDOH.
- Troubleshooting was performed on the telemetry unit on the system to determine why it wasn't working efficiently during the last quarter.

The following will be performed this month:

- A daily timer will be installed on the system to restart the modem on a nightly basis in order to ensure that the modem has good service.
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2021.
- Remedial Investigation Feasibility Study was prepared for the Site and submitted to the NYSDEC and NYSDOH on July 24, 2019. CA RICH received the NYSDEC and NYSDOH comments on November 21, 2019. A conference call to discuss the comments was performed in January 2020. Based on the call, it was determined that an additional soil sample should be obtained in the "Former Storage Area" within the Site building. On March 31, 2020, a shallow soil sample was obtained from the "Former Storage Area" and

analyzed for VOCs for Category B deliverables. The results were included in the Remedial Investigation Feasibility Study and the Report was resubmitted to the NYSDEC on October 6, 2020. CA RICH received NYSDEC comments on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
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e-mail: JProscia@carichinc.com

September 10, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH performed Site visits for unexpected system shutdowns.

The following will be performed this month:

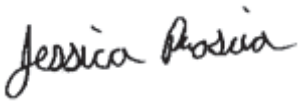
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021, approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2021.

- Remedial Investigation Feasibility Study was prepared for the Site and submitted to the NYSDEC and NYSDOH on July 24, 2019. CA RICH received the NYSDEC and NYSDOH comments on November 21, 2019. A conference call to discuss the comments was performed in January 2020. Based on the call, it was determined that an additional soil sample should be obtained in the "Former Storage Area" within the Site building. On March 31, 2020, a shallow soil sample was obtained from the "Former Storage Area" and analyzed for VOCs for Category B deliverables. The results were included in the Remedial Investigation Feasibility Study and the Report was resubmitted to the NYSDEC on October 6, 2020. CA RICH received NYSDEC comments on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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Charlotte Bethoney

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August 26, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 21, 2021, the Quarterly Monitoring Report was submitted.

The following will be performed this month:

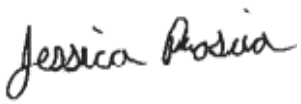
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021 approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2021.

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. NYSDEC comments were provided on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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e-mail: JProscia@carichinc.com

June 8, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. NYSDEC comments were provided on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

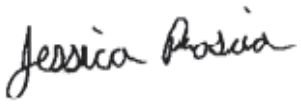
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021 approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

May 4, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 2, 2021, the Quarterly Monitoring Report was submitted to the NYSDEC.

The following will be performed this month:

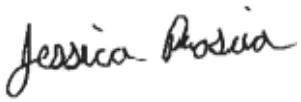
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021 approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2021.

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. NYSDEC comments were provided on January 8, 2021. The comments were incorporated, and the report was resubmitted to the NYSDEC and NYSDOH on March 16, 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

email list

Brian Jankauskas	brian.jankauskas@dec.ny.gov
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e-mail: JProscia@carichinc.com

March 9, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. NYSDEC comments were provided on January 8, 2021. The comments are currently being incorporated.

The following will be performed this month:

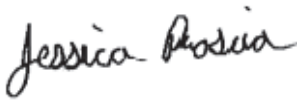
- As per the approved Construction Completion Report – Part B as well as the January 7, 2021 approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2021.

- The revised Remedial Investigation Feasibility Study Report will be provided to the NYSDEC.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

February 2, 2021

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2021**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. NYSDEC comments were provided on January 8, 2021. The comments are currently being reviewed and will be incorporated.

- On January 7, 2021, NYSDEC approved discontinuing the "Mid Air" sample from future quarterly monitoring assignments. The "Raw Air" and "Effluent Air" samples will still be obtained.

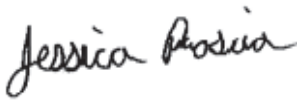
The following will be performed this month:

- As per the approved Construction Completion Report – Part B as well as the January 7, 2021 approval from the NYSDEC Project Manager, a raw and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2021.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

December 3, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC for their review and comment. Once the comments are received, they will be reviewed and incorporated.

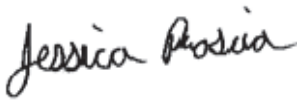
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2020.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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John Paul, Esq.	JPaul@bdlaw.com
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e-mail: JProscia@carichinc.com

November 3, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 6, 2020, CA RICH submitted the revised Remedial Investigation Feasibility Study Report to the NYSDEC.
- On October 6, 2020, the Quarterly Monitoring Report was submitted to the NYSDEC.
- On October 9, 2020, a carbon change out for the SVE System was performed.

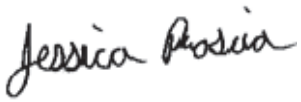
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2020.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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September 14, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- NYSDEC and NYSDOH comments were incorporated into the revised Remedial Investigation Feasibility Study Report.

The following will be performed this month:

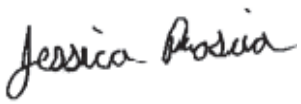
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2020.

- NYSDEC comments will be incorporated and submitted in September/October 2020. The PE will sign and stamp the document.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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August 12, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 7, 2020, the Quarterly Monitoring Report was provided to the NYSDEC.

The following will be performed this month:

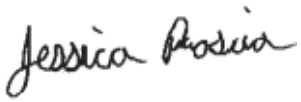
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2020.

- The sub-slab soil sample that was obtained from the 'former product storage area" will be included in the revised Remedial Investigation Feasibility Study Report. Additionally, NYSDEC comments will be incorporated and submitted in September/October 2020.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

June 4, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The sub-slab soil sample data and DUSR that was obtained from the 'former product storage area" was reviewed and was added to the Tables in the Remedial Investigation Feasibility Study Report.

The following will be performed this month:

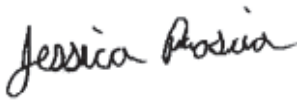
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2020.

- The sub-slab soil sample that was obtained from the 'former product storage area" will be included in the revised Remedial Investigation Feasibility Study Report. Additionally, NYSDEC comments will be incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

May 5, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 11, 2020, the DUSR for the soil sample that was obtained from below the "former storage area" was received.
- On April 13, 2020, the Quarterly Monitoring Report was submitted to the NYSDEC.

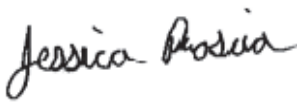
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2020.
- The sub-slab soil sample that was obtained from the 'former product storage area" will be included in the revised Remedial Investigation Feasibility Study Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

email list

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John Paul, Esq.	JPaul@bdlaw.com
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e-mail: JProscia@carichinc.com

March 2, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On February 7, 2020, the 1807 Gilford Avenue, Offsite Tenant Notification Letter was approved by NYSDEC and NYSDOH. The Letter was mailed out to the landlord certified mail.

The following will be performed this month:

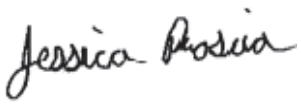
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2020.

- During the quarterly monitoring assignment, a sub-slab soil sample will be obtained from the 'former product storage area" room. This sample will be included in the revised Remedial Investigation Feasibility Study Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

February 4, 2020

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2020**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On January 6, 2020, the Fourth Quarter 2019 Quarterly Monitoring Report was provided to the NYSDEC and NYSDOH.
- On January 23, 2020, CA RICH, the Owner and his council, the NYSDEC and their council, and the NYSDOH had a conference call to discuss the Remedial Investigation Feasibility Report and the Offsite Tenant Notification Letters comments.
- On January 27, 2020, a carbon change out was performed on the two, 55-gallon carbon drums connected to the SVE system.
- On January 30, 2020, the 145 Denton Avenue, Offsite Tenant Notification Letter was approved by NYSDEC and NYSDOH. The Letter was mailed out to the landlord and their tenant certified mail.
- On January 30, 2020, the 1807 Gilford Avenue, Offsite Tenant Notification Letter was submitted to NYSDEC and NYSDOH for approval.

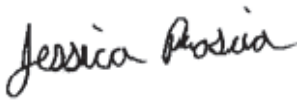
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2020.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
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Charlotte Bethoney

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John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

December 9, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On November 21, 2019, NYSDEC provided the NYSDOH edits to the Remedial Investigation/Feasibility Study as well as the Off-site Tenant Notification Letters for CA RICH to review and incorporate.

The following will be performed this month:

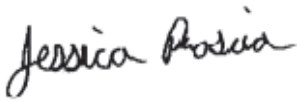
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2019.

- On December 11, 2019, a conference call between the NYSDEC, NYSDOH, the owner and CA RICH to discuss the Remedial Investigation/Feasibility Study and Tenant Notification Letters edits will be performed.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

November 11, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 9, 2019, a Quarterly Monitoring Report was provided to the NYSDEC and NYSDOH.
- On October 24, 2019, NYSDEC provided preliminary edits to the Remedial Investigation/Feasibility Study for CA RICH to review and incorporate.

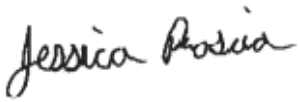
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2019.
- On July 24, 2019, a Remedial Investigation/Feasibility Study was submitted to the NYSDEC and NYSDOH. NYSDEC has provided CA RICH preliminary comments. Once CA RICH receives the NYSDOH comments, they will be incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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September 6, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Communications with the EPA for their proposed sampling at the Site.

The following will be performed this month:

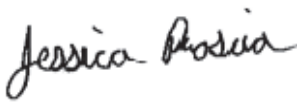
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2019.

- On July 24, 2019, a Remedial Investigation/Feasibility Study was submitted to the NYSDEC and NYSDOH. Once reviewed, their comments will be incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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August 13, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 24, 2019, a Remedial Investigation/Feasibility Study was submitted to the NYSDEC and NYSDOH.
- On July 26, 2019, a Quarterly Monitoring Report was submitted to the NYSDEC and NYSDOH.

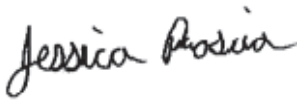
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2019.

'If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

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June 4, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On May 3, 2019, a Monthly Progress Report was submitted to the NYSDEC and NYSDOH.
- Preparation of the Remedial Investigation/Feasibility Study was performed.

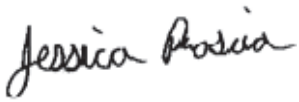
The following will be performed this month:

- Once a response is provided from the NYSDOH regarding CA RICH's comments to the Offsite Tenant Notification letters, the comments will be reviewed and incorporated.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2019.
- A Remedial Investigation / Feasibility Study Report will be finalized.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

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John Paul, Esq.
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Charlotte Bethoney

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May 3, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 1, 2019, CA RICH renewed its telemetry unit service for the SVE system.
- On April 23, 2019, the Quarterly Monitoring Report was submitted to the NYSDEC and NYSDOH.

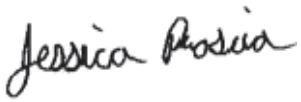
The following will be performed this month:

- Once a response is provided from the NYSDOH regarding CA RICH's comments to the Offsite Tenant Notification letters, the comments will be reviewed and incorporated.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2019.
- A Remedial Investigation / Feasibility Study Report is being be prepared.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
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March 13, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On February 14, 2019, as requested by the NYSDEC, "word' versions of the tenant notification letters were submitted to the NYSDEC and NYSDOH.
- On February 25, 2019, the NYSDOH Indoor Air Quality Questionnaire and Product Inventory for the two off-site tenant spaces were submitted to the NYSDEC and NYSDOH.

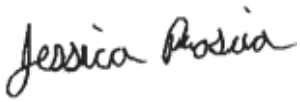
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2019.
- A Remedial Investigation / Feasibility Study Report is being be prepared.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
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e-mail: JProscia@carichinc.com

February 5, 2019

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2019**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On January 2, 2019, the Quarterly Monitoring Report was submitted.
- The soil, groundwater, and soil vapor analytical data was received and imported into tables and compared to NYSDEC and NYSDOH guidelines (see attached tables).
- The soil vapor data was reviewed by a qualified Data Validator and a Data Usability Summary Report was prepared on January 19, 2019. Based on this information, notification letters were prepared for the two off-site properties (145 Denton Avenue and 1807 Gilford Avenue) to provide and explain the sampling results (see attached letters for your review).

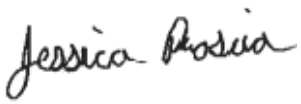
The following will be performed this month:

- A Remedial Investigation / Feasibility Study Report will be prepared.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2019.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

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Charlotte Bethoney	charlotte.bethoney@health.ny.gov

Table 1
Validated Volatile Organic Compounds in Groundwater
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Sample ID	MW-1	MW-2	MW-3	MW-4	GW-1	MW-XX	FIELD BLANK	TRIP BLANK	*TOGS
Sample Date	10/2/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/2/2018	10/1/2018	
Volatile Organic Compounds - 8260 C									
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Acetone	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	NVG
Benzene	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	1
Bromochloromethane	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	5
Bromodichloromethane	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	NVG
Bromoform	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	NVG
Bromomethane	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	5
2-Butanone (MEK)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	NVG
Carbon disulfide	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	60
Carbon tetrachloride	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	5
Chlorobenzene	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	5
Chloroethane	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	5
Chloroform	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	7
Chloromethane	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	5
Cyclohexane	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	NVG
1,2-Dibromo-3-chloropropane	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	0.04
Dibromochloromethane	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	NVG
1,2-Dibromoethane	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	0.0006
1,2-Dichlorobenzene	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	3
1,3-Dichlorobenzene	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	3
1,4-Dichlorobenzene	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	3
Dichlorodifluoromethane	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	5
1,1-Dichloroethane	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	5
1,2-Dichloroethane	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	0.6
1,1-Dichloroethene	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	5
cis-1,2-Dichloroethene	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	5
trans-1,2-Dichloroethene	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	5
1,2-Dichloropropane	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	1
cis-1,3-Dichloropropene	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	NVG
trans-1,3-Dichloropropene	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	NVG
Ethylbenzene	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	5
Freon 113	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	5
2-Hexanone	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	NVG
Isopropylbenzene	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	5
Methyl Acetate	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	NVG
Methylcyclohexane	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	NVG
Methyl Tert Butyl Ether	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	10
4-Methyl-2-pentanone(MIBK)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	NVG
Methylene chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	5
Styrene	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	5
1,1,2,2-Tetrachloroethane	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	5
Tetrachloroethene	ND (0.90)	ND (0.90)	0.90 J	3.9	3.4	1.3	ND (0.90)	ND (0.90)	5
Toluene	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	5
1,2,3-Trichlorobenzene	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	5
1,2,4-Trichlorobenzene	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	5
1,1,1-Trichloroethane	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	5
1,1,2-Trichloroethane	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	1
Trichloroethene	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	5
Trichlorofluoromethane	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	5
Vinyl chloride	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	2
m,p-Xylene	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	NVG
o-Xylene	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	5
Xylene (total)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	5

Notes

ug/L - micrograms per liter or parts per billion
ND - The compound was analyzed for but not detected
NVG- No Value Given
J - Estimated Value
MW-XX is a duplicate of MW-2

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998
UJ - The analyte was not detected above the reported sample quantitation limit.

Table 2
Validated Semi-Volatile Organic Compounds in Groundwater
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Sample ID	MW-1	MW-2	MW-3	MW-4	GW-1	MW-XX	FIELD BLANK	*TOGS
Sample Date	10/2/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/2/2018	
Semi-Volatile Organic Compounds - 8270								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
2-Chlorophenol	ND (0.78)	ND (0.81)	ND (0.82)	ND (0.91)	ND (0.89)	ND (0.81)	ND (0.82)	NVG
4-Chloro-3-methyl phenol	ND (0.85)	ND (0.88)	ND (0.89)	ND (0.99)	ND (0.97)	ND (0.88)	ND (0.89)	NVG
2,4-Dichlorophenol	ND (1.2)	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.3)	5
2,4-Dimethylphenol	ND (2.3)	ND (2.4)	ND (2.4)	ND (2.7)	ND (2.7)	ND (2.4)	ND (2.4)	50
2,4-Dinitrophenol	ND (1.5)	ND (1.5)	ND (1.6)	ND (1.7)	ND (1.7)	ND (1.5)	ND (1.6)	10
4,6-Dinitro-o-cresol	ND (1.2) UJ	ND (1.3)	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.3)	ND (1.3) UJ	NVG
2-Methylphenol	ND (0.85)	ND (0.88)	ND (0.89)	ND (0.99)	ND (0.97)	ND (0.88)	ND (0.89)	1
3&4-Methylphenol	ND (0.84)	ND (0.87)	ND (0.88)	ND (0.98)	ND (0.96)	ND (0.87)	ND (0.88)	1
2-Nitrophenol	ND (0.91)	ND (0.95)	ND (0.96)	ND (1.1)	ND (1.0)	ND (0.95)	ND (0.96)	NVG
4-Nitrophenol	ND (1.1) UJ	ND (1.1) UJ	ND (1.2) UJ	ND (1.3) UJ	ND (1.3) UJ	ND (1.1) UJ	ND (1.2) UJ	NVG
Pentachlorophenol	ND (1.3)	ND (1.4)	ND (1.4)	ND (1.5)	ND (1.5)	ND (1.4)	ND (1.4)	1
Phenol	ND (0.37)	ND (0.39)	ND (0.39)	ND (0.44)	ND (0.43)	ND (0.39)	ND (0.39)	1
2,3,4,6-Tetrachlorophenol	ND (1.4)	ND (1.4) UJ	ND (1.5) UJ	ND (1.6) UJ	ND (1.6) UJ	ND (1.4) UJ	ND (1.5)	NVG
2,4,5-Trichlorophenol	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.5)	ND (1.4)	ND (1.3)	ND (1.3)	NVG
2,4,6-Trichlorophenol	ND (0.88)	ND (0.91)	ND (0.92)	ND (1.0)	ND (1.0)	ND (0.91)	ND (0.92)	NVG
Acenaphthene	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.21)	ND (0.19)	ND (0.19)	20
Acenaphthylene	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.14)	NVG
Acetophenone	0.23 J	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.23)	ND (0.21)	ND (0.21)	NVG
Anthracene	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.23)	ND (0.21)	ND (0.21)	50
Atrazine	ND (0.43)	ND (0.44)	ND (0.45)	ND (0.50)	ND (0.49)	ND (0.44)	ND (0.45)	7.5
Benzaldehyde	ND (0.28)	ND (0.29) UJ	ND (0.29) UJ	ND (0.32) UJ	ND (0.31) UJ	ND (0.29) UJ	ND (0.29)	NVG
Benzo(a)anthracene	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.22)	ND (0.20)	ND (0.20)	0.002
Benzo(a)pyrene	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.23)	ND (0.21)	ND (0.21)	NVG
Benzo(b)fluoranthene	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.23)	ND (0.22)	ND (0.20)	ND (0.21)	0.002
Benzo(g,h,i)perylene	ND (0.32)	ND (0.34)	ND (0.34)	ND (0.38)	ND (0.37)	ND (0.34)	ND (0.34)	NVG
Benzo(k)fluoranthene	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.23)	ND (0.22)	ND (0.20)	ND (0.21)	0.002
4-Bromophenyl phenyl ether	ND (0.38)	ND (0.40)	ND (0.40)	ND (0.45)	ND (0.44)	ND (0.40)	ND (0.40)	50
Butyl benzyl phthalate	ND (0.44)	ND (0.45)	ND (0.46)	ND (0.51)	ND (0.50)	ND (0.45)	ND (0.46)	5
1,1'-Biphenyl	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.23)	ND (0.21)	ND (0.21)	5
2-Chloronaphthalene	ND (0.22)	ND (0.23)	ND (0.24)	ND (0.26)	ND (0.26)	ND (0.23)	ND (0.24)	5
4-Chloroaniline	ND (0.32)	ND (0.34)	ND (0.34)	ND (0.38)	ND (0.37)	ND (0.34)	ND (0.34)	NVG
Carbazole	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.23)	ND (0.23)	NVG
Caprolactam	ND (0.62)	ND (0.64) UJ	ND (0.65) UJ	ND (0.72) UJ	ND (0.71) UJ	ND (0.64) UJ	ND (0.65)	NVG
Chrysene	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.17)	ND (0.18)	0.002
bis(2-Chloroethoxy)methane	ND (0.26)	ND (0.28)	ND (0.28)	ND (0.31)	ND (0.30)	ND (0.28)	ND (0.28)	5
bis(2-Chloroethyl)ether	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.27)	ND (0.25)	ND (0.25)	1
2,2'-Oxybis(1-chloropropane)	ND (0.38)	ND (0.40)	ND (0.40)	ND (0.45)	ND (0.44)	ND (0.40)	ND (0.40)	NVG
4-Chlorophenyl phenyl ether	ND (0.35)	ND (0.36)	ND (0.37)	ND (0.41)	ND (0.40)	ND (0.36)	ND (0.37)	NVG
2,4-Dinitrotoluene	ND (0.53)	ND (0.55)	ND (0.55)	ND (0.61)	ND (0.60)	ND (0.55)	ND (0.55)	5
2,6-Dinitrotoluene	ND (0.45)	ND (0.47)	ND (0.48)	ND (0.53)	ND (0.52)	ND (0.47)	ND (0.48)	5
3,3'-Dichlorobenzidine	ND (0.48)	ND (0.50)	ND (0.51)	ND (0.56)	ND (0.55)	ND (0.50)	ND (0.51)	5
1,4-Dioxane	ND (0.63)	ND (0.65)	ND (0.66)	ND (0.73)	ND (0.71)	ND (0.65)	ND (0.66)	NVG
Dibenzo(a,h)anthracene	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.36)	ND (0.33)	ND (0.33)	NVG
Dibenzofuran	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.22)	ND (0.22)	NVG
Di-n-butyl phthalate	ND (0.47)	ND (0.49)	ND (0.50)	ND (0.55)	ND (0.54)	ND (0.49)	ND (0.50)	50
Di-n-octyl phthalate	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.25)	ND (0.23)	ND (0.23)	50
Diethyl phthalate	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.26)	ND (0.26)	50
Dimethyl phthalate	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.22)	ND (0.22)	50
bis(2-Ethylhexyl)phthalate	ND (1.6)	ND (1.6)	ND (1.7)	ND (1.8)	ND (1.8)	ND (1.6)	ND (1.7)	5
Fluoranthene	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.18)	ND (0.17)	ND (0.17)	50
Fluorene	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.17)	ND (0.17)	50
Hexachlorobenzene	ND (0.31)	ND (0.32)	ND (0.33)	ND (0.36)	ND (0.35)	ND (0.32)	ND (0.33)	0.04
Hexachlorobutadiene	ND (0.47)	ND (0.49)	ND (0.49)	ND (0.55)	ND (0.53)	ND (0.49)	ND (0.49)	0.5
Hexachlorocyclopentadiene	ND (2.6)	ND (2.8) UJ	ND (2.8) UJ	ND (3.1) UJ	ND (3.0) UJ	ND (2.8) UJ	ND (2.8)	5
Hexachloroethane	ND (0.37)	ND (0.39)	ND (0.39)	ND (0.43)	ND (0.42)	ND (0.39)	ND (0.39)	5
Indeno(1,2,3-cd)pyrene	ND (0.32)	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.36)	ND (0.33)	ND (0.33)	0.002
Isophorone	ND (0.26)	ND (0.27) UJ	ND (0.28) UJ	ND (0.31) UJ	ND (0.30) UJ	ND (0.27) UJ	ND (0.28)	50
2-Methylnaphthalene	ND (0.20)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.23)	ND (0.21)	ND (0.21)	NVG
2-Nitroaniline	ND (0.26)	ND (0.27) UJ	ND (0.28) UJ	ND (0.31) UJ	ND (0.30) UJ	ND (0.27) UJ	ND (0.28)	5
3-Nitroaniline	ND (0.37)	ND (0.38)	ND (0.39)	ND (0.43)	ND (0.42)	ND (0.38)	ND (0.39)	5
4-Nitroaniline	ND (0.42)	ND (0.44)	ND (0.44)	ND (0.49)	ND (0.48)	ND (0.44)	ND (0.44)	5
Naphthalene	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.26)	ND (0.25)	ND (0.23)	ND (0.23)	10
Nitrobenzene	ND (0.61)	ND (0.64) UJ	ND (0.64) UJ	ND (0.71) UJ	ND (0.70) UJ	ND (0.64) UJ	ND (0.64)	0.4
N-Nitroso-di-n-propylamine	ND (0.46)	ND (0.48)	ND (0.48)	ND (0.53)	ND (0.52)	ND (0.48)	ND (0.48)	NVG
N-Nitrosodiphenylamine	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.24)	ND (0.22)	ND (0.22)	50
Phenanthrene	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.17)	ND (0.18)	50
Pyrene	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.22)	ND (0.22)	50
1,2,4,5-Tetrachlorobenzene	ND (0.35)	ND (0.37)	ND (0.37)	ND (0.41)	ND (0.40)	ND (0.37)	ND (0.37)	5
Semi-Volatile Organic Compounds - 8270 SIM								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,4-Dioxane	ND (0.046)	0.0707 J	0.0966 J	0.153	0.132	0.0694 J	ND (0.049)	NVG

Notes
ug/L - micrograms per liter or parts per billion
ND - The compound was analyzed for but not detected
NVG- No Value Given
J - Estimated Value
MW-XX is a duplicate of MW-2

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998
UJ - The analyte was not detected above the reported sample quantitation limit.

Table 3
Validated Pesticides and PCBs in Groundwater
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Sample ID	MW-1	MW-2	MW-3	MW-4	GW-1	MW-XX	FIELD BLANK	*TOGs
Sample Date	**10/2/2018**	**10/1/2018**	**10/1/2018**	**10/1/2018**	**10/1/2018**	**10/1/2018**	**10/2/2018**	
Pesticides - 8081								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aldrin	ND (0.0032)	ND (0.0033)	ND (0.0032)	ND (0.0032)	ND (0.0034)	ND (0.0034)	ND (0.0034)	0.002
alpha-BHC	ND (0.0033)	ND (0.0034)	ND (0.0033)	ND (0.0033)	ND (0.0035)	ND (0.0035)	ND (0.0035)	0.01
beta-BHC	ND (0.0050)	ND (0.0052)	ND (0.0050)	ND (0.0050)	ND (0.0053)	ND (0.0053)	ND (0.0053)	0.04
delta-BHC	ND (0.0041)	ND (0.0042)	ND (0.0041)	ND (0.0041)	ND (0.0044)	ND (0.0044)	ND (0.0044)	0.04
gamma-BHC (Lindane)	ND (0.0037)	ND (0.0039)	ND (0.0037)	ND (0.0037)	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.05
alpha-Chlordane	0.097 J	ND (0.0032)	ND (0.0031)	ND (0.0031)	ND (0.0033)	ND (0.0033)	ND (0.0033)	0.05
gamma-Chlordane	0.054	ND (0.0027)	ND (0.0027)	ND (0.0027)	ND (0.0028)	ND (0.0028)	ND (0.0028)	0.05
Dieldrin	ND (0.0048)	ND (0.0049)	ND (0.0048)	ND (0.0048)	ND (0.0051)	ND (0.0051)	ND (0.0051)	0.004
4,4'-DDD	ND (0.0036)	ND (0.0037)	ND (0.0036)	ND (0.0036)	ND (0.0038)	ND (0.0038)	ND (0.0038)	0.3
4,4'-DDE	ND (0.0032)	ND (0.0033)	ND (0.0032)	ND (0.0032)	ND (0.0034)	ND (0.0034)	ND (0.0034)	0.2
4,4'-DDT	ND (0.0043)	ND (0.0044)	ND (0.0043)	ND (0.0043)	ND (0.0046)	ND (0.0046)	ND (0.0046)	0.2
Endrin	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0038)	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.2
Endosulfan sulfate	ND (0.0034)	ND (0.0035)	ND (0.0034)	ND (0.0034)	ND (0.0036)	ND (0.0036)	ND (0.0036)	0.009
Endrin aldehyde	ND (0.0042)	ND (0.0043)	ND (0.0042)	ND (0.0042)	ND (0.0045)	ND (0.0045)	ND (0.0045)	5
Endrin ketone	ND (0.0039)	ND (0.0040)	ND (0.0039)	ND (0.0039)	ND (0.0041)	ND (0.0041)	ND (0.0041)	5
Endosulfan-I	ND (0.0033)	ND (0.0034)	ND (0.0033)	ND (0.0033)	ND (0.0035)	ND (0.0035)	ND (0.0035)	NVG
Endosulfan-II	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0033)	ND (0.0033)	ND (0.0033)	NVG
Heptachlor	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0028)	ND (0.0030)	ND (0.0030)	ND (0.0030)	0.04
Heptachlor epoxide	ND (0.0038)	ND (0.0039)	ND (0.0038)	ND (0.0038)	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.03
Methoxychlor	ND (0.0042)	ND (0.0043)	ND (0.0042)	ND (0.0042)	ND (0.0045)	ND (0.0045)	ND (0.0045)	35
Toxaphene	ND (0.099)	ND (0.10)	ND (0.099)	ND (0.099)	ND (0.11)	ND (0.11)	ND (0.11)	0.06
PCBs - 8082								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Aroclor 1016	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.13)	0.09
Aroclor 1221	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.28)	ND (0.28)	0.09
Aroclor 1232	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	0.09
Aroclor 1242	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	0.09
Aroclor 1248	ND (0.079)	ND (0.081)	ND (0.079)	ND (0.079)	ND (0.084)	ND (0.084)	ND (0.084)	0.09
Aroclor 1254	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.28)	ND (0.28)	0.09
Aroclor 1260	ND (0.095)	ND (0.098)	ND (0.095)	ND (0.095)	ND (0.10)	ND (0.10)	ND (0.10)	0.09
Aroclor 1268	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.12)	0.09
Aroclor 1262	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.13)	0.09

Notes
ug/L - micrograms per liter or parts per billion
ND - The compound was analyzed for but not detected
Highlighted Values exceed NYSDEC TOGs Guidance Values
J - Estimated Value
*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998
NVG - No Value Given

Table 4
Validated Inorganic Constituents in Groundwater
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Sample Location / Sample Date	MW-1 10/2/2018	MW-2 10/1/2018	MW-3 10/1/2018	MW-4 10/1/2018	GW-1 10/1/2018	MW-XX 10/1/2018	FIELD BLANK 10/2/2018	*TOGs
Total Metals -								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aluminum	**332**	<200	**946**	**2710**	**9050**	<200	<200	100
Antimony	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	3
Arsenic	<3.0	<3.0	<3.0	<3.0	7.6	<3.0	<3.0	25
Barium	<200	<200	301	<200	<200	<200	<200	1000
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	75
Cadmium	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5
Calcium	19100	77700	83300	17900	16300	77600	<5000	NVG
Chromium	<10	<10	20.3	17.7	**160**	<10	<10	50
Cobalt	<50	<50	<50	<50	**51.2**	<50	<50	5
Copper	<10	<10	<10	<10	45.7	<10	<10	200
Iron	**682**	238	**2700**	**8610**	**40500**	275	<100	300
Lead	<3.0	<3.0	<3.0	5.5	15.7	<3.0	<3.0	25
Magnesium	<5000	10300	13400	6560	<5000	10300	<5000	35,000
Manganese	64.1	**1600**	**1670**	67.3	**1140**	**1610**	<15	300
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.7
Nickel	<10	<10	<10	16.2	**134**	<10	<10	100
Potassium	<10000	12700	14200	<10000	<10000	12900	<10000	NVG
Selenium	<10	<10	<10	<10	<10	<10	<10	10
Silver	<10	<10	<10	<10	<10	<10	<10	50
Sodium	**148000**	**259000**	**161000**	**33800**	**43500**	**258000**	<10000	20000
Thallium	<10	<10	<10	<10	<10	<10	<10	0.5
Vanadium	<50	<50	<50	<50	<50	<50	<50	14
Zinc	<20	<20	<20	<20	184	<20	<20	2,000
Dissolved Metals								
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aluminum	<200	<200	<200	<200	<200	<200	NA	100
Antimony	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	NA	3
Arsenic	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA	25
Barium	<200	<200	278	<200	<200	<200	NA	1000
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	75
Cadmium	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA	5
Calcium	18800	77200	79100	17900	15400	76700	NA	NVG
Chromium	<10	<10	<10	<10	<10	<10	NA	50
Cobalt	<50	<50	<50	<50	<50	<50	NA	5
Copper	<10	<10	<10	<10	<10	<10	NA	200
Iron	<100	<100	<100	<100	<100	<100	NA	300
Lead	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA	25
Magnesium	<5000	10200	12500	6210	<5000	10200	NA	35,000
Manganese	<15	**1550**	**1550**	<15	**498**	**1540**	NA	300
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NA	0.7
Nickel	<10	<10	<10	<10	32.8	<10	NA	100
Potassium	<10000	12600	13200	<10000	<10000	12800	NA	NVG
Selenium	<10	<10	<10	<10	<10	<10	NA	10
Silver	<10	<10	<10	<10	<10	<10	NA	50
Sodium	**147000**	**265000**	**153000**	**34400**	**45100**	**238000**	NA	20000
Thallium	<10	<10	<10	<10	<10	<10	NA	0.5
Vanadium	<50	<50	<50	<50	<50	<50	NA	14
Zinc	<20	<20	<20	<20	34	<20	NA	2,000

Notes
ug/L - micrograms per liter or parts per billion
NA - Not Applicable
NVG - No Value Given
Highlighted Values exceed NYSDEC TOGs Guidance Values

*NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

Table 5
Validated Polyfluoroalkyl Substances in Groundwater
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, New York

Sample ID Sample Date	MW-1 10/2/2018	MW-2 10/1/2018	MW-3 10/1/2018	MW-4 10/1/2018	GW-1 10/1/2018	MW-XX 10/1/2018	FIELD BLANK 10/2/2018	PFOA/PFOS Proposed Guidance Values
Polyfluoroalkyl Substances - 537								
Units	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Perfluorobutanoic acid	59.1	12.1	11.8 J	3.76 J	5.17 J	12.2	ND (2.0)	NVG
Perfluoropentanoic acid	192	11.1	18.3	5.28	6.42	11.5	ND (1.5)	NVG
Perfluorohexanoic acid	104	10.8	12	4.21 J	6.77	11.6	ND (1.0)	NVG
Perfluoroheptanoic acid	131	10.4	7.36	3.84	4.96	10.1	ND (1.0)	NVG
Perfluorooctanoic acid (PFOA)	**87.8**	**59.7**	**59.5**	**15.6**	**17.3**	**63.8**	ND (1.0)	10
Perfluorononanoic acid	33.8	13.2	13	7.1	12.4	13.4	ND (1.0)	NVG
Perfluorodecanoic acid	3.01 J	ND (1.0)	ND (1.5)	ND (1.2)	2.15 J	ND (1.0)	ND (1.0)	NVG
Perfluoroundecanoic acid	26.7	ND (1.0)	1.62 J	2.42 J	11.5	ND (1.0)	ND (1.0)	NVG
Perfluorododecanoic acid	ND (1.5)	ND (1.5)	ND (2.2)	ND (1.8)	ND (1.5)	ND (1.5)	ND (1.5)	NVG
Perfluorotridecanoic acid	ND (1.0)	ND (1.0)	ND (1.5)	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)	NVG
Perfluorotetradecanoic acid	ND (1.0)	ND (1.0)	ND (1.5)	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)	NVG
Perfluorobutanesulfonic acid	5.39	6.28	6.19	ND (1.2)	2.92	6.66	ND (1.0)	NVG
Perfluorohexanesulfonic acid	15.5	6.15	5.53	3.77	5.01	6.19	ND (1.0)	NVG
Perfluoroheptanesulfonic acid	1.91 J	1.39 J	ND (1.5)	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)	NVG
Perfluorooctanesulfonic acid (PFOS)	**104**	9.19	**43**	**21.8**	**49.2**	9.13	ND (1.5)	10
Perfluorodecanesulfonic acid	ND (1.0)	ND (1.0)	ND (1.5) UJ	ND (1.2)	ND (1.0) UJ	ND (1.0)	ND (1.0)	NVG
PFOSA	ND (1.0)	ND (1.0)	3.20 J	2.43 J	13.9	ND (1.0)	ND (1.0)	NVG
MeFOSAA	ND (4.0)	ND (4.0)	ND (5.9)	ND (4.8)	ND (4.0)	ND (4.0)	ND (4.0)	NVG
EtFOSAA	ND (4.0)	ND (4.0)	ND (5.9)	ND (4.8)	7.70 J	ND (4.0)	ND (4.0)	NVG
6:2 Fluorotelomer sulfonate	ND (2.0)	ND (2.0)	ND (2.9)	3.01 J	ND (2.0) UJ	ND (2.0)	ND (2.0)	NVG
8:2 Fluorotelomer sulfonate	ND (2.0)	ND (2.0)	ND (2.9)	ND (2.4)	ND (2.0)	ND (2.0)	ND (2.0)	NVG
Combined PFOA and PFOS	**179.11**	68.89	**102.5**	37.4	66.5	**72.93**	ND	70

Notes
ng/L - nanograms per liter
ND - The compound was analyzed for but not detected
J - Estimated Value
MW-XX is a duplicate of MW-2

*NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient water Quality Standards and Guidance Values and Groundwater Effluent Limitations June 1998
UJ - The analyte was not detected above the reported sample quantitation limit.

Exceeds proposed guidance values
NVG - No Value Given

Table 6
Analytical Results of Pesticides In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SGB South (0-2 ft)	SGB South (5-8 ft)	SGB South (10-12 ft)	SGB North (0-2 ft)	SGB North (5-8 ft)	SGB North (10-12 ft)	SGB East (0-2 ft)	SGB East (5-8 ft)	SGB East (10-12 ft)	Field Blank A	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous		
Date Sampled	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018		
Pesticides via EPA Method 8081B												
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/kg	ug/kg
Aldrin	ND (0.57)	ND (0.54)	ND (0.56)	ND (0.52)	ND (0.50)	ND (0.54)	ND (0.53)	ND (0.56)	ND (0.54)	ND (0.0034)	5	680
alpha-BHC	ND (0.57)	ND (0.54)	ND (0.55)	ND (0.51)	ND (0.49)	ND (0.53)	ND (0.53)	ND (0.55)	ND (0.53)	ND (0.0035)	20	3400
beta-BHC	ND (0.63)	ND (0.60)	ND (0.62)	ND (0.57)	ND (0.55)	ND (0.59)	ND (0.58)	ND (0.61)	ND (0.59)	ND (0.0053)	36	3000
delta-BHC	ND (0.67)	ND (0.63)	ND (0.65)	ND (0.60)	ND (0.58)	ND (0.63)	ND (0.62)	ND (0.65)	ND (0.63)	ND (0.0044)	40	500000
gamma-BHC (Lindane)	ND (0.51)	ND (0.49)	ND (0.50)	ND (0.46)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.50)	ND (0.48)	ND (0.0040)	100	9200
alpha-Chlordane	ND (0.56)	8.8 J	ND (0.55)	ND (0.51)	ND (0.49)	ND (0.53)	68.9 JD	**128 JD**	**102 JD**	ND (0.0033)	94	24000
gamma-Chlordane	ND (0.32)	7.4	ND (0.31)	ND (0.28)	ND (0.27)	ND (0.30)	65.9 D	113 D	82 D	ND (0.0028)	NVG	NVG
Dieldrin	ND (0.48)	**14.3**	ND (0.47)	ND (0.43)	ND (0.42)	ND (0.45)	**56.2**	**109 D**	**97.8 D**	ND (0.0051)	5	1400
4,4'-DDD	ND (0.64)	ND (0.61)	ND (0.63)	ND (0.58)	ND (0.56)	ND (0.60)	ND (0.59)	ND (0.62)	ND (0.60)	ND (0.0038)	3.3	92000
4,4'-DDE	ND (0.61)	ND (0.58)	ND (0.60)	ND (0.55)	ND (0.53)	ND (0.58)	ND (0.57)	ND (0.59)	ND (0.57)	ND (0.0034)	3.3	62000
4,4'-DDT	ND (0.62)	ND (0.58)	ND (0.60)	1.2 J	ND (0.54)	ND (0.58)	ND (0.57)	ND (0.60)	ND (0.58)	ND (0.0046)	3.3	47000
Endrin	ND (0.54)	ND (0.51)	ND (0.53)	ND (0.49)	ND (0.47)	ND (0.51)	ND (0.50)	ND (0.53)	ND (0.51)	ND (0.0040)	14	89000
Endosulfan sulfate	ND (0.54)	ND (0.52)	ND (0.53)	ND (0.49)	ND (0.47)	ND (0.51)	ND (0.51)	ND (0.53)	ND (0.51)	ND (0.0036)	2,400	200000
Endrin aldehyde	ND (0.40)	ND (0.37)	ND (0.39)	ND (0.36)	ND (0.34)	ND (0.37)	ND (0.37)	ND (0.38)	ND (0.37)	ND (0.0045)	NVG	NVG
Endosulfan-I	ND (0.40)	ND (0.38)	ND (0.39)	ND (0.36)	ND (0.35)	ND (0.38)	ND (0.37)	ND (0.39)	ND (0.38)	ND (0.0041)	2,400	200000
Endosulfan-II	ND (0.44)	ND (0.41)	ND (0.42)	ND (0.39)	ND (0.38)	ND (0.41)	ND (0.40)	ND (0.42)	ND (0.41)	ND (0.0035)	2,400	200000
Heptachlor	ND (0.60)	ND (0.57)	ND (0.59)	ND (0.54)	ND (0.52)	ND (0.57)	ND (0.56)	ND (0.58)	ND (0.56)	ND (0.0033)	42	15000
Heptachlor epoxide	ND (0.49)	ND (0.46)	ND (0.48)	ND (0.44)	ND (0.43)	ND (0.46)	ND (0.45)	ND (0.48)	ND (0.46)	ND (0.0030)	NVG	NVG
Methoxychlor	ND (0.55)	ND (0.52)	ND (0.54)	ND (0.50)	ND (0.48)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)	ND (0.0040)	NVG	NVG
Endrin ketone	ND (0.50)	ND (0.48)	ND (0.49)	ND (0.45)	ND (0.44)	ND (0.48)	ND (0.47)	ND (0.49)	ND (0.47)	ND (0.0045)	NVG	NVG
Toxaphene	ND (16)	ND (15)	ND (16)	ND (15)	ND (14)	ND (15)	ND (15)	ND (16)	ND (15)	ND (0.11)	NVG	NVG
Pesticides Total	ND	30.5	ND	1.2	ND	ND	191	350	281.8	ND	NVG	NVG

Notes:
All soil concentrations are reported in micrograms per kilogram (µg/kg) or parts per billion.
All aqueous concentrations are reported in ug/L or ppb
J - The numerical value is the approximate concentration
NVG - No Value Given
ND - Not detected at or above reporting limits
D - Analyte concentration obtained from dilution.

**6 NYCRR Part 375: Environmental Remediation Programs:*
Subparts 375-1 to 375-4 & 375-6;Table 6.8a December 14, 2006.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 6
Analytical Results of Pesticides In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SB-1 West (0-2 ft)	SB-1 West (5-8 ft)	SB-1 West (10-12 ft)	SB-1 East (0-2 ft)	SB-1 East (5-8 ft)	SB-1 East (10-12 ft)	SB-1 South (0-2 ft)	SB-1 South (5-8 ft)	SB-1 South (10-12 ft)	SB-1 XX	Field Blank B	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous		
Date Sampled	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/2/2018	10/2/2018	10/2/2018	10/1/2018	10/2/2018		
Pesticides via EPA Method 8081B													
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/kg	ug/kg
Aldrin	ND (0.60)	ND (0.56)	ND (0.54)	ND (0.54)	ND (0.52)	ND (0.55)	ND (0.55)	ND (0.51)	ND (0.53)	ND (0.55)	ND (0.0034)	5	680
alpha-BHC	ND (0.59)	ND (0.55)	ND (0.53)	ND (0.53)	ND (0.51)	ND (0.54)	ND (0.54)	ND (0.50)	ND (0.53)	ND (0.54)	ND (0.0035)	20	3400
beta-BHC	ND (0.66)	ND (0.61)	ND (0.59)	ND (0.59)	ND (0.57)	ND (0.60)	ND (0.60)	ND (0.56)	ND (0.58)	ND (0.60)	ND (0.0053)	36	3000
delta-BHC	ND (0.70)	ND (0.65)	ND (0.63)	ND (0.63)	ND (0.60)	ND (0.64)	ND (0.64)	ND (0.60)	ND (0.62)	ND (0.64)	ND (0.0044)	40	500000
gamma-BHC (Lindane)	ND (0.54)	ND (0.50)	ND (0.48)	ND (0.48)	ND (0.46)	ND (0.49)	ND (0.49)	ND (0.46)	ND (0.48)	ND (0.49)	ND (0.0040)	NVG	NVG
alpha-Chlordane	2.6 J	ND (0.54)	ND (0.53)	14.5 J	ND (0.51)	2.4 J	ND (0.53)	ND (0.50)	ND (0.52)	2.0 J	ND (0.0033)	94	24000
gamma-Chlordane	2.7	ND (0.31)	ND (0.29)	10.7	ND (0.28)	2.5	ND (0.30)	ND (0.28)	ND (0.29)	2.3	ND (0.0028)	NVG	NVG
Dieldrin	ND (0.50)	ND (0.46)	ND (0.45)	**14.3**	ND (0.43)	ND (0.46)	ND (0.45)	ND (0.43)	ND (0.44)	ND (0.46)	ND (0.0051)	5	1400
4,4'-DDD	ND (0.67)	ND (0.62)	ND (0.60)	ND (0.60)	ND (0.58)	ND (0.61)	ND (0.61)	ND (0.57)	ND (0.59)	ND (0.61)	ND (0.0038)	3.3	92000
4,4'-DDE	ND (0.64)	ND (0.59)	ND (0.57)	0.83 JN	ND (0.55)	1.1	ND (0.58)	ND (0.54)	0.92	ND (0.58)	ND (0.0034)	3.3	62000
4,4'-DDT	1.6 J	ND (0.60)	ND (0.58)	**4.4 J**	ND (0.56)	2.7 J	ND (0.59)	ND (0.55)	ND (0.57)	0.72 J-	ND (0.0046)	3.3	47000
Endrin	ND (0.56)	ND (0.52)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)	ND (0.51)	ND (0.48)	ND (0.50)	ND (0.52)	ND (0.0040)	14	89000
Endosulfan sulfate	ND (0.57)	ND (0.53)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)	ND (0.52)	ND (0.48)	ND (0.51)	ND (0.52)	ND (0.0036)	2,400	200000
Endrin aldehyde	ND (0.41)	ND (0.38)	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.38)	ND (0.35)	ND (0.37)	ND (0.38)	ND (0.0045)	NVG	NVG
Endosulfan-I	ND (0.42)	ND (0.39)	ND (0.38)	ND (0.38)	ND (0.36)	ND (0.39)	ND (0.38)	ND (0.36)	ND (0.37)	ND (0.38)	ND (0.0041)	2,400	200000
Endosulfan-II	ND (0.45)	ND (0.42)	ND (0.41)	ND (0.41)	ND (0.39)	ND (0.42)	ND (0.41)	ND (0.39)	ND (0.40)	ND (0.42)	ND (0.0035)	2,400	200000
Heptachlor	ND (0.63)	ND (0.58)	ND (0.56)	ND (0.56)	ND (0.54)	ND (0.58)	ND (0.57)	ND (0.53)	ND (0.56)	ND (0.57)	ND (0.0033)	42	15000
Heptachlor epoxide	ND (0.51)	ND (0.47)	ND (0.46)	ND (0.46)	ND (0.44)	ND (0.47)	ND (0.46)	ND (0.43)	ND (0.45)	ND (0.47)	ND (0.0030)	NVG	NVG
Methoxychlor	ND (0.58)	ND (0.54)	ND (0.52)	ND (0.52)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.49)	ND (0.51)	ND (0.53)	ND (0.0040)	NVG	NVG
Endrin ketone	ND (0.53)	ND (0.49)	ND (0.47)	ND (0.47)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.45)	ND (0.47)	ND (0.48)	ND (0.0045)	NVG	NVG
Toxaphene	ND (17)	ND (16)	ND (15)	ND (15)	ND (15)	ND (16)	ND (15)	N D (14)	ND (15)	ND (16)	ND (0.11)	NVG	NVG
Pesticides Total	6.9	ND	ND	44.73	ND	8.7	ND	ND	0.92	5.02	ND	NVG	NVG

Notes:
All soil concentrations are reported in micrograms per kilogram (µg/kg) or parts per billion.
All aqueous concentrations are reported in ug/L or ppb
J - The numerical value is the approximate concentration.
NVG - No Value Given
ND - Not detected at or above reporting limits
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.
J- the result is an estimated quantity, but the result may be biased low.

**6 NYCRR Part 375: Environmental Remediation Programs: Subparts 375-1 to 375-4 & 375-6;Table 6.8a December 14, 2006.*

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

SB-1 XX is the duplicate of SB-1 West (0-2 ft)

Table 6
Analytical Results of Pesticides In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SB-6/SSB South (0-2 ft)	SB-6/SSB South (5-8 ft)	SB-6/SSB South (10-12 ft)	SB-6/SSB East (0-2 ft)	SB-6/SSB East (5-8 ft)	SB-6/SSB East (10-12 ft)	SB-6/SSB West (0-2 ft)	SB-6/SSB West (5-8 ft)	SB-6/SSB West (10-12 ft)	SB-6/SSB North (0-2 ft)	SB-6/SSB North (5-8 ft)	SB-6/SSB North (10-12 ft)	SB-6/SSB XX	NYSDEC Part 375* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Date Sampled	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018		
Pesticides via EPA Method 8081B															
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aldrin	1.1	ND (0.58)	ND (0.58)	ND (0.55)	2.0 J	1.4 JN	ND (0.56)	ND (0.55)	ND (0.54)	ND (0.53)	ND (0.56)	ND (0.52)	1.1	5	680
alpha-BHC	ND (0.55)	ND (0.58)	ND (0.57)	ND (0.54)	ND (0.56)	0.69 J +JN	ND (0.55)	ND (0.54)	ND (0.53)	ND (0.52)	ND (0.55)	ND (0.52)	ND (0.58)	20	3400
beta-BHC	ND (0.61)	ND (0.64)	ND (0.64)	ND (0.60)	ND (0.62)	ND (0.67)	ND (0.62)	ND (0.60)	ND (0.59)	ND (0.58)	ND (0.61)	ND (0.57)	ND (0.64)	36	3000
delta-BHC	ND (0.64)	ND (0.68)	ND (0.68)	ND (0.64)	ND (0.66)	ND (0.71)	ND (0.65)	ND (0.64)	ND (0.63)	ND (0.62)	ND (0.65)	ND (0.61)	ND (0.68)	40	500000
gamma-BHC (Lindane)	ND (0.49)	ND (0.52)	ND (0.52)	ND (0.49)	ND (051)	1.2 JN	ND (0.50)	ND (0.49)	ND (0.48)	ND (0.47)	ND (0.50)	ND (0.47)	ND (0.52)	NVG	NVG
alpha-Chlordane	19.2 J	2.5 J	3.6 J	6.2 J	560 J	37.6 J	2.5 J	7.1 J	ND (0.53)	ND (0.52)	ND (0.56)	7.9 J	17.2 J	94	24000
gamma-Chlordane	14.9	2.9	2.7	3.1 J	64.5 JN	34.8	2.6	5.1	N D (0.30)	ND (0.29)	ND (0.31)	4.7 J	10	NVG	NVG
Dieldrin	**7.3**	ND (0.49)	1.6	2.0 JN	**28.1**	**25.5**	1.1	4.3	ND (0.45)	ND (0.44)	ND (0.46)	1.4	4.3	5	1400
4,4'-DDD	1.7	ND (0.65)	ND (0.65)	ND (0.61)	**41.3**	2.8	ND (0.63)	ND (0.61)	ND (0.60)	ND (0.59)	ND (0.62)	ND (0.58)	ND (0.65)	3.3	92000
4,4'-DDE	**4.7**	ND (0.62)	ND (0.62)	**4.3**	**8.1 J**	1.2 JN	ND (0.60)	1.0 J	ND (0.57)	ND (0.56)	ND (0.59)	ND (0.56)	**6.8**	3.3	62000
4,4'-DDT	**6**	0.91	1.2 J	1.3 JN	ND (0.61)	2	ND (0.60)	ND (0.59)	N D (0.58)	ND (0.57)	ND (0.60)	ND (0.56)	**4.5**	3.3	47000
Endrin	ND (0.52)	ND (0.55)	ND (0.55)	ND (0.52)	ND (0.54)	ND (0.57)	ND (0.53)	ND (0.52)	N D (0.51)	ND (0.50)	ND (0.52)	ND (0.49)	ND (0.55)	14	89000
Endosulfan sulfate	ND (0.52)	ND (0.55)	ND (0.55)	ND (0.52)	ND (0.54)	ND (0.58)	ND (0.53)	ND (0.52)	ND (0.51)	ND (0.50)	ND (0.53)	ND (0.49)	ND (0.55)	2,400	200000
Endrin aldehyde	ND (0.38)	ND (0.40)	ND (0.40)	ND (0.38)	ND (0.39)	ND (0.42)	ND (0.39)	ND (0.38)	ND (0.37)	ND (0.36)	ND (0.38)	ND (0.36)	ND (0.40)	NVG	NVG
Endosulfan-I	ND (0.39)	ND (0.41)	ND (0.41)	ND (0.38)	ND (0.40)	ND (0.42)	ND (0.39)	ND (0.38)	ND (0.38)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.41)	2,400	200000
Endosulfan-II	ND (0.42)	ND (0.44)	ND (0.44)	ND (0.42)	ND (0.43)	ND (0.46)	ND (0.43)	ND (0.42)	ND (0.41)	ND (0.40)	ND (0.42)	ND (0.40)	ND (0.44)	2,400	200000
Heptachlor	1.1 J	ND (0.61)	ND (0.61)	ND (0.58)	ND (0.59)	ND (0.63)	ND (0.59)	ND (0.57)	N D (0.56)	ND (0.55)	ND (0.58)	ND (0.55)	0.98 J	42	15000
Heptachlor epoxide	ND (0.47)	ND (0.50)	ND (0.49)	ND (0.47)	ND (0.48)	ND (0.52)	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.45)	ND (0.47)	ND (0.44)	1.7 JN	NVG	NVG
Methoxychlor	ND (0.53)	ND (0.56)	ND (0.56)	ND (0.53)	ND (0.55)	ND (0.59)	ND (0.54)	ND (0.53)	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.50)	ND (0.56)	NVG	NVG
Endrin ketone	ND (0.49)	ND (0.51)	ND (0.51)	ND (0.48)	ND (0.50)	ND (0.53)	ND (0.49)	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.46)	ND (0.51)	NVG	NVG
Toxaphene	ND (16)	ND (16)	ND (16)	ND (16)	ND (16)	ND (17)	ND (16)	ND (16)	ND (15)	ND (15)	ND (16)	ND (15)	ND (17)	NVG	NVG
Pesticides Total	56	6.31	9.1	16.9	211	107.19	6.2	17.5	ND	ND	ND	14	46.58	NVG	NVG

Notes:
All soil concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
All aqueous concentrations are reported in ug/L or ppb
J - The numerical value is the approximate concentration.
NVG - No Value Given
ND - Not detected at or above reporting limits
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

*6 NYCRR Part 375: Environmental Remediation Programs:
Subparts 375-1 to 375-4 & 375-6:Table 6.8a December 14, 2006.*

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

SB-6/SSB-XX is the duplicate of SB-6/SSB South (0-2 ft)

Table 7
Analytical Results of Metals In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SGB South (0-2 ft)	SGB South (5-8 ft)	SGB South (10-12 ft)	SGB North (0-2 ft)	SGB North (5-8 ft)	SGB North (10-12 ft)	SGB East (0-2 ft)	SGB East (5-8 ft)	SGB East (10-12 ft)	Field Blank A	NYSDEC Part 375*	NYSDEC Part 375*
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous	Unrestricted SCOs	Commercial SCOs
Date Sampled	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018		
Metals												
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	5270	6440	7990	3170	1820	1780	2870	4730	3570	<200	NVG	NVG
Antimony	<2.2	<2.2	<2.3	<2.1	<2.0	<2.1	<2.1	<2.1	<2.0	<6.0	NVG	NVG
Arsenic	2.2	<2.2	2.7	<2.1	12.2	<2.1	2.1	2.4	2.3	<3.0	13	16
Barium	<22	47.3	81.7	<21	<20	<21	<21	24.6	<20	<200	350	400
Beryllium	<0.22	0.29	0.29	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<1.0	7.2	590
Cadmium	<0.55	<0.56	<0.57	<0.52	<0.50	<0.51	<0.53	<0.51	0.68	<3.0	2.5	9.3
Calcium	679	3130	964	<520	<500	<510	1420	888	995	<5000	NVG	NVG
Chromium	7.9	11.2	12.3	7.2	52.2	3.4	6.7	9	7.9	<10	30	1500
Cobalt	<5.5	<5.6	<5.7	<5.2	<5.0	<5.1	<5.3	<5.1	<5.1	<50	NVG	NVG
Copper	6	8.9	31.4	5.5	4.2	3.1	7.9	10.1	9.6	<10	50	270
Iron	7510	7930	9560	8170	8540	3620	6030	7830	10600	<100	NVG	NVG
Lead	5.6	**81.8**	**210**	3.8	3.9	<2.1	44.8	15.7	7.3	<3.0	63	1,000
Magnesium	847	1140	1270	599	<500	564	727	902	952	<5000	NVG	NVG
Manganese	98.8	71	73.5	113	117	43.5	98.6	109	262	<15	1600	10,000
Mercury	0.041	<0.034	0.043	<0.034	<0.031	<0.032	0.044	**0.27**	0.17	<0.20	0.18	2.8
Nickel	8.2	8.6	10.9	8.1	6	7	5.8	9.1	9.7	<10	30	310
Potassium	<1100	<1100	<1100	<1000	<1000	<1000	<1100	<1000	<1000	<10000	NVG	NVG
Selenium	<2.2	<2.2	<2.3	<2.1	<2.0	<2.1	<2.1	<2.1	<2.0	<10	3.9	1500
Silver	<0.55	<0.56	<0.57	<0.52	<0.50	<0.51	<0.53	<0.51	<0.51	<10	2	1500
Sodium	<1100	<1100	<1100	<1000	<1000	<1000	<1100	<1000	<1000	<10000	NVG	NVG
Thallium	<1.1	<1.1	<1.1	<1.0	<1.0	<1.0	<1.1	<1.0	<1.0	<10	NVG	NVG
Vanadium	9.9	13.5	14.4	7.3	30.7	<5.1	7.3	10.7	7.5	<50	NVG	NVG
Zinc	14.7	44.2	**119**	11.2	6.7	8.6	99.6	30.5	28.5	<20	109	10,000

Notes:
All soil concentrations are reported in milligrams per kilogram (mg/kg) or parts per million.
All aqueous concentrations are reported in ug/L or ppb
< Not detected at or above reporting limits
NVG - No Value Given

**6 NYCRR Part 375: Environmental Remediation Programs:*
Subparts 375-1 to 375-4 & 375-6;Table 6.8a December 14, 2006.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

Table 7
Analytical Results of Metals In Soil Samples
Former Zoe Chemical Site
1801 Falmouth Road
New Hyde Park, New York

Sample ID	SB-1 West (0-2 ft)	SB-1 West (5-8 ft)	SB-1 West (10-12 ft)	SB-1 East (0-2 ft)	SB-1 East (5-8 ft)	SB-1 East (10-12 ft)	SB-1 South (0-2 ft)	SB-1 South (5-8 ft)	SB-1 South (10-12 ft)	SB-1 XX	Field Blank B	NYSDEC	NYSDEC
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Aqueous	Part 375*	Part 375*
Date Sampled	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/1/2018	10/2/2018	10/2/2018	10/2/2018	10/1/2018	10/2/2018	Unrestricted SCOs	Commercial SCOs
Metals													
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	mg/kg	mg/kg
Aluminum	7980	2930	4160	4050	4780	5120	3040	3330	3850 J+	9260	<200	NVG	NVG
Antimony	<2.1	<2.0	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0	<2.2	<2.2	<6.0	NVG	NVG
Arsenic	3.5	2	2.1	<2.1	2	2.7	<2.1	<2.0	<2.2	3.5	<3.0	13	16
Barium	42	<20	<21	<21	<20	33.7	<21	<20	22.1	47.2	<200	350	400
Beryllium	0.28	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21	0.23	<0.22	0.29	<1.0	7.2	590
Cadmium	<0.53	0.58	<0.52	<0.53	<0.51	<0.50	<0.52	<0.49	<0.54	<0.54	<3.0	2.5	9.3
Calcium	16100 J-	636	1110	4920	589	4100	<520	<490	562	26800 J	<5000	NVG	NVG
Chromium	12.8	10.5	10.2	6.7	7.7	11.8	6.7	5.5	5.7	14.2	<10	30	1500
Cobalt	<5.3	<5.0	<5.2	<5.3	<5.1	<5.0	<5.2	<4.9	<5.4	<5.4	<50	NVG	NVG
Copper	22.7	10.4	7.2	6.4	7.1	31.8	4.4	5	**70.8**	21.5	<10	50	270
Iron	11700	14000	11000	6600	7320	8620	5760	6360	6200 J+	13700	<100	NVG	NVG
Lead	29	14.2	12.6	8.5	6.5	39.7	2.9	3.5	6.1	29.9	<3.0	63	1,000
Magnesium	3400	735	827	3210	884	2130	607	721	645	4190	<5000	NVG	NVG
Manganese	582 J	207	172	197	158	158	103	243	472	197 J-	<15	1600	10,000
Mercury	0.047	<0.032	<0.031	<0.033	<0.031	0.073	<0.032	<0.032	<0.032	0.048	<0.20	0.18	2.8
Nickel	11	10.4	8.1	9.9	7.7	9.3	6.7	8	10.1	10	<10	30	310
Potassium	<1100	<1000	<1000	<1100	<1000	<1000	<1000	<980	<1100	<1100	<10000	NVG	NVG
Selenium	<2.1	<2.0	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0	<2.2	<2.2	<10	3.9	1500
Silver	<0.53	<0.50	<0.52	<0.53	<0.51	<0.50	<0.52	<0.49	<0.54	<0.54	<10	2	1500
Sodium	<1100	<1000	<1000	<1100	<1000	<1000	<1000	<980	<1100	<1100	<10000	NVG	NVG
Thallium	<1.1	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0	<0.98	<1.1	<1.1	<10	NVG	NVG
Vanadium	16.8	6.6	8.4	7.5	9.1	11.9	6.4	6.4	6.9	18.4	<50	NVG	NVG
Zinc	38	**1500**	**515**	16.2	14.4	51.1	10	10	32.9	36.3	<20	109	10,000

Notes:
All soil concentrations are reported in milligrams per kilogram (mg/kg) or parts per million.
All aqueous concentrations are reported in ug/L or ppb
< Not detected at or above reporting limits
NVG - No Value Given
J- the result is an estimated quantity, but the result may be biased low.
J+ the result is an estimated quantity, but the result may be biased high.

**6 NYCRR Part 375: Environmental Remediation Programs:*
Subparts 375-1 to 375-4 & 375-6;Table 6.8a December 14, 2006.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

SB-1 XX is the duplicate of SB-1 West (0-2 ft)

Table 7
Analytical Results of Metals In Soil Samples
Former Zoe Chemical Site
180 I Falmouth Road
New Hyde Park, New York

Sample ID	SB-6/SSB South (0-2 ft)	SB-6/SSB South (5-8 ft)	SB-6/SSB South (10-12 ft)	SB-6/SSB East (0-2 ft)	SB-6/SSB East (5-8 ft)	SB-6/SSB East (10-12 ft)	SB-6/SSB West (0-2 ft)	SB-6/SSB West (5-8 ft)	SB-6/SSB West (10-12 ft)	SB-6/SSB North (0-2 ft)	SB-6/SSB North (5-8 ft)	SB-6/SSB North (10-12 ft)	SB-6/SSB XX	NYSDEC Part 378* Unrestricted SCOs	NYSDEC Part 375* Commercial SCOs
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Date Sampled	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018		
Metals															
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg
Aluminum	7710	5380	5740	7310	6250	6500 J+	5370	4370	2320	2100	3720	1390	7790	NVG	NVG
Antimony	<2.3	<2.2	<2.2	<2.2	<2.2	<2.2 UJ	<2.1	<2.1	<2.2	<2.0	<2.1	<2.1	<2.2	NVG	NVG
Arsenic	**14.6 J**	<2.2	2.9	3.3	2.5	2.9	2.5	<2.1	<2.2	<2.0	<2.1	<2.1	4.8 J-	13	16
Barium	67.8	36.3	36.8	63	43.1	48.7	37.3	26.3	<22	<20	<21	<21	85.4	350	400
Beryllium	0.39	0.22	0.26	0.26	0.24	0.26	0.23	<0.21	<0.22	<0.20	<0.21	<0.21	0.24	7.2	590
Cadmium	<0.57	<0.54	<0.56	<0.55	<0.55	<0.56	<0.54	<0.53	<0.54	<0.49	<0.51	<0.52	<0.54	2.5	9.3
Calcium	31600	1710	3220	31400	5060	8280 J+	1510	4770	<540	<490	<510	<520	33700	NVG	NVG
Chromium	24.1	12.2	14.2	17.9	15.4	14.8	12.2	15.8	5.2	8	9.7	3.5	19.4	30	1500
Cobalt	<5.7	<5.4	<5.6	<5.5	<5.5	<5.6	<5.4	<5.3	<5.4	<4.9	<5.1	<5.2	<5.4	NVG	NVG
Copper	27.5	11.2	12.9	25.1	16.4	23.3	11.2	12.2	4.1	4.3	6.5	3.4	24.7	50	270
Iron	12900	10800	12800	11800	11800	11800	11700	9400	6480	6010	7000	5660	13100	NVG	NVG
Lead	**66.1**	20.4	17	**122**	27.9	54.6	20.1	16.8	2.4	3.1	6.4	<2.1	**80.2**	63	1,000
Magnesium	5680	1900	2110	7230	2550	2700 J+	1860	1570	<540	<490	615	<520	7230	NVG	NVG
Manganese	274	285	307	226	361	249 J+	307	157	104	104	56.1	47.1	233	1600	10,000
Mercury	**0.19**	<0.036	0.034	0.098	0.089	0.042	<0.034	<0.033	<0.032	<0.032	<0.032	<0.031	0.1	0.18	2.8
Nickel	16	17.4	16.9	14.2	16.1	14.4	16.2	13	7	9.3	7	<4.2	16.4	30	310
Potassium	1420	<1100	<1100	1400	<1100	<1100	<1100	<1100	<1100	<990	<1000	<1000	1930	NVG	NVG
Selenium	<2.3	<2.2	<2.2	<2.2	<2.2	<2.2	<2.1	<2.1	<2.2	<2.0	<2.1	<2.1	<2.2	3.9	1500
Silver	<0.57	<0.54	<0.56	<0.55	<0.55	<0.56	<0.54	<0.53	<0.54	<0.49	<0.51	<0.52	<0.54	2	1500
Sodium	<1100	<1100	<1100	<1100	<1100	<1100	<1100	<1100	<1100	<990	<1000	<1000	<1100	NVG	NVG
Thallium	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.99	<1.0	<1.0	<1.1	NVG	NVG
Vanadium	30.2	15.6	17.5	25.4	20.7	19.3	16.3	12.6	6.2	5.8	7.9	<5.2	27.8	NVG	NVG
Zinc	**133**	30.1	32.5	60.1	39.4	63	31.6	27.2	7.5	7.6	12.2	5.5	90.7	109	10,000

Notes:
All soil concentrations are reported in micrograms per kilogram (ug/kg) or parts per billion.
All aqueous concentrations are reported in ug/L or ppb
< Not detected at or above reporting limits
NVG - No Value Given
J- the result is an estimated quantity, but the result may be biased low.
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J The numerical value is the approximate concentration.

**6 NYCRR Part 375: Environmental Remediation Programs:*
Subparts 375-1 to 375-4 & 375-6:Table 6.8a December 14 2006.

Bold indicates that value is above 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives.
Highlighted values indicates that value is above 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives.

SB-6/SSB-XX is the duplicate of SB-6/SSB South (0-2 ft)

TABLE 8
Summary of VOCs in the Outdoor Air and Soil Vapor

1801 Falmouth Avenue
New Hyde Park, New York

Sample ID:	SV-1		SV-2		OA-1		OA-2		OA-3		OA-4	
Sample Date:	12/19/18		12/19/18		12/19/18		12/19/19		12/19/19		12/19/19	
Volatile Organic Compounds												
Units	µg/m³	Q	µg/m³	Q	µg/m³	Q	µg/m³	Q	µg/m³	Q	µg/m³	Q
Dichlorodifluoromethane	323		3.29		1.95		2		1.95		2.07	
Chloromethane	0.413	U	0.413	U	0.956		0.995		0.979		0.997	
Freon-114	69.8		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	0.511	U	0.511	U	0.051	U	0.051	U	0.051	U	0.051	U
1,3-Butadiene	0.456		0.442	U	0.442	U	0.442	U	0.442	U	0.442	U
Bromomethane	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloroethane	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U
Ethanol	9.42	U	9.42	U	9.42	U	9.42	U	10.6		12.1	
Vinyl bromide	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
Acetone	72.9		45.8		3.14		3.82		4.63		5.8	
Trichlorofluoromethane	1.12	U	1.12	U	1.12	U	1.12	U	1.12	U	1.12	U
Isopropanol	1.24		1.23	U	1.25		1.82		1.45		1.53	
1,1-Dichloroethene	0.793	U	0.793	U	0.079	U	0.079	U	0.079	U	0.079	U
Tertiary butyl Alcohol	1.72		2.26		1.52	U	1.52	U	1.52	U	1.52	U
Methylene chloride	1.74	U	1.74	U	1.74	U	1.74	U	7.82		1.74	U
3-Chloropropene	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
Carbon disulfide	0.623	U	0.869		0.623	U	0.623	U	0.623	U	0.623	U
Freon-113	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
trans-1,2-Dichloroethene	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
1,1-Dichloroethane	0.809	U	0.935		0.809	U	0.809	U	0.809	U	0.809	U
Methyl tert butyl ether	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
2-Butanone	7.61		1.95		1.47	U	1.47	U	1.47	U	1.47	U
cis-1,2-Dichloroethene	0.793	U	5.59		0.079	U	0.079	U	0.079	U	0.079	U
Ethyl Acetate	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.88	
Chloroform	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U
Tetrahydrofuran	1.47	U	1.47	U	1.47	U	1.47	U	3.45		1.47	U
1,2-Dichloroethane	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
n-Hexane	16.8		2.81		0.775		1.05		6.17		1.48	
1,1,1-Trichloroethane	1.09	U	4.2		0.109	U	0.109	U	0.109	U	0.109	U
Benzene	2.27		1.89		0.971		0.958		1.19		1.02	
Carbon tetrachloride	1.26	U	1.26	U	0.39		0.434		0.428		0.359	
Cyclohexane	34.8		1.51		0.688	U	0.688	U	0.688	U	0.688	U
1,2-Dichloropropane	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
Xylene (total)	37.1		42		0.869	U	0.869	U	0.869	U	2.14	
Bromodichloromethane	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
1,4-Dioxane	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Trichloroethene	1.07	U	53.6		0.107	U	0.107	U	0.107	U	0.107	U
2,2,4-Trimethylpentane	9.43		3.03		0.934	U	0.934	U	0.934	U	0.934	U
Heptane	5.12		4.47		0.82	U	0.82	U	0.82	U	0.82	U
cis-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
4-Methyl-2-pentanone	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U
trans-1,3-Dichloropropene	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,1,2-Trichloroethane	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Toluene	48.2		48.6		1.78		1.82		4.3		4.56	
1,2-Dichloroethene (total)	0.793	U	5.59		0.793	U	0.793	U	0.793	U	0.793	U
2-Hexanone	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
Dibromochloromethane	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
1,3-Dichloropropene, Total	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,2-Dibromoethane	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
Tetrachloroethene	1.55		285		0.468		0.529		0.488		0.481	
Chlorobenzene	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Ethylbenzene	8.12		8.56		0.869	U	1.46		0.869	U	0.869	U
p/m-Xylene	26.1		29.6		1.74	U	1.74	U	1.74	U	2.14	
Bromoform	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Styrene	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U
1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
o-Xylene	11.1		12.4		0.869	U	0.869	U	0.869	U	0.869	U
4-Ethyltoluene	2.93		2.66		0.983	U	0.983	U	0.983	U	0.983	U
1,3,5-Trimethylbenzene	2.42		3.12		0.983	U	0.983	U	0.983	U	0.983	U
1,2,4-Trimethylbenzene	8.9		11.6		0.983	U	0.983	U	0.983	U	0.983	U
Benzyl chloride	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
1,3-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,4-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dichlorobenzene	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
Hexachlorobutadiene	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U

Abbreviation:
U = The compound was analyzed for, but not detected
Q = Qualifier

Notes:
Air samples collected over a period of 8 hours.

TABLE 9
Summary of VOCs in Indoor Air and Sub-Slab Soil Vapor

1801 Falmouth Avenue
New Hyde Park, New York

Sample ID:	IA-1 (145 Denton)		IA-2 (1807 Gilford)		NYSDOH Indoor Air	NYSDOH Indoor Air	SS-1 (145 Denton)		SS-2 (1807 Gilford)		NYSDOH Sub-Slab Vapor	NYSDOH Sub-Slab Vapor	NYSDOH Table 3.1
Sample Date:	12/19/18		12/19/18		No Further Action Levels	Mitigation Levels	12/19/18		12/19/19		No Further Action Levels	Mitigation Levels	Air Guideline Value
Volatile Organic Compounds													
Units	µg/m³	Q	µg/m³	Q	µg/m³	µg/m³	µg/m³	Q	µg/m³	Q	µg/m³	µg/m³	µg/m³
Dichlorodifluoromethane	2.11		2.24		NVG	NVG	2.14		2.88		NVG	NVG	NVG
Chloromethane	1.01		1.22		NVG	NVG	0.688	U	0.438		NVG	NVG	NVG
Freon-114	1.4	U	1.4	U	NVG	NVG	2.33	U	1.4	U	NVG	NVG	NVG
Vinyl chloride [C]	0.051	U	0.051	U	< 0.2	> 0.2	0.851	U	0.511	U	< 6	> 60	NVG
1,3-Butadiene	1.88		0.442	U	NVG	NVG	0.737	U	0.442	U	NVG	NVG	NVG
Bromomethane	0.777	U	0.777	U	NVG	NVG	1.29	U	0.777	U	NVG	NVG	NVG
Chloroethane	0.528	U	0.528	U	NVG	NVG	0.879	U	0.528	U	NVG	NVG	NVG
Ethanol	119		25.6		NVG	NVG	15.7	U	9.42	U	NVG	NVG	NVG
Vinyl bromide	0.874	U	0.874	U	NVG	NVG	1.46	U	0.874	U	NVG	NVG	NVG
Acetone	110		24.5		NVG	NVG	26.1		8.34		NVG	NVG	NVG
Trichlorofluoromethane	1.12	U	1.13		NVG	NVG	1.87	U	1.23		NVG	NVG	NVG
Isopropanol	4.79		5.48		NVG	NVG	2.38		3		NVG	NVG	NVG
1,1-Dichloroethene [A]	0.079	U	0.079	U	< 0.2	> 1	1.32	U	0.793	U	< 6	> 60	NVG
Tertiary butyl Alcohol	1.52	U	1.52	U	NVG	NVG	2.53	U	1.52	U	NVG	NVG	NVG
Methylene chloride [B]	1.74	U	2.45		< 3	> 10	2.9	U	1.74	U	< 100	<1,000	60
3-Chloropropene	0.626	U	0.626	U	NVG	NVG	1.04	U	0.626	U	NVG	NVG	NVG
Carbon disulfide	0.623	U	0.623	U	NVG	NVG	1.04	U	0.623	U	NVG	NVG	NVG
Freon-113	1.53	U	1.53	U	NVG	NVG	2.55	U	1.53	U	NVG	NVG	NVG
trans-1,2-Dichloroethene	0.793	U	0.793	U	NVG	NVG	1.32	U	0.793	U	NVG	NVG	NVG
1,1-Dichloroethane	0.809	U	0.809	U	NVG	NVG	1.35	U	0.809	U	NVG	NVG	NVG
Methyl tert butyl ether	0.721	U	0.721	U	NVG	NVG	1.2	U	0.721	U	NVG	NVG	NVG
2-Butanone	13.4		2.41		NVG	NVG	2.46	U	1.47	U	NVG	NVG	NVG
cis-1,2-Dichloroethene [A]	0.079	U	0.079	U	< 0.2	> 1	1.32	U	0.793	U	< 6	> 60	NVG
Ethyl Acetate	3.42		2.79		NVG	NVG	3.01	U	1.8	U	NVG	NVG	NVG
Chloroform	0.977	U	0.977	U	NVG	NVG	1.63	U	0.977	U	NVG	NVG	NVG
Tetrahydrofuran	1.47	U	1.47	U	NVG	NVG	2.46	U	1.47	U	NVG	NVG	NVG
1,2-Dichloroethane	0.809	U	3.33		NVG	NVG	1.35	U	2.06		NVG	NVG	NVG
n-Hexane	38.8		7.82		NVG	NVG	1.17	U	4.26		NVG	NVG	NVG
1,1,1-Trichloroethane [B]	0.109	U	1.23		< 3	> 10	9.82		27.6		< 100	<1,000	NVG
Benzene	11.7		2.96		NVG	NVG	1.06	U	1.69		NVG	NVG	NVG
Carbon tetrachloride [A]	0.403		0.371		< 0.2	> 1	2.09	U	1.26	U	< 6	> 60	NVG
Cyclohexane	38.9		1.28		NVG	NVG	1.15	U	0.706		NVG	NVG	NVG
1,2-Dichloropropane	0.924	U	0.924	U	NVG	NVG	1.54	U	0.924	U	NVG	NVG	NVG
Xylene (total)	36.2		23		NVG	NVG	1.45	U	9.08		NVG	NVG	NVG
Bromodichloromethane	1.34	U	1.34	U	NVG	NVG	2.23	U	1.34	U	NVG	NVG	NVG
1,4-Dioxane	0.721	U	0.721	U	NVG	NVG	1.2	U	0.721	U	NVG	NVG	NVG
Trichloroethene [A]	0.107	U	2.17		< 0.2	> 1	3.56		59.1		< 6	> 60	2
2,2,4-Trimethylpentane	0.934	U	0.934	U	NVG	NVG	1.56	U	0.934	U	NVG	NVG	NVG
Heptane	186		1.58		NVG	NVG	2.47		0.82	U	NVG	NVG	NVG
cis-1,3-Dichloropropene	0.908	U	0.908	U	NVG	NVG	1.51	U	0.908	U	NVG	NVG	NVG
4-Methyl-2-pentanone	6.97		2.05	U	NVG	NVG	3.42	U	2.05	U	NVG	NVG	NVG
trans-1,3-Dichloropropene	0.908	U	0.908	U	NVG	NVG	1.51	U	0.908	U	NVG	NVG	NVG
1,1,2-Trichloroethane	1.09	U	1.09	U	NVG	NVG	1.82	U	1.09	U	NVG	NVG	NVG
Toluene	403	R	71.6		NVG	NVG	10.7	J	35.1		NVG	NVG	NVG
1,2-Dichloroethene (total)	0.793	U	0.793	U	NVG	NVG	1.32	U	0.793	U	NVG	NVG	NVG
2-Hexanone	0.82	U	0.82	U	NVG	NVG	1.36	U	0.82	U	NVG	NVG	NVG
Dibromochloromethane	1.7	U	1.7	U	NVG	NVG	2.84	U	1.7	U	NVG	NVG	NVG
1,3-Dichloropropene, Total	0.908	U	0.908	U	NVG	NVG	1.51	U	0.908	U	NVG	NVG	NVG
1,2-Dibromoethane	1.54	U	1.54	U	NVG	NVG	2.56	U	1.54	U	NVG	NVG	NVG
Tetrachloroethene [B]	2.19		11.7		< 3	> 10	593		579		< 100	<1,000	30
Chlorobenzene	0.921	U	0.921	U	NVG	NVG	1.53	U	0.921	U	NVG	NVG	NVG
Ethylbenzene	7.12		8.12		NVG	NVG	1.45	U	3.47		NVG	NVG	NVG
p/m-Xylene	27.5		16.7		NVG	NVG	2.9	U	6.04		NVG	NVG	NVG
Bromoform	2.07	U	2.07	U	NVG	NVG	3.44	U	2.07	U	NVG	NVG	NVG
Styrene	2		13.5		NVG	NVG	1.42	U	2.58		NVG	NVG	NVG
1,1,2,2-Tetrachloroethane	1.37	U	1.37	U	NVG	NVG	2.29	U	1.37	U	NVG	NVG	NVG
o-Xylene	8.73		6.34		NVG	NVG	1.45	U	3.04		NVG	NVG	NVG
4-Ethyltoluene	1.4		0.983	U	NVG	NVG	1.64	U	0.983	U	NVG	NVG	NVG
1,3,5-Trimethylbenzene	2.08		0.983	U	NVG	NVG	1.64	U	0.983	U	NVG	NVG	NVG
1,2,4-Trimethylbenzene	7.82		1.89		NVG	NVG	1.64	U	0.983	U	NVG	NVG	NVG
Benzyl chloride	1.04	U	1.04	U	NVG	NVG	1.72	U	1.04	U	NVG	NVG	NVG
1,3-Dichlorobenzene	1.2	U	1.2	U	NVG	NVG	2	U	1.2	U	NVG	NVG	NVG
1,4-Dichlorobenzene	1.2	U	1.2	U	NVG	NVG	2	U	1.2	U	NVG	NVG	NVG
1,2-Dichlorobenzene	1.2	U	1.2	U	NVG	NVG	2	U	1.2	U	NVG	NVG	NVG
1,2,4-Trichlorobenzene	1.48	U	1.48	U	NVG	NVG	2.47	U	1.48	U	NVG	NVG	NVG
Hexachlorobutadiene	2.13	U	2.13	U	NVG	NVG	3.55	U	2.13	U	NVG	NVG	NVG

Abbreviation:
U = The compound was analyzed for, but not detected
Q = Qualifier
NVG = No Value Given by NYSDOH
J = The result is an estimated quantity
R = The data are unusable

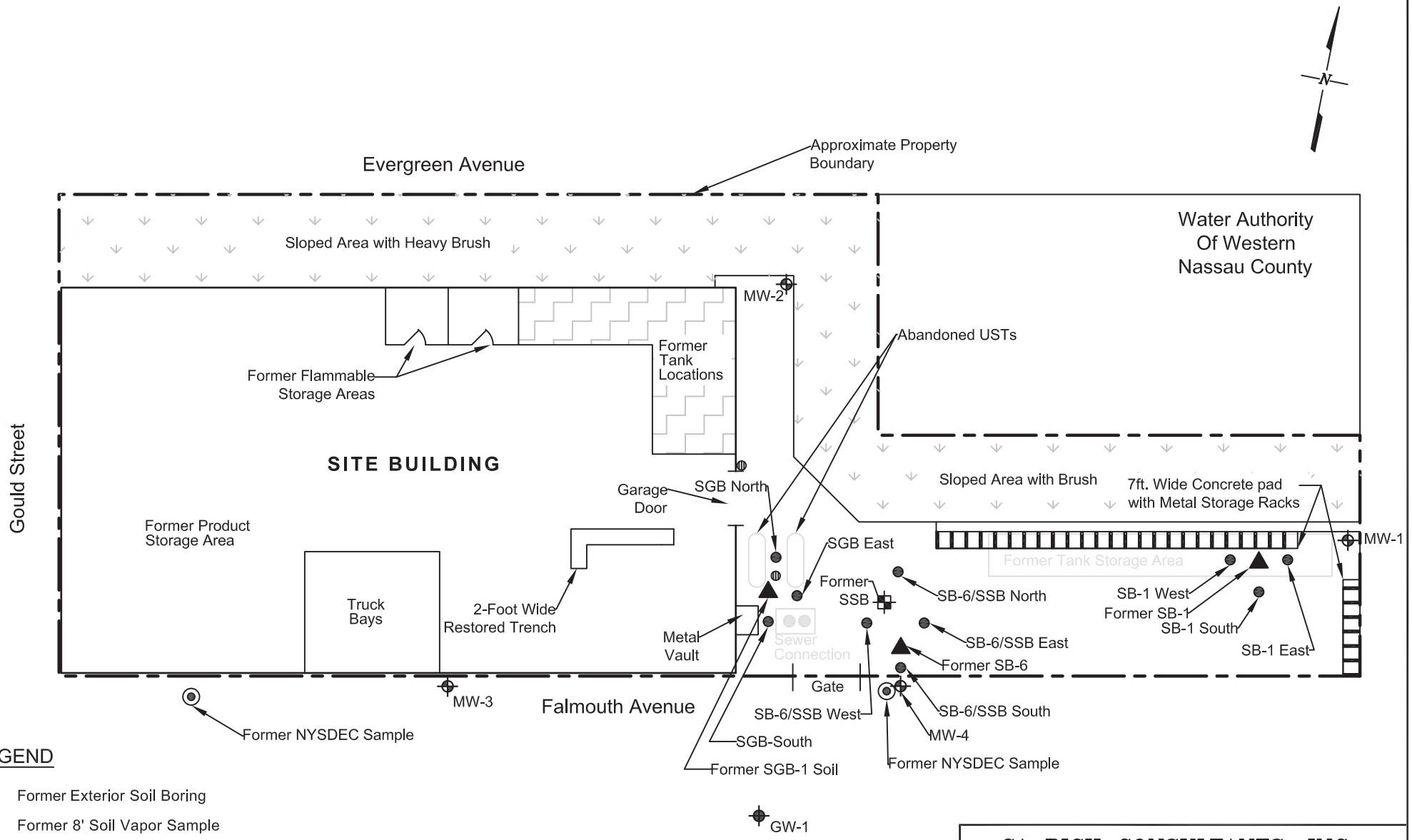
Notes:
Highlighted rows are the 8 compounds that currently have NYSDOH guidance values
Air samples collected over a period of 8 hours.

145 Denton - is in the "No further action" range for all compounds.
1807 Gilford - is in the "Mitigate" range for Trichloroethene and Tetrachloroethene.

[A] - Matrix A compounds. According to NYSDOH, concentrations for indoor air below 0.20 ug/m³ require 'No Further Action' and concentrations above 1.0 ug/m³ require 'Identify Source(s) and Resample or Mitigate'
Concentrations for sub-slab vapor below 6.0 µg/m³ require 'No Further Action' and concentrations above 60 µg/m³ require 'Mitigation'

[B] - Matrix B compounds. According to NYSDOH, concentrations for indoor air below 3.0 ug/m³ require 'No Further Action' and concentrations above 10 ug/m³ require 'Identify Source(s) and Resample or Mitigate'
Concentrations for sub-slab vapor below 100 ug/m³ require 'No Further Action' and concentrations above 1000 ug/m³ require 'Mitigation'

C - Matrix C compound. According to NYSDOH, concentration for indoro air below 0.20 ug/m ^{3} require 'No Further Action and concentrations above 0.2 ug/m^3 require 'Identify Source(s) and Resample or Mitigate'
Concentrations for sub-slab vapor below 6.0 µg/m³ require 'No Further Action' and concentrations above 60 µg/m³ require 'Mitigation'



LEGEND

- Former Exterior Soil Boring
- Former 8' Soil Vapor Sample
- Existing Groundwater Monitoring Well
- Storm Drain
- Soil 12' Boring
- Shallow Groundwater Boring installed down gradient from the former cesspool (across Falmouth Avenue)
- Former NYSDEC Sample

0 20 40 60
Graphic Scale In Feet

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Soil and Groundwater Sample Delineation Location Map		DATE: 1/11/2019
		SCALE: As Shown
FIGURE: 5	Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2019-2		APPR. BY: J.E.P.

H:\Drawings\Seaboard Estates-Zoe Chemical\2019-2



CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: Off-Site Soil Vapor Evaluation Sample Locations		DATE: 1/11/2019
		SCALE: As Shown
FIGURE: 6	Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY	DRAWN BY: T.R.B.
DRAWING NO: 2019-1		APPR. BY: J.E.P.

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February 5, 2019

Current Owner/Occupant
145 Denton Avenue
New Hyde Park, NY 11040

Re: **Indoor and Sub-Slab Vapor Testing**
145 Denton Avenue
New Hyde Park, NY

To Whom It May Concern:

On December 19, 2018, CA Rich Consultants, Inc. (CA RICH) collected air samples from beneath, within and outside of the building located at the above referenced property. The samples were collected as part of an on-going environmental investigation at the 1801 Falmouth Avenue property where elevated concentrations of VOC 1,1,1-trichloroethane was identified. The purpose of this letter is to transmit the results of the sampling event that was performed at your property. The sampling assesses the potential for volatile organic compounds (VOCs) in soil vapor to enter the building and impact the quality of the indoor air through a process called soil vapor intrusion (see the enclosed fact sheet).

The sampling consisted of:

- Installation of one temporary sub-slab soil vapor monitoring point in the buildings warehouse; and
- Collection of one indoor air sample and one outdoor air sample concurrent with the sub-slab vapor samples.

We have reviewed the sampling data from your facility. The New York State Department of Health (NYSDOH) and the New York State Department of Environmental Conservation (NYSDEC) have also been provided this data (please see attached data).

The NYSDOH Decision Matrix Tables A, B, and C were utilized to evaluate the sample results. The “decision matrices” have guideline levels for only eight compounds (Methylene chloride, Vinyl chloride, 1,1-Dichloroethene, cis-12-Dichloroethene, 1,1,1-Trichloroethane, Carbon tetrachloride, Trichloroethene and Tetrachloroethene) and use the sub-slab soil vapor and indoor air concentrations for comparison to determine the quality of the air and the appropriate action to take when elevated levels are encountered.

Sample results at your property did not identify any exceedances in any of the compounds, and therefore, their concentrations fall the “no further action” range. This means no additional actions are needed to be addressed.

Additionally, the indoor air results were also compared to NYSDOH Air Guideline Values. Results indicate that no VOC compounds were identified exceeding their air guidelines values.

Environmental Conservation Law 27-2405 requires property owners or owners' agents (such as landlords) to notify all of their tenants and occupants of any test results related to soil vapor intrusion that they receive from certain persons and entities. The law applies to both residential and non-residential properties. Information regarding this obligation can be found at: http://www.dec.ny.gov/regulations/55739.html. Additionally, the NYSDOH website www.health.state.ny.us/environmental/indoors/vapor_intrusion can also be a resource for information on frequently asked questions relating to soil vapor intrusion or exposures.

If you have any questions or wish to discuss your results further, please contact Mark Sergott of the NYSDOH at (518) 402-7860, or Brian Jankauskas of the NYSDEC at (518) 402-9626.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

Enclosures

Brian Jankauskas NYSDEC
Mark Sergott NYSDOH
Laurence Gordon
Michael G. Murphy, Esq.
John H. Paul, Esq.

NEW YORK STATE
DEPARTMENT OF HEALTH

SOIL VAPOR INTRUSION

Frequently Asked Questions

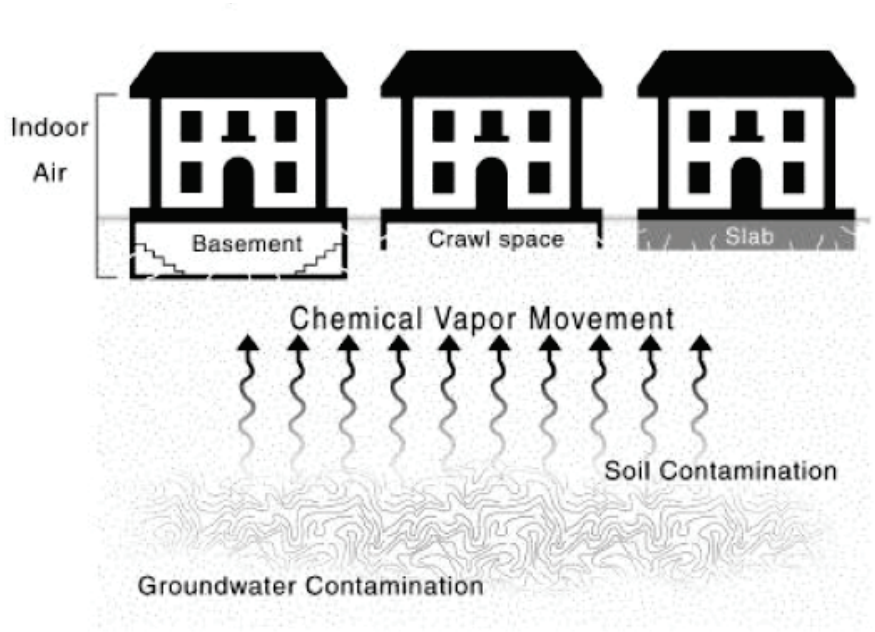
What is soil vapor intrusion?

The phrase "soil vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying buildings.

Soil vapor, or soil gas, is the air found in the pore spaces between soil particles. Because of a difference in pressure, soil vapor enters buildings through cracks in slabs or basement floors and walls, and through openings around sump pumps or where pipes and electrical wires go through the foundation. Heating, ventilation or air-conditioning systems may create a negative pressure that can draw soil vapor into the building. This intrusion is similar to how radon gas seeps into buildings.

Soil vapor can become contaminated when chemicals evaporate from subsurface sources and enter the soil vapor. Chemicals that readily evaporate are called "volatile chemicals." Volatile chemicals include volatile organic compounds (VOCs). Subsurface sources of volatile chemicals may include contaminated soil and groundwater, or buried wastes. If soil vapor is contaminated, and enters a building as described above, indoor air quality may be affected.

When contaminated vapors are present in the zone directly next to or under the foundation of the building, vapor intrusion is possible. Soil vapor can enter a building whether it is old or new, or whether it has a basement, a crawl space, or is on a slab (as illustrated in the figure).



[Source: United States Environmental Protection Agency, Region 3]

How am I exposed to chemicals through soil vapor intrusion?

Humans can be exposed to soil vapor contaminated with volatile chemicals when vapors from beneath a building are drawn through cracks and openings in the foundation and mix with the indoor air. Inhalation is the route of exposure, or the manner in which the volatile chemicals actually enter the body, once in the indoor air.

Current exposures are when vapor intrusion is documented in an occupied building. *Potential* exposures are when volatile chemicals are present, or are accumulating, in the vapor phase beneath a building, but have not affected indoor air quality. Potential exposures also exist when there is a chance that contaminated soil vapors may move to existing buildings not currently affected or when there is a chance that new buildings can be built over existing subsurface vapor contamination. Both current and potential exposures are considered when evaluating soil vapor intrusion at a site that has documented subsurface sources of volatile chemicals.

In general, exposure to a volatile chemical does not necessarily mean that health effects will occur. Whether or not a person experiences health effects depends on several factors, including inhalation exposure, the length of exposure (short-term or acute versus long-term or chronic), the frequency of exposure, the toxicity of the volatile chemical, and the individual's sensitivity to the chemical.

What types of chemicals associated with environmental contamination may be entering my home via soil vapor intrusion?

Volatile organic compounds, or VOCs, are the most likely group of chemicals found in soil vapor, and which can move through the soil and enter buildings. Solvents used for dry cleaning, degreasing and other industrial purposes (e.g., tetrachloroethene, trichloroethene, 1,1,1-trichloroethane and Freon 113) are examples of VOCs. Examples of petroleum-related VOCs from petroleum spills are benzene, toluene, ethyl benzene, xylenes, styrene, hexane and trimethylbenzenes.

Is contaminated soil vapor the only source of volatile chemicals in my indoor air?

No. Volatile chemicals are also found in many household products. Paints, paint strippers and thinners, mineral spirits, glues, solvents, cigarette smoke, aerosol sprays, mothballs, air fresheners, new carpeting or furniture, hobby supplies, lubricants, stored fuels, refrigerants and recently dry-cleaned clothing all contain VOCs. Household products are often more of a source of VOCs in indoor air in homes than contaminated soil vapor.

Indoor air may also become affected when outdoor air containing volatile chemicals enters your home. Volatile chemicals are present in outdoor air due to their widespread use. Gasoline stations, dry cleaners, and other commercial/industrial facilities are important sources of VOCs to outdoor air.

What should I expect if soil vapor intrusion is a concern near my home?

If you live near a site that has documented soil, groundwater and/or soil vapor contaminated with volatile chemicals, you should expect that the potential for vapor intrusion is being, or has been, investigated. You may be contacted by the site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being done. You can also contact the NYSDOH's project manager for the site at 1-800-458-1158 (extension 2-7850) for additional information.

How is soil vapor intrusion investigated at sites contaminated with volatile chemicals?

The process of investigating soil vapor intrusion typically requires more than one set of samples to determine the extent of vapor contamination. Furthermore, four types of environmental samples are collected: soil vapor samples, sub-slab vapor samples, indoor air samples and outdoor air (sometimes referred to as "ambient air") samples.

Soil vapor samples are collected to characterize the nature and extent of vapor contamination in the soil in a given area. They are often collected before sub-slab vapor and/or indoor air samples to help identify buildings or groups of buildings that need to be sampled. Soil vapor samples are used to determine the *potential* for human exposures. *Soil vapor* samples are not the same as *soil* samples.

Sub-slab vapor samples are collected to characterize the nature and extent of vapor contamination in the soil immediately beneath a building with basement foundations or a slab. Sub-slab vapor results are used to determine the potential for *current* and *future* human exposures. For example, an exposure could occur in the future if cracks develop in the building's foundation or changes in the operation of the building's heating, ventilation or air-conditioning system are made that make the movement of contaminated soil vapor into the building possible.

Indoor air samples are collected to characterize the nature and extent of air contamination within a building. Indoor air sample results help to evaluate whether there are *current* human exposures. They are also compared to sub-slab vapor and outdoor air results to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).

Outdoor air samples are collected to characterize site-specific background air conditions. Outdoor air results are used to evaluate the extent to which outdoor sources, such as automobiles, lawn mowers, oil storage tanks, gasoline stations, commercial/industrial facilities, and so forth, may be affecting indoor air quality.

What should I expect if indoor air samples are collected in my home?

You should expect the following:

- Indoor air samples are generally collected from the lowest-level space in a building, typically a basement, during the heating season. Indoor air samples may also be collected from the first floor of living space. Indoor air is believed to represent the greatest exposure potential with respect to soil vapor intrusion.
- Sub-slab vapor and outdoor air samples are usually collected at the same time as indoor air samples to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).
- More limited sampling may be performed outside of the heating season. For example, sub-slab vapor samples without indoor air or outdoor air samples may be collected to identify buildings and areas where comprehensive sampling is needed during the heating season.
- An indoor air quality questionnaire and building inventory will be completed. The questionnaire includes a summary of the building's construction characteristics; the building's heating, ventilation and air-conditioning system operations; and potential indoor and outdoor sources of volatile chemicals. The building inventory describes products present in the building that might contain volatile chemicals. In addition, we take monitoring readings from a real-time organic vapor meter (also known as a photoionization detector or PID). The PID is an instrument that detects many VOCs in the air. When indoor air samples are collected, the PID is used to help determine whether

products containing VOCs might be contributing to levels that are detected in the indoor air.

What happens if soil vapor contamination or soil vapor intrusion is identified during investigation of a site?

Depending on the investigation results, additional sampling, monitoring or mitigation actions may be recommended. Additional sampling may be performed to determine the extent of soil vapor contamination and to verify questionable results. Monitoring (sampling on a recurring basis) is typically conducted if there is a significant potential for vapor intrusion to occur should building conditions change. Mitigation steps are taken to minimize exposures associated with soil vapor intrusion. Mitigation may include sealing cracks in the building's foundation, adjusting the building's heating, ventilation and air-conditioning system to maintain a positive pressure to prevent infiltration of subsurface vapors, or installing a sub-slab depressurization system beneath the building.

What is a sub-slab depressurization system?

A sub-slab depressurization system, much like a radon mitigation system, essentially prevents vapors beneath a slab from entering a building. A low amount of suction is applied below the foundation of the building and the vapors are vented to the outside (see illustration). The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also essentially prevents radon from entering a building, an added health benefit. The party responsible for cleaning up the source of the soil vapor contamination is usually responsible for paying for the installation of this system. If no responsible party is available, New York State will install the system. Once the contamination is cleaned up, the system should no longer be needed. In areas where radon is a problem, the NYSDOH recommends that these systems remain in place permanently.

What else can I do to improve my indoor air quality?

Household products and other factors, such as mold growth, carbon monoxide, and radon, can degrade the quality of air in your home. Consider the following tips to improve indoor air quality:

- Be aware of household products that contain VOCs. Do not buy more chemicals than you need at a time.
- Store unused chemicals in tightly-sealed containers in a well-ventilated location, preferably away from the living space in your home.
- Keep your home properly ventilated. Keeping it too air-tight may promote build up of chemicals in the air, as well as mold growth due to the build up of moisture.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure your heating system, hot water, dryer and fireplaces are properly vented and in good condition. Have your furnace or boiler checked annually by a professional.
- Test your home for radon; take actions to reduce radon levels if needed.
- Install carbon monoxide detectors in your home; take immediate actions to reduce carbon monoxide levels if needed.

Where can I get more information?

For additional information about soil vapor intrusion, contact the NYSDOH's Bureau of Environmental Exposure Investigation at 1-800-458-1158 (extension 2-7850).

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-06
Client ID: IA-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:32
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/02/19 19:45
Analyst: EW

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.427	0.200	--	2.11	0.989	--		1
Chloromethane	0.489	0.200	--	1.01	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.849	0.200	--	1.88	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	62.9	5.00	--	119	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	46.1	1.00	--	110	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	1.95	0.500	--	4.79	1.23	--		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	4.56	0.500	--	13.4	1.47	--		1
Ethyl Acetate	0.948	0.500	--	3.42	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

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Client ID: IA-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:32
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	11.0	0.200	--	38.8	0.705	--		1
Benzene	3.65	0.200	--	11.7	0.639	--		1
Cyclohexane	11.3	0.200	--	38.9	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	45.4	0.200	--	186	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.70	0.500	--	6.97	2.05	--		1
Xylene (Total)	8.34	0.200	--	36.2	0.869	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	107	0.200	--	403	0.754	--	E	1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.64	0.200	--	7.12	0.869	--		1
p/m-Xylene	6.32	0.400	--	27.5	1.74	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.470	0.200	--	2.00	0.852	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-06
Client ID: IA-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:32
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	2.01	0.200	--	8.73	0.869	--		1
4-Ethyltoluene	0.284	0.200	--	1.40	0.983	--		1
1,3,5-Trimethylbenzene	0.423	0.200	--	2.08	0.983	--		1
1,2,4-Trimethylbenzene	1.59	0.200	--	7.82	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	97		60-140
chlorobenzene-d5	99		60-140

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-06
Client ID: IA-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:32
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/02/19 19:45
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.323	0.020	--	2.19	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	96		60-140

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-06 D
Client ID: IA-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:32
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/03/19 08:17
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Toluene	113	0.400	--	426	1.51	--		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	88		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-03 D
Client ID: SS-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/03/19 02:54
Analyst: EW

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.433	0.333	--	2.14	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	ND	0.333	--	ND	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	11.0	1.67	--	26.1	3.97	--		1.667
Trichlorofluoromethane	ND	0.333	--	ND	1.87	--		1.667
iso-Propyl Alcohol	0.967	0.834	--	2.38	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	ND	0.333	--	ND	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	ND	0.333	--	ND	1.32	--		1.667

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-03 D
Client ID: SS-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	1.80	0.333	--	9.82	1.82	--		1.667
Benzene	ND	0.333	--	ND	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	0.663	0.333	--	3.56	1.79	--		1.667
2,2,4-Trimethylpentane	ND	0.333	--	ND	1.56	--		1.667
Heptane	0.602	0.333	--	2.47	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	2.84	0.333	--	10.7	1.25	--		1.667
1,2-Dichloroethene (total)	ND	0.333	--	ND	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: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-03 D
Client ID: SS-1 (145 DENTON)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 04:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	87.4	0.333	--	593	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	95		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	96		60-140

February 5, 2019

Current Owner/Occupant
1807 Gilford Avenue
New Hyde Park, NY 11040

Attention: Albert Zandi

Re: **Indoor and Sub-Slab Vapor Testing**
1807 Gilford Avenue
New Hyde Park, NY

Mr. Albert Zandi:

On December 19, 2018, CA Rich Consultants, Inc. (CA RICH) collected air samples from beneath, within and outside of the building located at the above referenced property. The samples were collected as part of an on-going environmental investigation at the 1801 Falmouth Avenue property where elevated concentrations of VOC 1,1,1-trichloroethane was identified. The purpose of this letter is to transmit the results of the sampling event that was performed at your property. The sampling assesses the potential for volatile organic compounds (VOCs) in soil vapor to enter the building and impact the quality of the indoor air through a process called soil vapor intrusion (see the enclosed fact sheet).

The sampling consisted of:

- Installation of one temporary sub-slab soil vapor monitoring point in the buildings warehouse; and
- Collection of one indoor air sample and one outdoor air sample concurrent with the sub-slab vapor samples.

We have reviewed the sampling data from your facility. The New York State Department of Health (NYSDOH) and the New York State Department of Environmental Conservation (NYSDEC) have also been provided this data.

The NYSDOH Decision Matrix Tables A, B, and C were utilized to evaluate the sample results. The “decision matrices” have guideline levels for only eight compounds (Methylene chloride, Vinyl chloride, 1,1-Dichloroethene, cis-12-Dichloroethene, 1,1,1-Trichloroethane, Carbon tetrachloride, Trichloroethene and Tetrachloroethene) and use the sub-slab soil vapor and indoor air concentrations for comparison to determine the quality of the air and the appropriate action to take when elevated levels are encountered.

Sample results at your property identified VOCs Trichloroethene and Tetrachloroethene exceeding the decision matrices. These compounds fall in the “mitigation” range which includes minimizing current and potential exposures.

Additionally, the indoor air results were also compared to NYSDOH Air Guideline Values. Results indicate that Trichloroethene was identified exceeding its air guidelines value, however, Tetrachloroethene did not exceed its air guideline value. These exceedances are most likely attributed to the historical use of your property.

Environmental Conservation Law 27-2405 requires property owners or owners' agents (such as landlords) to notify all of their tenants and occupants of any test results related to soil vapor intrusion that they receive from certain persons and entities. The law applies to both residential and non-residential properties. Information regarding this obligation can be found at: http://www.dec.ny.gov/regulations/55739.html. Additionally, the NYSDOH website www.health.state.ny.us/environmental/indoors/vapor_intrusion can also be a resource for information on frequently asked questions relating to soil vapor intrusion or exposures.

If you have any questions or wish to discuss your results further, please contact Mark Sergott of the NYSDOH at (518) 402-7860, or Brian Jankauskas of the NYSDEC at (518) 402-9626.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

Enclosures

Brian Jankauskas NYSDEC
Mark Sergott NYSDOH
Laurence Gordon
Michael G. Murphy, Esq.
John H. Paul, Esq.

NEW YORK STATE
DEPARTMENT OF HEALTH

SOIL VAPOR INTRUSION

Frequently Asked Questions

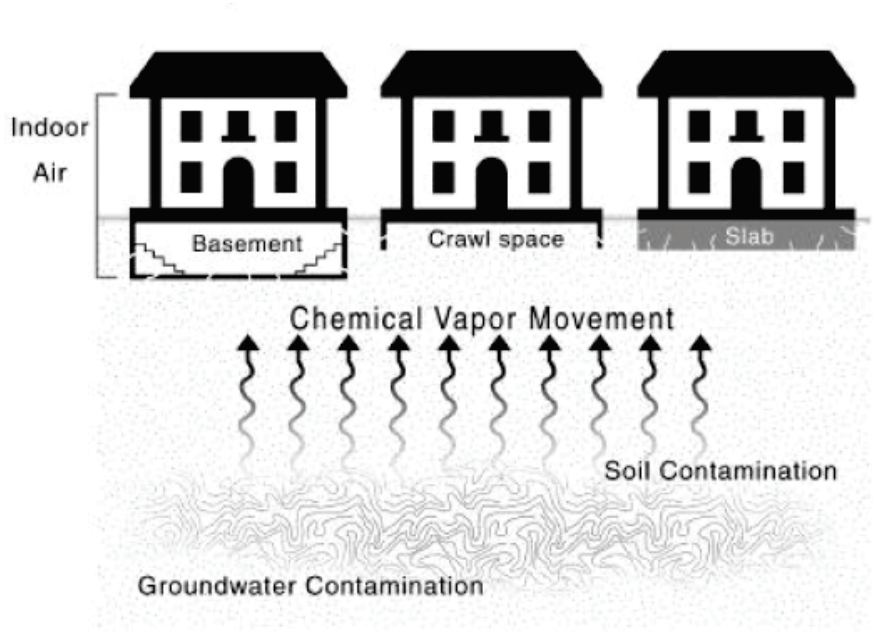
What is soil vapor intrusion?

The phrase "soil vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying buildings.

Soil vapor, or soil gas, is the air found in the pore spaces between soil particles. Because of a difference in pressure, soil vapor enters buildings through cracks in slabs or basement floors and walls, and through openings around sump pumps or where pipes and electrical wires go through the foundation. Heating, ventilation or air-conditioning systems may create a negative pressure that can draw soil vapor into the building. This intrusion is similar to how radon gas seeps into buildings.

Soil vapor can become contaminated when chemicals evaporate from subsurface sources and enter the soil vapor. Chemicals that readily evaporate are called "volatile chemicals." Volatile chemicals include volatile organic compounds (VOCs). Subsurface sources of volatile chemicals may include contaminated soil and groundwater, or buried wastes. If soil vapor is contaminated, and enters a building as described above, indoor air quality may be affected.

When contaminated vapors are present in the zone directly next to or under the foundation of the building, vapor intrusion is possible. Soil vapor can enter a building whether it is old or new, or whether it has a basement, a crawl space, or is on a slab (as illustrated in the figure).



[Source: United States Environmental Protection Agency, Region 3]

How am I exposed to chemicals through soil vapor intrusion?

Humans can be exposed to soil vapor contaminated with volatile chemicals when vapors from beneath a building are drawn through cracks and openings in the foundation and mix with the indoor air. Inhalation is the route of exposure, or the manner in which the volatile chemicals actually enter the body, once in the indoor air.

Current exposures are when vapor intrusion is documented in an occupied building. *Potential* exposures are when volatile chemicals are present, or are accumulating, in the vapor phase beneath a building, but have not affected indoor air quality. Potential exposures also exist when there is a chance that contaminated soil vapors may move to existing buildings not currently affected or when there is a chance that new buildings can be built over existing subsurface vapor contamination. Both current and potential exposures are considered when evaluating soil vapor intrusion at a site that has documented subsurface sources of volatile chemicals.

In general, exposure to a volatile chemical does not necessarily mean that health effects will occur. Whether or not a person experiences health effects depends on several factors, including inhalation exposure, the length of exposure (short-term or acute versus long-term or chronic), the frequency of exposure, the toxicity of the volatile chemical, and the individual's sensitivity to the chemical.

What types of chemicals associated with environmental contamination may be entering my home via soil vapor intrusion?

Volatile organic compounds, or VOCs, are the most likely group of chemicals found in soil vapor, and which can move through the soil and enter buildings. Solvents used for dry cleaning, degreasing and other industrial purposes (e.g., tetrachloroethene, trichloroethene, 1,1,1-trichloroethane and Freon 113) are examples of VOCs. Examples of petroleum-related VOCs from petroleum spills are benzene, toluene, ethyl benzene, xylenes, styrene, hexane and trimethylbenzenes.

Is contaminated soil vapor the only source of volatile chemicals in my indoor air?

No. Volatile chemicals are also found in many household products. Paints, paint strippers and thinners, mineral spirits, glues, solvents, cigarette smoke, aerosol sprays, mothballs, air fresheners, new carpeting or furniture, hobby supplies, lubricants, stored fuels, refrigerants and recently dry-cleaned clothing all contain VOCs. Household products are often more of a source of VOCs in indoor air in homes than contaminated soil vapor.

Indoor air may also become affected when outdoor air containing volatile chemicals enters your home. Volatile chemicals are present in outdoor air due to their widespread use. Gasoline stations, dry cleaners, and other commercial/industrial facilities are important sources of VOCs to outdoor air.

What should I expect if soil vapor intrusion is a concern near my home?

If you live near a site that has documented soil, groundwater and/or soil vapor contaminated with volatile chemicals, you should expect that the potential for vapor intrusion is being, or has been, investigated. You may be contacted by the site owner or others working on the cleanup with information about the project. Your cooperation and consent would be requested before any testing/sampling would be done on your property. You may ask the person contacting you any questions about the work being done. You can also contact the NYSDOH's project manager for the site at 1-800-458-1158 (extension 2-7850) for additional information.

How is soil vapor intrusion investigated at sites contaminated with volatile chemicals?

The process of investigating soil vapor intrusion typically requires more than one set of samples to determine the extent of vapor contamination. Furthermore, four types of environmental samples are collected: soil vapor samples, sub-slab vapor samples, indoor air samples and outdoor air (sometimes referred to as "ambient air") samples.

Soil vapor samples are collected to characterize the nature and extent of vapor contamination in the soil in a given area. They are often collected before sub-slab vapor and/or indoor air samples to help identify buildings or groups of buildings that need to be sampled. Soil vapor samples are used to determine the *potential* for human exposures. *Soil vapor* samples are not the same as *soil* samples.

Sub-slab vapor samples are collected to characterize the nature and extent of vapor contamination in the soil immediately beneath a building with basement foundations or a slab. Sub-slab vapor results are used to determine the potential for *current* and *future* human exposures. For example, an exposure could occur in the future if cracks develop in the building's foundation or changes in the operation of the building's heating, ventilation or air-conditioning system are made that make the movement of contaminated soil vapor into the building possible.

Indoor air samples are collected to characterize the nature and extent of air contamination within a building. Indoor air sample results help to evaluate whether there are *current* human exposures. They are also compared to sub-slab vapor and outdoor air results to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).

Outdoor air samples are collected to characterize site-specific background air conditions. Outdoor air results are used to evaluate the extent to which outdoor sources, such as automobiles, lawn mowers, oil storage tanks, gasoline stations, commercial/industrial facilities, and so forth, may be affecting indoor air quality.

What should I expect if indoor air samples are collected in my home?

You should expect the following:

- Indoor air samples are generally collected from the lowest-level space in a building, typically a basement, during the heating season. Indoor air samples may also be collected from the first floor of living space. Indoor air is believed to represent the greatest exposure potential with respect to soil vapor intrusion.
- Sub-slab vapor and outdoor air samples are usually collected at the same time as indoor air samples to help determine where volatile chemicals may be coming from (indoor sources, outdoor sources, and/or beneath the building).
- More limited sampling may be performed outside of the heating season. For example, sub-slab vapor samples without indoor air or outdoor air samples may be collected to identify buildings and areas where comprehensive sampling is needed during the heating season.
- An indoor air quality questionnaire and building inventory will be completed. The questionnaire includes a summary of the building's construction characteristics; the building's heating, ventilation and air-conditioning system operations; and potential indoor and outdoor sources of volatile chemicals. The building inventory describes products present in the building that might contain volatile chemicals. In addition, we take monitoring readings from a real-time organic vapor meter (also known as a photoionization detector or PID). The PID is an instrument that detects many VOCs in the air. When indoor air samples are collected, the PID is used to help determine whether

products containing VOCs might be contributing to levels that are detected in the indoor air.

What happens if soil vapor contamination or soil vapor intrusion is identified during investigation of a site?

Depending on the investigation results, additional sampling, monitoring or mitigation actions may be recommended. Additional sampling may be performed to determine the extent of soil vapor contamination and to verify questionable results. Monitoring (sampling on a recurring basis) is typically conducted if there is a significant potential for vapor intrusion to occur should building conditions change. Mitigation steps are taken to minimize exposures associated with soil vapor intrusion. Mitigation may include sealing cracks in the building's foundation, adjusting the building's heating, ventilation and air-conditioning system to maintain a positive pressure to prevent infiltration of subsurface vapors, or installing a sub-slab depressurization system beneath the building.

What is a sub-slab depressurization system?

A sub-slab depressurization system, much like a radon mitigation system, essentially prevents vapors beneath a slab from entering a building. A low amount of suction is applied below the foundation of the building and the vapors are vented to the outside (see illustration). The system uses minimal electricity and should not noticeably affect heating and cooling efficiency. This mitigation system also essentially prevents radon from entering a building, an added health benefit. The party responsible for cleaning up the source of the soil vapor contamination is usually responsible for paying for the installation of this system. If no responsible party is available, New York State will install the system. Once the contamination is cleaned up, the system should no longer be needed. In areas where radon is a problem, the NYSDOH recommends that these systems remain in place permanently.

What else can I do to improve my indoor air quality?

Household products and other factors, such as mold growth, carbon monoxide, and radon, can degrade the quality of air in your home. Consider the following tips to improve indoor air quality:

- Be aware of household products that contain VOCs. Do not buy more chemicals than you need at a time.
- Store unused chemicals in tightly-sealed containers in a well-ventilated location, preferably away from the living space in your home.
- Keep your home properly ventilated. Keeping it too air-tight may promote build up of chemicals in the air, as well as mold growth due to the build up of moisture.
- Fix all leaks promptly, as well as other moisture problems that encourage mold growth.
- Make sure your heating system, hot water, dryer and fireplaces are properly vented and in good condition. Have your furnace or boiler checked annually by a professional.
- Test your home for radon; take actions to reduce radon levels if needed.
- Install carbon monoxide detectors in your home; take immediate actions to reduce carbon monoxide levels if needed.

Where can I get more information?

For additional information about soil vapor intrusion, contact the NYSDOH's Bureau of Environmental Exposure Investigation at 1-800-458-1158 (extension 2-7850).

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-07
Client ID: IA-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:31
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/02/19 21:04
Analyst: EW

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.453	0.200	--	2.24	0.989	--		1
Chloromethane	0.591	0.200	--	1.22	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	13.6	5.00	--	25.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.3	1.00	--	24.5	2.38	--		1
Trichlorofluoromethane	0.201	0.200	--	1.13	1.12	--		1
iso-Propyl Alcohol	2.23	0.500	--	5.48	1.23	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.704	0.500	--	2.45	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	0.818	0.500	--	2.41	1.47	--		1
Ethyl Acetate	0.775	0.500	--	2.79	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

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Client ID: IA-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:31
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	0.823	0.200	--	3.33	0.809	--		1
n-Hexane	2.22	0.200	--	7.82	0.705	--		1
Benzene	0.928	0.200	--	2.96	0.639	--		1
Cyclohexane	0.371	0.200	--	1.28	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.385	0.200	--	1.58	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
Xylene (Total)	5.30	0.200	--	23.0	0.869	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	19.0	0.200	--	71.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.87	0.200	--	8.12	0.869	--		1
p/m-Xylene	3.84	0.400	--	16.7	1.74	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Styrene	3.17	0.200	--	13.5	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

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Project Number: Not Specified

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Report Date: 01/03/19

SAMPLE RESULTS

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Client ID: IA-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:31
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	1.46	0.200	--	6.34	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	0.385	0.200	--	1.89	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	99		60-140

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Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:31
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/02/19 21:04
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.225	0.020	--	1.23	0.109	--		1
Carbon tetrachloride	0.059	0.020	--	0.371	0.126	--		1
Trichloroethene	0.404	0.020	--	2.17	0.107	--		1
Tetrachloroethene	1.72	0.020	--	11.7	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-04
Client ID: SS-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 01/03/19 03:34
Analyst: EW

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.583	0.200	--	2.88	0.989	--		1
Chloromethane	0.212	0.200	--	0.438	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	3.51	1.00	--	8.34	2.38	--		1
Trichlorofluoromethane	0.219	0.200	--	1.23	1.12	--		1
iso-Propyl Alcohol	1.22	0.500	--	3.00	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	ND	0.200	--	ND	0.793	--		1

Project Name: 1801 FALMOUTH AVE.
Project Number: Not Specified

Lab Number: L1852813
Report Date: 01/03/19

SAMPLE RESULTS

Lab ID: L1852813-04
Client ID: SS-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	0.509	0.200	--	2.06	0.809	--		1
n-Hexane	1.21	0.200	--	4.26	0.705	--		1
1,1,1-Trichloroethane	5.06	0.200	--	27.6	1.09	--		1
Benzene	0.530	0.200	--	1.69	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.205	0.200	--	0.706	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
Xylene (Total)	2.09	0.200	--	9.08	0.869	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	11.0	0.200	--	59.1	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	9.31	0.200	--	35.1	0.754	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	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: 1801 FALMOUTH AVE.
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Lab ID: L1852813-04
Client ID: SS-2 (1807 GILFORD)
Sample Location: NEW HYDE PARK, NY

Date Collected: 12/19/18 03:30
Date Received: 12/20/18
Field Prep: Not Specified

Sample 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	85.4	0.200	--	579	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.800	0.200	--	3.47	0.869	--		1
p/m-Xylene	1.39	0.400	--	6.04	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.605	0.200	--	2.58	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.701	0.200	--	3.04	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	90		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	93		60-140

e-mail: JProscia@carichinc.com

December 6, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The soil and groundwater analytical data was imported into tables and compared to NYSDEC guidelines.
- On November 30th, CA RICH performed the third walk through to the surrounding tenants to discuss complying for the December 18, 2018 off-site soil vapor work. The updated access letter worksheet is attached to this Monthly Progress Report.

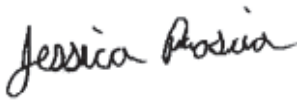
The following will be performed this month:

- Scheduling for the Remedial Investigation off site work (soil vapor) was performed. This work will be performed on December 18, 2018.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

email list

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov

Off Site Soil Vapor Investigation

Access Letter Worksheet

1. **1818 Falmouth Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – tenant not interested in doing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – tenant not interested in doing testing.
    4. Revisited on November 30, 2018 (just CA RICH) – tenant not interested in doing testing.
2. **1840 Falmouth Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – no answer
    3. Revisited on October, 11, 2018 with NYSDEC – no answer
    4. Revisited on November 30, 2018 (just CA RICH) – no answer
3. **135 Denton Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – Tenants administrator sent letter to the owner.
    3. Revisited on October, 11, 2018 with NYSDEC – Tenants administrator sent letter to the owner.
    4. Called owner (HS Denton Realty, LLC) on October 30, 2018 – Left a voicemail.
    5. Spoke with owner of HS Denton Realty, LLC on November 6, 2018 - owner not interested in doing testing.
4. **145 Denton Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Spoke with tenant space owner and tenant space owner's lawyer and they intend to comply.
    3. Spoke with tenant space owner's representative on December 6, 2018 to inform them that the sampling will be performed on December 18th. The representative is letting the tenant know.
5. **1801 Gilford Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – tenant would like to discuss in December.
    3. Revisited on October, 11, 2018 with NYSDEC – tenant would like to discuss in December.
    4. Revisited on November 30, 2018 (just CA RICH) – tenant not interested in doing testing.
6. **1807 Gilford Avenue**
    1. Certified letter sent on July 16, 2018
    2. Site visit on October 1, 2018 with owner – tenant refused to speak to CA RICH.
    3. Revisited on October, 11, 2018 with NYSDEC – tenant would like us to call manager.
    4. Called tenant on October 30, 2018 – spoke with Albert Zandi (super/manager) and they may want to comply.
    5. Revisited on November 30, 2018 (just CA RICH) – Spoke with Albert Zandi (super/manager) to inform them that the sampling will be performed on December 18th. The tenant will comply.

7. **1811 Gilford Avenue**
    1. Certified letter sent on July 16, 2018
    2. Site visit on October 1, 2018 with owner – property is owned by tenant at Quality Ready Mix at 1824 Gilford Avenue. – owner not interested in doing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – spoke to owner at Quality Ready Mix – owner not interested in doing testing.
    4. Revisited on November 30, 2018 (just CA RICH) – tenant not interested in doing testing.
8. **1815 Gilford Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – property is owned by tenant at Quality Ready Mix at 1824 Gilford Avenue. – owner not interested in doing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – spoke to owner at Quality Ready Mix – owner not interested in doing testing.
    4. Revisited on November 30, 2018 (just CA RICH) – tenant not interested in doing testing.
9. **1819 Gilford Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – owner of tenant space not interested in doing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – owner not available.
    4. Revisited on November 30, 2018 (just CA RICH) – no answer.
10. **1823 Gilford Avenue**
    1. Site visit on October 1, 2018 with owner – tenant space vacant.
    2. Revisited on October, 11, 2018 with NYSDEC – tenant space vacant.
    3. Revisited on November 30, 2018 (just CA RICH) – tenant space vacant.
11. **1827 Gilford Avenue**
    1. Site visit on October 1, 2018 with owner – tenant space vacant.
    2. Revisited on October, 11, 2018 with NYSDEC – tenant space vacant
    3. Revisited on November 30, 2018 (just CA RICH) – tenant space vacant.
12. **1833 Gilford Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – no answer.
    3. Revisited on October, 11, 2018 with NYSDEC – contractors inside vacant tenant space, no additional information.
    4. Revisited on November 30, 2018 (just CA RICH) – tenant space vacant, no answer
13. **1839 Gilford Avenue**
    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – spoke to a manager, hesitant about performing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – spoke to owner, hesitant about performing testing.
    4. Revisited on November 30, 2018 (just CA RICH) – owner not available.

e-mail: JProscia@carichinc.com

November 7, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 1st and 2nd, 2018, the Remedial Investigation was performed at the subject Property. All samples were obtained as per the approved Remedial Investigation Work Plan.
- On October 1, 2018, a walk through was performed with the Site owner to all off site properties in regard to the upcoming soil vapor testing.
- On October 11, 2018, a walk through was performed with the NYSDEC to all off site properties in regard to the upcoming soil vapor testing. The access letter worksheet as well as an updated Figure is attached to this Monthly Progress Report.
- On October 30, 2018, the EDD for the soil and groundwater samples was provided to the NYSDEC.

The following will be performed this month:

- The soil and groundwater analytical data will be imported into tables and compared to NYSDEC guidelines.
- Scheduling for the Remedial Investigation off site work (soil vapor) will be performed. This work will be performed in December 2018.

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov



CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982

17 Dupont Street, Plainview, New York 11803

TITLE: Proposed Off-Site Soil Vapor Evaluation Sample Locations	DATE: 11/6/2018
	SCALE: As Shown
FIGURE: 6	DRAWN BY: T.R.B.
DRAWING NO: 2018-1	APPR. BY: J.E.P.

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

H:\Drawings\Seaboard Estates-Zoe Chemical\2018-1

Off Site Soil Vapor Investigation

Access Letter Worksheet

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    4. Called owner (HS Denton Realty, LLC) on October 30, 2018 – Left a voicemail.
    5. Spoke with owner of HS Denton Realty, LLC on November 6, 2018 - owner not interested in doing testing.
4. **145 Denton Avenue**
    1. Certified letter sent on July 16, 2018.
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    1. Certified letter sent on July 16, 2018.
    2. Site visit on October 1, 2018 with owner – spoke to a manager, hesitant about performing testing.
    3. Revisited on October, 11, 2018 with NYSDEC – spoke to owner, hesitant about performing testing.

e-mail: JProscia@carichinc.com

October 10, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – September 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On September 6, 2018, quarterly monitoring was performed and SVE samples were obtained.
- On September 20, 2018, a carbon change out was performed.
- On September 20, 2018, SVE hoses between the carbon drums were replaced with hoses to withstand warmer SVE system temperatures.

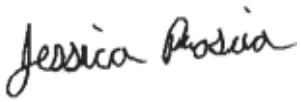
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in December 2018.
- Scheduling for the remedial investigation work (soil vapor) will be performed. This work will be performed in December 2018.
- The remedial investigation (soil and groundwater) has been scheduled for October 1st and 2nd.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

September 5, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Certified letters containing Property Access Agreements for the ten off-site properties that are targeted for soil vapor intrusion were sent out on July 16, 2018. Of the ten letters sent, one tenant address (145 Denton Avenue) will comply; three tenant addresses (1833 Gilford Avenue, 1815 Gilford Avenue, and 1811 Gilford Avenue) denied the letter; and the remaining six tenant addresses (135 Denton Avenue, 1840 Falmouth Avenue, 1818 Falmouth Avenue, 1819 Gilford Avenue, 1807 Gilford Avenue, and 1801 Gilford Avenue) received the letter, however did not respond.

- The remedial investigation (soil and groundwater) has been scheduled for October 1st and 2nd.

The following will be performed this month:

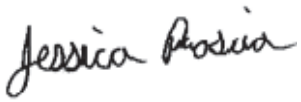
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2018.

- Scheduling for the remedial investigation work (soil vapor) will be performed. This work will be performed in December 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

August 2, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 9, 2018, the Second Quarter 2018, Quarterly Monitoring Report was submitted.
- On July 10, 2018, the NYSDEC approved CA RICH's Remedial Investigation Work Plan.
- On July 11, 2018, a carbon change out was performed for the SVE system.
- On July 16, 2018, certified letters containing Property Access Agreements for the ten off-site properties that are targeted for soil vapor intrusion were sent out.

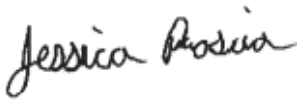
The following will be performed this month:

- Equipment and bottlewear will be ordered for the remedial investigation work.
- Scheduling for the remedial investigation work will be performed. This work will be performed in September 2018.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in September 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

June 7, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On May 23, 2018, the revised RIWP was resubmitted to the NYSDEC and NYSDOH with their comments incorporated.

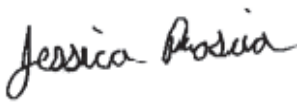
The following will be performed this month:

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

email list

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John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

May 14, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 30, 2018, the revised RIWP was resubmitted to the NYSDEC and NYSDOH with their comments incorporated.
- On April 30, 2018, NYSDEC requested CA RICH to incorporate additional supporting information to the RIWP.

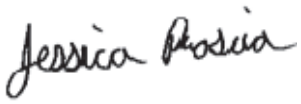
The following will be performed this month:

- The additional NYSDEC comments to the RIWP will be reviewed and incorporated. The revised RIWP will be submitted to the NYSDEC and NYSDOH in May 2018.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in June 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Charlotte Bethoney	charlotte.bethoney@health.ny.gov

e-mail: JProscia@carichinc.com

March 1, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- All NYSDEC and NYSDOH comments to the RIWP are being further reviewed and incorporated.

The following will be performed this month:

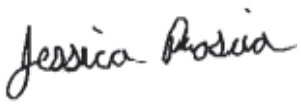
- All NYSDEC and NYSDOH comments to the RIWP will be reviewed and incorporated. The revised RIWP will be submitted to the NYSDEC and NYSDOH in March/April 2018.

- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

email list

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e-mail: JProscia@carichinc.com

February 7, 2018

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2018**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On January 3, 2018 the Fourth Quarter 2017 Quarterly Monitoring Report was submitted.
- On January 4, 2018 the NYSDEC comments to the Remedial Investigation Work Plan (RIWP) was received. CA RICH will incorporate all comments.
- On January 26, 2018 the NYSDOH comments to the RIWP was received. CA RICH will incorporate all comments.

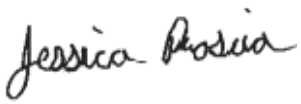
The following will be performed this month:

- All NYSDEC and NYSDOH comments to the RIWP will be further reviewed and incorporated. The revised RIWP will be submitted to the NYSDEC and NYSDOH in March 2018.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The next quarterly monitoring assignment will be performed in March 2018.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Alali Tamuno, Esq.
Michael Murphy, Esq.
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John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

December 4, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- On November 30, 2017 a proposal was signed to install a telemetry unit for the SVE system. Associated parts are being ordered.

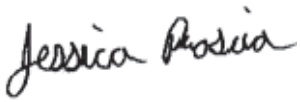
The following will be performed this month:

- A carbon change out will be performed on December 4, 2017.
- A telemetry unit will be installed for the SVE system. Weekly site visits will continue until the unit is installed to ensure the SVE system is running.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis. The quarterly monitoring assignment will be performed on December 8, 2017.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

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e-mail: JProscia@carichinc.com

November 1, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- On October 5, 2017, the first Quarterly Monitoring Report was submitted to the NYSDEC and NYSDOH.
- On October 18, 2017, The Remedial Investigation Work Plan was submitted to the NYSDEC and NYSDOH.
- On October 19, 2017, the leaking ball valve (that was discussed in the October 2017 Quarterly Monitoring Report) was repaired.

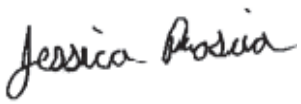
The following will be performed this month:

- Weekly site visits will continue to be performed to ensure the SVE system is running.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis (December 2017).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott
Charlotte Bethoney

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

August 30, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- On August 3, 2017, a carbon change out was performed.
- On August 15, 2017, a conference call was performed with the NYSDEC, CA RICH, and the owner's representative from Beveridge & Diamond Law to discuss the projects remaining steps.
- On August 16, 2017, CA RICH visited the Western Nassau Water Authority to request the analytical results for the northern supply well. CA RICH subsequently submitted a formal FOIL request to obtain this information.

The following will be performed this month:

- Weekly site visits will continue to be performed to ensure the SVE system is running.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis (September 2017).

- Preparation of the Remedial Investigation Work Plan.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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August 8, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The Construction Completion Report – Part B was approved on July 19, 2017.

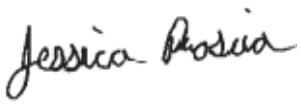
The following will be performed this month:

- A conference call has been scheduled for August 15, 2017 with the NYSDEC, CA RICH, and the owner's representatives from Beveridge & Diamond Law to discuss the projects remaining steps.
- Weekly site visits will continue to be performed to ensure the SVE system is running.
- As per the approved Construction Completion Report – Part B, a raw, mid, and effluent sample will be obtained from the system on a quarterly basis (September 2017).

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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July 7, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – June 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On June 30, 2017, a raw, mid, and effluent sample was obtained from the system.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The comments to the Construction Completion Report – Part B were incorporated and the Report was resubmitted on June 22, 2017.

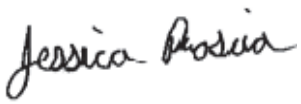
The following will be performed this month:

- Weekly site visits will continue to be performed to ensure the SVE system is running.
- Until the Construction Completion Report – Part B is approved, a raw, mid, and effluent sample will be obtained from the system on a monthly basis. After the approval, these samples will be obtained on a quarterly basis.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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e-mail: JProscia@carichinc.com

June 5, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On May 26, 2017, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The comments to the Construction Completion Report – Part B were reviewed.

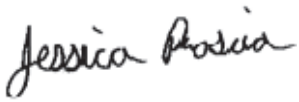
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- The Construction Completion Report – Part B comments will be incorporated, and the Report will be resubmitted.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
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Laurence Gordon
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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1717410
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	06/05/17

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), 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: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1717410-01	RAW AIR (5/26/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	05/26/17 08:00	05/26/17
L1717410-02	MID AIR (5/26/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	05/26/17 08:10	05/26/17
L1717410-03	EFFLUENT AIR (5/26/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	05/26/17 08:20	05/26/17

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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:	Not Specified	**Lab Number:**	L1717410
Project Number:	Not Specified	**Report Date:**	06/05/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 25, 2017. The canister certification results are provided as an addendum.

Sample L1717410-01 through -03: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen due to canister size. The pressurization resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

Sample L1717410-01 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: 06/05/17

AIR

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-01 D
Client ID: RAW AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/02/17 23:41
Analyst: MB

Date Collected: 05/26/17 08:00
Date Received: 05/26/17
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	1.13	--	ND	5.59	--		5.643
Chloromethane	ND	1.13	--	ND	2.33	--		5.643
Freon-114	ND	1.13	--	ND	7.90	--		5.643
Vinyl chloride	ND	1.13	--	ND	2.89	--		5.643
1,3-Butadiene	ND	1.13	--	ND	2.50	--		5.643
Bromomethane	ND	1.13	--	ND	4.39	--		5.643
Chloroethane	11.2	1.13	--	29.6	2.98	--		5.643
Ethanol	ND	28.2	--	ND	53.1	--		5.643
Vinyl bromide	ND	1.13	--	ND	4.94	--		5.643
Acetone	ND	5.64	--	ND	13.4	--		5.643
Trichlorofluoromethane	ND	1.13	--	ND	6.35	--		5.643
Isopropanol	ND	2.82	--	ND	6.93	--		5.643
1,1-Dichloroethene	3.13	1.13	--	12.4	4.48	--		5.643
Tertiary butyl Alcohol	ND	2.82	--	ND	8.55	--		5.643
Methylene chloride	ND	2.82	--	ND	9.80	--		5.643
3-Chloropropene	ND	1.13	--	ND	3.54	--		5.643
Carbon disulfide	ND	1.13	--	ND	3.52	--		5.643
Freon-113	ND	1.13	--	ND	8.66	--		5.643
trans-1,2-Dichloroethene	ND	1.13	--	ND	4.48	--		5.643
1,1-Dichloroethane	102	1.13	--	413	4.57	--		5.643
Methyl tert butyl ether	ND	1.13	--	ND	4.07	--		5.643
2-Butanone	ND	2.82	--	ND	8.32	--		5.643
cis-1,2-Dichloroethene	2.36	1.13	--	9.36	4.48	--		5.643
Ethyl Acetate	ND	2.82	--	ND	10.2	--		5.643

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-01 D
Client ID: RAW AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:00
Date Received: 05/26/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	5.95	1.13	--	29.1	5.52	--		5.643
Tetrahydrofuran	ND	2.82	--	ND	8.32	--		5.643
1,2-Dichloroethane	ND	1.13	--	ND	4.57	--		5.643
n-Hexane	1.58	1.13	--	5.57	3.98	--		5.643
1,1,1-Trichloroethane	355	1.13	--	1940	6.17	--		5.643
Benzene	ND	1.13	--	ND	3.61	--		5.643
Carbon tetrachloride	ND	1.13	--	ND	7.11	--		5.643
Cyclohexane	ND	1.13	--	ND	3.89	--		5.643
1,2-Dichloropropane	ND	1.13	--	ND	5.22	--		5.643
Bromodichloromethane	ND	1.13	--	ND	7.57	--		5.643
1,4-Dioxane	1.23	1.13	--	4.43	4.07	--		5.643
Trichloroethene	16.4	1.13	--	88.1	6.07	--		5.643
2,2,4-Trimethylpentane	ND	1.13	--	ND	5.28	--		5.643
Heptane	ND	1.13	--	ND	4.63	--		5.643
cis-1,3-Dichloropropene	ND	1.13	--	ND	5.13	--		5.643
4-Methyl-2-pentanone	ND	2.82	--	ND	11.6	--		5.643
trans-1,3-Dichloropropene	ND	1.13	--	ND	5.13	--		5.643
1,1,2-Trichloroethane	ND	1.13	--	ND	6.17	--		5.643
Toluene	2.28	1.13	--	8.59	4.26	--		5.643
2-Hexanone	ND	1.13	--	ND	4.63	--		5.643
Dibromochloromethane	ND	1.13	--	ND	9.63	--		5.643
1,2-Dibromoethane	ND	1.13	--	ND	8.68	--		5.643
Tetrachloroethene	13.2	1.13	--	89.5	7.66	--		5.643
Chlorobenzene	ND	1.13	--	ND	5.20	--		5.643
Ethylbenzene	ND	1.13	--	ND	4.91	--		5.643
p/m-Xylene	ND	2.26	--	ND	9.82	--		5.643
Bromoform	ND	1.13	--	ND	11.7	--		5.643
Styrene	ND	1.13	--	ND	4.81	--		5.643

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-01 D
Client ID: RAW AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:00
Date Received: 05/26/17
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	1.13	--	ND	7.76	--		5.643
o-Xylene	ND	1.13	--	ND	4.91	--		5.643
4-Ethyltoluene	ND	1.13	--	ND	5.56	--		5.643
1,3,5-Trimethylbenzene	ND	1.13	--	ND	5.56	--		5.643
1,2,4-Trimethylbenzene	ND	1.13	--	ND	5.56	--		5.643
Benzyl chloride	ND	1.13	--	ND	5.85	--		5.643
1,3-Dichlorobenzene	ND	1.13	--	ND	6.79	--		5.643
1,4-Dichlorobenzene	ND	1.13	--	ND	6.79	--		5.643
1,2-Dichlorobenzene	ND	1.13	--	ND	6.79	--		5.643
1,2,4-Trichlorobenzene	ND	1.13	--	ND	8.39	--		5.643
Hexachlorobutadiene	ND	1.13	--	ND	12.1	--		5.643

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	113		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	113		60-140

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-02 D
Client ID: MID AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/17 00:13
Analyst: MB

Date Collected: 05/26/17 08:10
Date Received: 05/26/17
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	1.05	--	ND	5.19	--		5.264
Chloromethane	ND	1.05	--	ND	2.17	--		5.264
Freon-114	ND	1.05	--	ND	7.34	--		5.264
Vinyl chloride	ND	1.05	--	ND	2.68	--		5.264
1,3-Butadiene	ND	1.05	--	ND	2.32	--		5.264
Bromomethane	ND	1.05	--	ND	4.08	--		5.264
Chloroethane	9.90	1.05	--	26.1	2.77	--		5.264
Ethanol	34.4	26.3	--	64.8	49.6	--		5.264
Vinyl bromide	ND	1.05	--	ND	4.59	--		5.264
Acetone	ND	5.26	--	ND	12.5	--		5.264
Trichlorofluoromethane	ND	1.05	--	ND	5.90	--		5.264
Isopropanol	ND	2.63	--	ND	6.46	--		5.264
1,1-Dichloroethene	3.55	1.05	--	14.1	4.16	--		5.264
Tertiary butyl Alcohol	2.71	2.63	--	8.22	7.97	--		5.264
Methylene chloride	ND	2.63	--	ND	9.14	--		5.264
3-Chloropropene	ND	1.05	--	ND	3.29	--		5.264
Carbon disulfide	ND	1.05	--	ND	3.27	--		5.264
Freon-113	ND	1.05	--	ND	8.05	--		5.264
trans-1,2-Dichloroethene	ND	1.05	--	ND	4.16	--		5.264
1,1-Dichloroethane	95.3	1.05	--	386	4.25	--		5.264
Methyl tert butyl ether	ND	1.05	--	ND	3.79	--		5.264
2-Butanone	ND	2.63	--	ND	7.76	--		5.264
cis-1,2-Dichloroethene	2.84	1.05	--	11.3	4.16	--		5.264
Ethyl Acetate	ND	2.63	--	ND	9.48	--		5.264

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-02 D
Client ID: MID AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:10
Date Received: 05/26/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.67	1.05	--	22.8	5.13	--		5.264
Tetrahydrofuran	3.61	2.63	--	10.6	7.76	--		5.264
1,2-Dichloroethane	ND	1.05	--	ND	4.25	--		5.264
n-Hexane	ND	1.05	--	ND	3.70	--		5.264
1,1,1-Trichloroethane	374	1.05	--	2040	5.73	--		5.264
Benzene	ND	1.05	--	ND	3.35	--		5.264
Carbon tetrachloride	ND	1.05	--	ND	6.60	--		5.264
Cyclohexane	ND	1.05	--	ND	3.61	--		5.264
1,2-Dichloropropane	ND	1.05	--	ND	4.85	--		5.264
Bromodichloromethane	ND	1.05	--	ND	7.03	--		5.264
1,4-Dioxane	ND	1.05	--	ND	3.78	--		5.264
Trichloroethene	ND	1.05	--	ND	5.64	--		5.264
2,2,4-Trimethylpentane	ND	1.05	--	ND	4.90	--		5.264
Heptane	ND	1.05	--	ND	4.30	--		5.264
cis-1,3-Dichloropropene	ND	1.05	--	ND	4.77	--		5.264
4-Methyl-2-pentanone	ND	2.63	--	ND	10.8	--		5.264
trans-1,3-Dichloropropene	ND	1.05	--	ND	4.77	--		5.264
1,1,2-Trichloroethane	ND	1.05	--	ND	5.73	--		5.264
Toluene	ND	1.05	--	ND	3.96	--		5.264
2-Hexanone	ND	1.05	--	ND	4.30	--		5.264
Dibromochloromethane	ND	1.05	--	ND	8.95	--		5.264
1,2-Dibromoethane	ND	1.05	--	ND	8.07	--		5.264
Tetrachloroethene	ND	1.05	--	ND	7.12	--		5.264
Chlorobenzene	ND	1.05	--	ND	4.84	--		5.264
Ethylbenzene	ND	1.05	--	ND	4.56	--		5.264
p/m-Xylene	ND	2.10	--	ND	9.12	--		5.264
Bromoform	ND	1.05	--	ND	10.9	--		5.264
Styrene	ND	1.05	--	ND	4.47	--		5.264

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-02 D
Client ID: MID AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:10
Date Received: 05/26/17
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	1.05	--	ND	7.21	--		5.264
o-Xylene	ND	1.05	--	ND	4.56	--		5.264
4-Ethyltoluene	ND	1.05	--	ND	5.16	--		5.264
1,3,5-Trimethylbenzene	ND	1.05	--	ND	5.16	--		5.264
1,2,4-Trimethylbenzene	ND	1.05	--	ND	5.16	--		5.264
Benzyl chloride	ND	1.05	--	ND	5.44	--		5.264
1,3-Dichlorobenzene	ND	1.05	--	ND	6.31	--		5.264
1,4-Dichlorobenzene	ND	1.05	--	ND	6.31	--		5.264
1,2-Dichlorobenzene	ND	1.05	--	ND	6.31	--		5.264
1,2,4-Trichlorobenzene	ND	1.05	--	ND	7.79	--		5.264
Hexachlorobutadiene	ND	1.05	--	ND	11.2	--		5.264

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	115		60-140
Bromochloromethane	120		60-140
chlorobenzene-d5	115		60-140

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-03 D
Client ID: EFFLUENT AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/17 00:48
Analyst: MB

Date Collected: 05/26/17 08:20
Date Received: 05/26/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.644	0.433	--	3.18	2.14	--		2.167
Chloromethane	ND	0.433	--	ND	0.894	--		2.167
Freon-114	ND	0.433	--	ND	3.03	--		2.167
Vinyl chloride	ND	0.433	--	ND	1.11	--		2.167
1,3-Butadiene	ND	0.433	--	ND	0.958	--		2.167
Bromomethane	ND	0.433	--	ND	1.68	--		2.167
Chloroethane	7.30	0.433	--	19.3	1.14	--		2.167
Ethanol	30.0	10.8	--	56.5	20.3	--		2.167
Vinyl bromide	ND	0.433	--	ND	1.89	--		2.167
Acetone	3.71	2.17	--	8.81	5.15	--		2.167
Trichlorofluoromethane	ND	0.433	--	ND	2.43	--		2.167
Isopropanol	1.21	1.08	--	2.97	2.65	--		2.167
1,1-Dichloroethene	0.472	0.433	--	1.87	1.72	--		2.167
Tertiary butyl Alcohol	ND	1.08	--	ND	3.27	--		2.167
Methylene chloride	ND	1.08	--	ND	3.75	--		2.167
3-Chloropropene	ND	0.433	--	ND	1.36	--		2.167
Carbon disulfide	ND	0.433	--	ND	1.35	--		2.167
Freon-113	ND	0.433	--	ND	3.32	--		2.167
trans-1,2-Dichloroethene	ND	0.433	--	ND	1.72	--		2.167
1,1-Dichloroethane	ND	0.433	--	ND	1.75	--		2.167
Methyl tert butyl ether	ND	0.433	--	ND	1.56	--		2.167
2-Butanone	ND	1.08	--	ND	3.19	--		2.167
cis-1,2-Dichloroethene	ND	0.433	--	ND	1.72	--		2.167
Ethyl Acetate	ND	1.08	--	ND	3.89	--		2.167

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-03 D
Client ID: EFFLUENT AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:20
Date Received: 05/26/17
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	0.433	--	ND	2.11	--		2.167
Tetrahydrofuran	ND	1.08	--	ND	3.19	--		2.167
1,2-Dichloroethane	ND	0.433	--	ND	1.75	--		2.167
n-Hexane	ND	0.433	--	ND	1.53	--		2.167
1,1,1-Trichloroethane	ND	0.433	--	ND	2.36	--		2.167
Benzene	0.650	0.433	--	2.08	1.38	--		2.167
Carbon tetrachloride	ND	0.433	--	ND	2.72	--		2.167
Cyclohexane	ND	0.433	--	ND	1.49	--		2.167
1,2-Dichloropropane	ND	0.433	--	ND	2.00	--		2.167
Bromodichloromethane	ND	0.433	--	ND	2.90	--		2.167
1,4-Dioxane	ND	0.433	--	ND	1.56	--		2.167
Trichloroethene	ND	0.433	--	ND	2.33	--		2.167
2,2,4-Trimethylpentane	ND	0.433	--	ND	2.02	--		2.167
Heptane	ND	0.433	--	ND	1.77	--		2.167
cis-1,3-Dichloropropene	ND	0.433	--	ND	1.97	--		2.167
4-Methyl-2-pentanone	ND	1.08	--	ND	4.43	--		2.167
trans-1,3-Dichloropropene	ND	0.433	--	ND	1.97	--		2.167
1,1,2-Trichloroethane	ND	0.433	--	ND	2.36	--		2.167
Toluene	0.843	0.433	--	3.18	1.63	--		2.167
2-Hexanone	ND	0.433	--	ND	1.77	--		2.167
Dibromochloromethane	ND	0.433	--	ND	3.69	--		2.167
1,2-Dibromoethane	ND	0.433	--	ND	3.33	--		2.167
Tetrachloroethene	ND	0.433	--	ND	2.94	--		2.167
Chlorobenzene	ND	0.433	--	ND	1.99	--		2.167
Ethylbenzene	ND	0.433	--	ND	1.88	--		2.167
p/m-Xylene	ND	0.867	--	ND	3.77	--		2.167
Bromoform	ND	0.433	--	ND	4.48	--		2.167
Styrene	ND	0.433	--	ND	1.84	--		2.167

Project Name: ***Lab Number:*** L1717410

Project Number: Not Specified ***Report Date:*** 06/05/17

SAMPLE RESULTS

Lab ID: L1717410-03 D
Client ID: EFFLUENT AIR (5/26/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 05/26/17 08:20
Date Received: 05/26/17
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	0.433	--	ND	2.97	--		2.167
o-Xylene	ND	0.433	--	ND	1.88	--		2.167
4-Ethyltoluene	ND	0.433	--	ND	2.13	--		2.167
1,3,5-Trimethylbenzene	ND	0.433	--	ND	2.13	--		2.167
1,2,4-Trimethylbenzene	0.516	0.433	--	2.54	2.13	--		2.167
Benzyl chloride	ND	0.433	--	ND	2.24	--		2.167
1,3-Dichlorobenzene	ND	0.433	--	ND	2.60	--		2.167
1,4-Dichlorobenzene	ND	0.433	--	ND	2.60	--		2.167
1,2-Dichlorobenzene	ND	0.433	--	ND	2.60	--		2.167
1,2,4-Trichlorobenzene	ND	0.433	--	ND	3.21	--		2.167
Hexachlorobutadiene	ND	0.433	--	ND	4.62	--		2.167

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	113		60-140
Bromochloromethane	114		60-140
chlorobenzene-d5	112		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/17 14:49

Parameter	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: WG1008961-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/17 14:49

Parameter	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: WG1008961-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/17 14:49

Parameter	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: WG1008961-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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: WG1008961-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	102		-		70-130	-		
Propane	72		-		70-130	-		
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	84		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	100		-		70-130	-		
Methanol	77		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Butane	74		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	89		-		70-130	-		
Ethyl Alcohol	80		-		70-130	-		
Dichlorofluoromethane	86		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	76		-		70-130	-		
Acetone	96		-		70-130	-		
Acetonitrile	76		-		70-130	-		
Trichlorofluoromethane	109		-		70-130	-		
iso-Propyl Alcohol	83		-		70-130	-		
Acrylonitrile	82		-		70-130	-		
Pentane	75		-		70-130	-		
1,1-Dichloroethene	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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: WG1008961-3								
tert-Butyl Alcohol	79		-		70-130	-		
Methylene chloride	76		-		70-130	-		
3-Chloropropene	76		-		70-130	-		
Carbon disulfide	90		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
Vinyl acetate	111		-		70-130	-		
2-Butanone	85		-		70-130	-		
cis-1,2-Dichloroethene	100		-		70-130	-		
Ethyl Acetate	105		-		70-130	-		
Chloroform	106		-		70-130	-		
Tetrahydrofuran	89		-		70-130	-		
2,2-Dichloropropane	96		-		70-130	-		
1,2-Dichloroethane	104		-		70-130	-		
n-Hexane	82		-		70-130	-		
Isopropyl Ether	83		-		70-130	-		
Ethyl-Tert-Butyl-Ether	76		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
1,1-Dichloropropene	81		-		70-130	-		
Benzene	84		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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: WG1008961-3								
Cyclohexane	80		-		70-130	-		
Tertiary-Amyl Methyl Ether	79		-		70-130	-		
Dibromomethane	83		-		70-130	-		
1,2-Dichloropropane	82		-		70-130	-		
Bromodichloromethane	91		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	83		-		70-130	-		
Methyl Methacrylate	86		-		70-130	-		
Heptane	80		-		70-130	-		
cis-1,3-Dichloropropene	92		-		70-130	-		
4-Methyl-2-pentanone	81		-		70-130	-		
trans-1,3-Dichloropropene	81		-		70-130	-		
1,1,2-Trichloroethane	93		-		70-130	-		
Toluene	99		-		70-130	-		
1,3-Dichloropropane	90		-		70-130	-		
2-Hexanone	91		-		70-130	-		
Dibromochloromethane	114		-		70-130	-		
1,2-Dibromoethane	103		-		70-130	-		
Butyl Acetate	89		-		70-130	-		
Octane	90		-		70-130	-		
Tetrachloroethene	109		-		70-130	-		
1,1,1,2-Tetrachloroethane	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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: WG1008961-3								
Chlorobenzene	105		-		70-130	-		
Ethylbenzene	102		-		70-130	-		
p/m-Xylene	105		-		70-130	-		
Bromoform	122		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	105		-		70-130	-		
1,2,3-Trichloropropane	92		-		70-130	-		
Nonane (C9)	85		-		70-130	-		
Isopropylbenzene	102		-		70-130	-		
Bromobenzene	95		-		70-130	-		
o-Chlorotoluene	100		-		70-130	-		
n-Propylbenzene	99		-		70-130	-		
p-Chlorotoluene	96		-		70-130	-		
4-Ethyltoluene	108		-		70-130	-		
1,3,5-Trimethylbenzene	108		-		70-130	-		
tert-Butylbenzene	104		-		70-130	-		
1,2,4-Trimethylbenzene	113		-		70-130	-		
Decane (C10)	92		-		70-130	-		
Benzyl chloride	114		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
sec-Butylbenzene	101		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

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: WG1008961-3								
p-Isopropyltoluene	98		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	102		-		70-130	-		
Undecane	98		-		70-130	-		
Dodecane (C12)	110		-		70-130	-		
1,2,4-Trichlorobenzene	130		-		70-130	-		
Naphthalene	112		-		70-130	-		
1,2,3-Trichlorobenzene	118		-		70-130	-		
Hexachlorobutadiene	123		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1008961-5 QC Sample: L1717530-02 Client ID: DUP Sample						
Dichlorodifluoromethane	0.269	ND	ppbV	NC		25
Chloromethane	0.366	0.315	ppbV	15		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	1.60	1.46	ppbV	9		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	100	95.8	ppbV	4		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	60.2	55.9	ppbV	7		25
Trichlorofluoromethane	0.384	0.339	ppbV	12		25
iso-Propyl Alcohol	1.71	1.58	ppbV	8		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	2.90	2.66	ppbV	9		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	2.36	2.42	ppbV	3		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1008961-5 QC Sample: L1717530-02 Client ID: DUP Sample						
2-Butanone	83.7	81.7	ppbV	2		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		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	24.8	27.3	ppbV	10		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	3.27	3.58	ppbV	9		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	1.13	1.27	ppbV	12		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	0.264	0.275	ppbV	4		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	10.8	12.2	ppbV	12		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: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1008961-5 QC Sample: L1717530-02 Client ID: DUP Sample						
Toluene	5.53	5.72	ppbV	3		25
2-Hexanone	0.714	0.780	ppbV	9		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	13.9	13.8	ppbV	1		25
p/m-Xylene	43.8	42.8	ppbV	2		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	10.9	10.5	ppbV	4		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.336	0.319	ppbV	5		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:

Lab Number: L1717410

Project Number:

Report Date: 06/05/17

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
L1717410-01	RAW AIR (5/26/17)	670	1.0L Can	05/25/17	242633	L1716727-01	Pass	-29.2	-1.4	-	-	-	-
L1717410-02	MID AIR (5/26/17)	714	1.0L Can	05/25/17	242633	L1716727-01	Pass	-29.2	1.0	-	-	-	-
L1717410-03	EFFLUENT AIR (5/26/17)	1931	1.0L Can	05/25/17	242633	L1716727-01	Pass	-29.8	-0.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/23/17 16:36
Analyst: MB

Date Collected: 05/22/17 16:00
Date Received: 05/23/17
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Date Collected: 05/22/17 16:00
Date Received: 05/23/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Date Collected: 05/22/17 16:00
Date Received: 05/23/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Date Collected: 05/22/17 16:00
Date Received: 05/23/17
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								
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

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Silanol, Trimethyl-	6.5	NJ	ppbV		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Date Collected: 05/22/17 16:00
Date Received: 05/23/17
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	93		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/23/17 16:36
Analyst: MB

Date Collected: 05/22/17 16:00
Date Received: 05/23/17
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	0.056	0.050	--	0.429	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: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:

Date Collected: 05/22/17 16:00
Date Received: 05/23/17
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1716727
Report Date: 06/05/17

Air Canister Certification Results

Lab ID: L1716727-01
Client ID: CAN 1506 SHELF 3
Sample Location:
Date Collected: 05/22/17 16:00
Date Received: 05/23/17
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								
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	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1717410
Report Date: 06/05/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1717410-01A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1717410-02A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1717410-03A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1717410
Project Number:	Not Specified	**Report Date:**	06/05/17

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1717410
Project Number:	Not Specified	**Report Date:**	06/05/17

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1717410
Report Date: 06/05/17

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

PAGE 1 OF 1

CHAIN OF CUSTODY

Date Rec'd in Lab: 5/27/17

ALPHA Job #: L1717410 (L1717410 BR)

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

Client Information

Client: Ca Rich Consultants
Address: 17 DuPont St
Plainview NY
Phone: 516-576-8844
Fax:
Email: JPrescia@carichinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 180 Falmouth Ave
Project #: New Hyde Park, NY
Project Manager: Jessica Prescia
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)
7410 -01	Raw Air (5/26/17)	5/26/17	8:00	8:00	-30	2	SV	JP	2.7	670	-	X					
-02	Mid Air (5/26/17)	5/26/17	8:10	8:10	-30	2	SV	JP	2.7	714	-	X					
-03	Effluent Air (5/26/17)	5/26/17	8:20	8:20	-30	2	SV	JP	2.7	1931	-	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:
BJB	5-26-17-12:37	BJB	5-26-17-12:37
H-Vlahos	5-26-17-18:10	H-Vlahos	5-26-17 2430
H-Vlahos	5-27-17 0545	R B	5/27/17 05:45

e-mail: JProscia@carichinc.com

May 5, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- A carbon change out was performed on April 14, 2017
- On April 28, 2017, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.

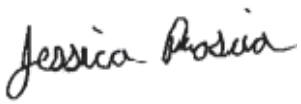
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- The comments to the Construction Completion Report – Part B will be reviewed.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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ANALYTICAL REPORT

Lab Number:	L1713606
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	05/04/17

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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: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1713606-01	RAW AIR (4/28/17)	SOIL_VAPOR	1801 FLMOUTH AVE NEW HYDE PARK, NY	04/28/17 08:00	04/28/17
L1713606-02	MID AIR (4/28/17)	SOIL_VAPOR	1801 FLMOUTH AVE NEW HYDE PARK, NY	04/28/17 08:08	04/28/17
L1713606-03	EFFLUENT AIR (4/28/17)	SOIL_VAPOR	1801 FLMOUTH AVE NEW HYDE PARK, NY	04/28/17 08:15	04/28/17

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 27, 2017. The canister certification results are provided as an addendum.

Sample L1713606-01: 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: 05/04/17

AIR

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-01 D
Client ID: RAW AIR (4/28/17)
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/17 01:19
Analyst: MB

Date Collected: 04/28/17 08:00
Date Received: 04/28/17
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	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	16.8	2.00	--	44.3	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	4.35	2.00	--	17.2	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	147	2.00	--	595	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	3.69	2.00	--	14.6	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-01 D
Client ID: RAW AIR (4/28/17)
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK

Date Collected: 04/28/17 08:00
Date Received: 04/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	5.67	2.00	--	27.7	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	479	2.00	--	2610	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	23.8	2.00	--	128	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	17.4	2.00	--	118	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-01 D
Client ID: RAW AIR (4/28/17)
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK

Date Collected: 04/28/17 08:00
Date Received: 04/28/17
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	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	108		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-02
Client ID: MID AIR (4/28/17)
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/17 01:52
Analyst: MB

Date Collected: 04/28/17 08:08
Date Received: 04/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.501	0.200	--	2.48	0.989	--		1
Chloromethane	0.499	0.200	--	1.03	0.413	--		1
Freon-114	0.300	0.200	--	2.10	1.40	--		1
Vinyl chloride	0.308	0.200	--	0.787	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	10.0	0.200	--	26.4	0.528	--		1
Ethanol	31.8	5.00	--	59.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.43	1.00	--	10.5	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

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-02 Date Collected: 04/28/17 08:08
Client ID: MID AIR (4/28/17) Date Received: 04/28/17
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK 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	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.691	0.500	--	2.04	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	0.204	0.200	--	1.11	1.09	--		1
Benzene	0.214	0.200	--	0.684	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	0.390	0.200	--	1.47	0.754	--		1
2-Hexanone	0.274	0.200	--	1.12	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.463	0.400	--	2.01	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-02 Date Collected: 04/28/17 08:08
Client ID: MID AIR (4/28/17) Date Received: 04/28/17
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK 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	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	0.275	0.200	--	1.35	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	108		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	93		60-140

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-03
Client ID: EFFLUENT AIR (4/28/17)
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/17 02:25
Analyst: MB

Date Collected: 04/28/17 08:15
Date Received: 04/28/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.761	0.200	--	3.76	0.989	--		1
Chloromethane	0.466	0.200	--	0.962	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.335	0.200	--	0.856	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	15.8	0.200	--	41.7	0.528	--		1
Ethanol	29.0	5.00	--	54.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.66	1.00	--	3.94	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	0.502	0.500	--	1.23	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

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-03 Date Collected: 04/28/17 08:15
Client ID: EFFLUENT AIR (4/28/17) Date Received: 04/28/17
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK 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	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	1.21	0.200	--	3.87	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	0.500	0.200	--	1.88	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.497	0.400	--	2.16	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: ***Lab Number:*** L1713606

Project Number: Not Specified ***Report Date:*** 05/04/17

SAMPLE RESULTS

Lab ID: L1713606-03 Date Collected: 04/28/17 08:15
Client ID: EFFLUENT AIR (4/28/17) Date Received: 04/28/17
Sample Location: 1801 FLMOUTH AVE NEW HYDE PARK 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	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	0.302	0.200	--	1.48	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	107		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/17 14:23

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: WG999981-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/17 14:23

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: WG999981-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/17 14:23

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: WG999981-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: WG999981-3								
Chlorodifluoromethane	90		-		70-130	-		
Propylene	109		-		70-130	-		
Propane	87		-		70-130	-		
Dichlorodifluoromethane	83		-		70-130	-		
Chloromethane	102		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98		-		70-130	-		
Methanol	91		-		70-130	-		
Vinyl chloride	102		-		70-130	-		
1,3-Butadiene	105		-		70-130	-		
Butane	99		-		70-130	-		
Bromomethane	95		-		70-130	-		
Chloroethane	99		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	88		-		70-130	-		
Vinyl bromide	92		-		70-130	-		
Acrolein	83		-		70-130	-		
Acetone	115		-		70-130	-		
Acetonitrile	99		-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
iso-Propyl Alcohol	100		-		70-130	-		
Acrylonitrile	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: WG999981-3								
Pentane	91		-		70-130	-		
Ethyl ether	90		-		70-130	-		
1,1-Dichloroethene	99		-		70-130	-		
tert-Butyl Alcohol	88		-		70-130	-		
Methylene chloride	105		-		70-130	-		
3-Chloropropene	109		-		70-130	-		
Carbon disulfide	89		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Methyl tert butyl ether	97		-		70-130	-		
Vinyl acetate	116		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		
Ethyl Acetate	102		-		70-130	-		
Chloroform	99		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
2,2-Dichloropropane	81		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	108		-		70-130	-		
Isopropyl Ether	94		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: WG999981-3								
Ethyl-Tert-Butyl-Ether	93		-		70-130	-		
1,1,1-Trichloroethane	116		-		70-130	-		
1,1-Dichloropropene	101		-		70-130	-		
Benzene	102		-		70-130	-		
Carbon tetrachloride	105		-		70-130	-		
Cyclohexane	106		-		70-130	-		
Tertiary-Amyl Methyl Ether	92		-		70-130	-		
Dibromomethane	101		-		70-130	-		
1,2-Dichloropropane	110		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	109		-		70-130	-		
Methyl Methacrylate	121		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	115		-		70-130	-		
4-Methyl-2-pentanone	113		-		70-130	-		
trans-1,3-Dichloropropene	98		-		70-130	-		
1,1,2-Trichloroethane	108		-		70-130	-		
Toluene	92		-		70-130	-		
1,3-Dichloropropane	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: WG999981-3								
2-Hexanone	101		-		70-130	-		
Dibromochloromethane	97		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		
Butyl Acetate	91		-		70-130	-		
Octane	85		-		70-130	-		
Tetrachloroethene	88		-		70-130	-		
1,1,1,2-Tetrachloroethane	85		-		70-130	-		
Chlorobenzene	93		-		70-130	-		
Ethylbenzene	93		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	96		-		70-130	-		
1,2,3-Trichloropropane	91		-		70-130	-		
Nonane (C9)	89		-		70-130	-		
Isopropylbenzene	89		-		70-130	-		
Bromobenzene	90		-		70-130	-		
o-Chlorotoluene	86		-		70-130	-		
n-Propylbenzene	87		-		70-130	-		
p-Chlorotoluene	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

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: WG999981-3								
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
tert-Butylbenzene	88		-		70-130	-		
1,2,4-Trimethylbenzene	98		-		70-130	-		
Decane (C10)	94		-		70-130	-		
Benzyl chloride	97		-		70-130	-		
1,3-Dichlorobenzene	94		-		70-130	-		
1,4-Dichlorobenzene	94		-		70-130	-		
sec-Butylbenzene	90		-		70-130	-		
p-Isopropyltoluene	84		-		70-130	-		
1,2-Dichlorobenzene	95		-		70-130	-		
n-Butylbenzene	95		-		70-130	-		
1,2-Dibromo-3-chloropropane	96		-		70-130	-		
Undecane	103		-		70-130	-		
Dodecane (C12)	117		-		70-130	-		
1,2,4-Trichlorobenzene	108		-		70-130	-		
Naphthalene	96		-		70-130	-		
1,2,3-Trichlorobenzene	104		-		70-130	-		
Hexachlorobutadiene	103		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG999981-5 QC Sample: L1713607-02 Client ID: DUP Sample						
Dichlorodifluoromethane	0.360	0.545	ppbV	**41**	Q	25
Chloromethane	0.786	0.738	ppbV	6		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	94.0	91.9	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	44.9	44.1	ppbV	2		25
Trichlorofluoromethane	0.251	0.251	ppbV	0		25
iso-Propyl Alcohol	12.8	12.8	ppbV	0		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	1.24	1.24	ppbV	0		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG999981-5 QC Sample: L1713607-02 Client ID: DUP Sample						
2-Butanone	0.823	0.790	ppbV	4		25
Ethyl Acetate	5.80	5.49	ppbV	5		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.375	0.405	ppbV	8		25
Benzene	0.512	0.537	ppbV	5		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	0.306	0.321	ppbV	5		25
Heptane	0.742	0.802	ppbV	8		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	2.43	2.49	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG999981-5 QC Sample: L1713607-02 Client ID: DUP Sample						
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.250	0.261	ppbV	4		25
p/m-Xylene	0.786	0.822	ppbV	4		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.297	0.310	ppbV	4		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.212	0.224	ppbV	6		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:

Lab Number: L1713606

Project Number:

Report Date: 05/04/17

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
L1713606-01	RAW AIR (4/28/17)	2035	2.7L Can	04/27/17	240926	L1712970-01	Pass	-29.5	-1.1	-	-	-	-
L1713606-02	MID AIR (4/28/17)	2382	2.7L Can	04/27/17	240926	L1712970-01	Pass	-29.4	-2.1	-	-	-	-
L1713606-03	EFFLUENT AIR (4/28/17)	2180	2.7L Can	04/27/17	240926	L1712970-01	Pass	-29.5	-0.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/25/17 18:36
Analyst: RY

Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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								
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

	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: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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	91		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/25/17 18:36
Analyst: RY

Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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								
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: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1712970
Report Date: 05/04/17

Air Canister Certification Results

Lab ID: L1712970-01
Client ID: CAN 487 SHELF 2
Sample Location:
Date Collected: 04/24/17 16:00
Date Received: 04/25/17
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								
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	96		60-140
chlorobenzene-d5	93		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1713606
Report Date: 05/04/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1713606-01A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1713606-02A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1713606-03A	Canister - 2.7 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: Not Specified
Project Number: Not Specified
Lab Number: L1713606
Report Date: 05/04/17

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1713606
Project Number:	Not Specified	**Report Date:**	05/04/17

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1713606
Report Date: 05/04/17

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

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 4/29/17

ALPHA Job #: L1713606

Client Information

Client: CA Rich Consultants
Address: 17 Dupont Street
Plainview NY
Phone: 516-576-8844
Fax: 516-576-0093
Email: JProscia@CarichINC.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave
~~Project #~~: New Hyde Park, NY
Project Manager: Jessica Proscia
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)
3606-01	Raw Air (4/28/17)	4/28/17	8:00	8:00	-30	4	SV	JP	2.7	2035	-	X					
-02	Mid Air (4/28/17)	4/28/17	8:08	8:08	-30	4	SV	JP	2.7	2382	-	X					
-03	Effluent Air (4/28/17)	4/28/17	8:15	8:15	-30	4	SV	JP	2.7	2180	-	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:
Paul Sciacca - AAL	4/28/17 17:50	Paul Sciacca - AAL	4/28/17 17:45
Anthony Iraggi (AAL)	4/29/17 02:00	(Anthony Iraggi (AAL)	4/28/17 09:36
		Bates, Brad	4/29/17 02:00

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

e-mail: JProscia@carichinc.com

April 6, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – March 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On March 30, 2017, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The Construction Completion Report Part B was submitted to the NYSDEC and NYSDOH on March 2, 2017.

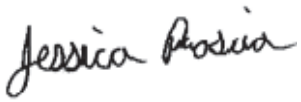
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- A carbon change out is scheduled for April 13, 2017

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1709042
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	NEW HYDE PARK, NY
Project Number:	Not Specified
Report Date:	03/30/17

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), 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: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1709042-01	RAW AIR (3/24/17)	SOIL_VAPOR	1801 FLMOUTH AVE	03/24/17 08:00	03/24/17
L1709042-02	MID AIR (3/24/17)	SOIL_VAPOR	1801 FLMOUTH AVE	03/24/17 08:05	03/24/17
L1709042-03	EFFLUENT AIR (3/24/17)	SOIL_VAPOR	1801 FLMOUTH AVE	03/24/17 08:10	03/24/17

Project Name:	NEW HYDE PARK, NY	**Lab Number:**	L1709042
Project Number:	Not Specified	**Report Date:**	03/30/17

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:	NEW HYDE PARK, NY	**Lab Number:**	L1709042
Project Number:	Not Specified	**Report Date:**	03/30/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 23, 2017. The canister certification results are provided as an addendum.

L1709042-01 through -03: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1709042-03 results for Acetone should be considered estimated due to co-elution with a non-target peak.

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: 03/30/17

AIR

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-01 D
Client ID: RAW AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/27/17 22:59
Analyst: MB

Date Collected: 03/24/17 08:00
Date Received: 03/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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	15.6	2.00	--	41.2	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	2.46	2.00	--	9.75	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	155	2.00	--	627	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	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-01 D
Client ID: RAW AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:00
Date Received: 03/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	2.79	2.00	--	13.6	9.77	--		10
Tetrahydrofuran	11.5	5.00	--	33.9	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	768	2.00	--	4190	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	15.2	2.00	--	81.7	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	10.6	2.00	--	71.9	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-01 D
Client ID: RAW AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:00
Date Received: 03/24/17
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								
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	76		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	85		60-140

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-02 D
Client ID: MID AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/27/17 22:28
Analyst: MB

Date Collected: 03/24/17 08:05
Date Received: 03/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
Freon-114	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	18.4	0.667	--	48.6	1.76	--		3.333
Ethanol	28.4	16.7	--	53.5	31.5	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	ND	3.33	--	ND	7.91	--		3.333
Trichlorofluoromethane	ND	0.667	--	ND	3.75	--		3.333
Isopropanol	ND	1.67	--	ND	4.10	--		3.333
1,1-Dichloroethene	1.14	0.667	--	4.52	2.64	--		3.333
Tertiary butyl Alcohol	2.30	1.67	--	6.97	5.06	--		3.333
Methylene chloride	3.50	1.67	--	12.2	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	ND	0.667	--	ND	2.08	--		3.333
Freon-113	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	106	0.667	--	429	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	ND	1.67	--	ND	4.93	--		3.333
cis-1,2-Dichloroethene	1.03	0.667	--	4.08	2.64	--		3.333
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-02 D
Client ID: MID AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:05
Date Received: 03/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	1.38	0.667	--	6.74	3.26	--		3.333
Tetrahydrofuran	2.02	1.67	--	5.96	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	ND	0.667	--	ND	2.35	--		3.333
1,1,1-Trichloroethane	243	0.667	--	1330	3.64	--		3.333
Benzene	ND	0.667	--	ND	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	5.77	0.667	--	19.9	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	2.80	0.667	--	15.0	3.58	--		3.333
2,2,4-Trimethylpentane	0.826	0.667	--	3.86	3.12	--		3.333
Heptane	ND	0.667	--	ND	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	ND	0.667	--	ND	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	0.900	0.667	--	6.10	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333
p/m-Xylene	ND	1.33	--	ND	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	ND	0.667	--	ND	2.84	--		3.333

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-02 D
Client ID: MID AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:05
Date Received: 03/24/17
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								
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	78		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	85		60-140

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-03 D
Client ID: EFFLUENT AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/27/17 21:56
Analyst: MB

Date Collected: 03/24/17 08:10
Date Received: 03/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
Freon-114	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	0.776	0.667	--	1.98	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	34.8	0.667	--	91.8	1.76	--		3.333
Ethanol	ND	16.7	--	ND	31.5	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	3.90	3.33	--	9.26	7.91	--		3.333
Trichlorofluoromethane	ND	0.667	--	ND	3.75	--		3.333
Isopropanol	ND	1.67	--	ND	4.10	--		3.333
1,1-Dichloroethene	1.23	0.667	--	4.88	2.64	--		3.333
Tertiary butyl Alcohol	ND	1.67	--	ND	5.06	--		3.333
Methylene chloride	ND	1.67	--	ND	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	ND	0.667	--	ND	2.08	--		3.333
Freon-113	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	54.4	0.667	--	220	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	ND	1.67	--	ND	4.93	--		3.333
cis-1,2-Dichloroethene	3.17	0.667	--	12.6	2.64	--		3.333
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-03 D
Client ID: EFFLUENT AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:10
Date Received: 03/24/17
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								
Chloroform	1.85	0.667	--	9.03	3.26	--		3.333
Tetrahydrofuran	ND	1.67	--	ND	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	ND	0.667	--	ND	2.35	--		3.333
1,1,1-Trichloroethane	319	0.667	--	1740	3.64	--		3.333
Benzene	ND	0.667	--	ND	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	4.63	0.667	--	15.9	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	1.22	0.667	--	6.56	3.58	--		3.333
2,2,4-Trimethylpentane	1.15	0.667	--	5.37	3.12	--		3.333
Heptane	ND	0.667	--	ND	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	ND	0.667	--	ND	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	ND	0.667	--	ND	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333
p/m-Xylene	ND	1.33	--	ND	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	ND	0.667	--	ND	2.84	--		3.333

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

SAMPLE RESULTS

Lab ID: L1709042-03 D
Client ID: EFFLUENT AIR (3/24/17)
Sample Location: 1801 FLMOUTH AVE
Date Collected: 03/24/17 08:10
Date Received: 03/24/17
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								
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/27/17 11:49

Parameter	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: WG988563-4								
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: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/27/17 11:49

Parameter	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: WG988563-4								
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: NEW HYDE PARK, NY
Project Number: Not Specified
Lab Number: L1709042
Report Date: 03/30/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/27/17 11:49

Parameter	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: WG988563-4								
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: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

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: WG988563-3								
Chlorodifluoromethane	90		-		70-130	-		
Propylene	103		-		70-130	-		
Propane	74		-		70-130	-		
Dichlorodifluoromethane	95		-		70-130	-		
Chloromethane	98		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	108		-		70-130	-		
Methanol	75		-		70-130	-		
Vinyl chloride	102		-		70-130	-		
1,3-Butadiene	102		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	107		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethyl Alcohol	79		-		70-130	-		
Dichlorofluoromethane	96		-		70-130	-		
Vinyl bromide	106		-		70-130	-		
Acrolein	89		-		70-130	-		
Acetone	105		-		70-130	-		
Acetonitrile	79		-		70-130	-		
Trichlorofluoromethane	106		-		70-130	-		
iso-Propyl Alcohol	88		-		70-130	-		
Acrylonitrile	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

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: WG988563-3								
Pentane	79		-		70-130	-		
Ethyl ether	79		-		70-130	-		
1,1-Dichloroethene	101		-		70-130	-		
tert-Butyl Alcohol	80		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	98		-		70-130	-		
Carbon disulfide	101		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		-		70-130	-		
trans-1,2-Dichloroethene	98		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Methyl tert butyl ether	96		-		70-130	-		
Vinyl acetate	120		-		70-130	-		
2-Butanone	87		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		
Ethyl Acetate	108		-		70-130	-		
Chloroform	106		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
2,2-Dichloropropane	89		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	97		-		70-130	-		
Isopropyl Ether	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

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: WG988563-3								
Ethyl-Tert-Butyl-Ether	85		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
1,1-Dichloropropene	97		-		70-130	-		
Benzene	98		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
Cyclohexane	96		-		70-130	-		
Tertiary-Amyl Methyl Ether	85		-		70-130	-		
Dibromomethane	98		-		70-130	-		
1,2-Dichloropropane	101		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	106		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl Methacrylate	117		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	92		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	106		-		70-130	-		
Toluene	115		-		70-130	-		
1,3-Dichloropropane	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

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: WG988563-3								
2-Hexanone	107		-		70-130	-		
Dibromochloromethane	126		-		70-130	-		
1,2-Dibromoethane	121		-		70-130	-		
Butyl Acetate	106		-		70-130	-		
Octane	107		-		70-130	-		
Tetrachloroethene	121		-		70-130	-		
1,1,1,2-Tetrachloroethane	110		-		70-130	-		
Chlorobenzene	120		-		70-130	-		
Ethylbenzene	117		-		70-130	-		
p/m-Xylene	116		-		70-130	-		
Bromoform	123		-		70-130	-		
Styrene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	123		-		70-130	-		
o-Xylene	118		-		70-130	-		
1,2,3-Trichloropropane	108		-		70-130	-		
Nonane (C9)	97		-		70-130	-		
Isopropylbenzene	113		-		70-130	-		
Bromobenzene	106		-		70-130	-		
o-Chlorotoluene	110		-		70-130	-		
n-Propylbenzene	103		-		70-130	-		
p-Chlorotoluene	109		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

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: WG988563-3								
4-Ethyltoluene	115		-		70-130	-		
1,3,5-Trimethylbenzene	116		-		70-130	-		
tert-Butylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	122		-		70-130	-		
Decane (C10)	105		-		70-130	-		
Benzyl chloride	112		-		70-130	-		
1,3-Dichlorobenzene	120		-		70-130	-		
1,4-Dichlorobenzene	120		-		70-130	-		
sec-Butylbenzene	111		-		70-130	-		
p-Isopropyltoluene	106		-		70-130	-		
1,2-Dichlorobenzene	120		-		70-130	-		
n-Butylbenzene	115		-		70-130	-		
1,2-Dibromo-3-chloropropane	106		-		70-130	-		
Undecane	110		-		70-130	-		
Dodecane (C12)	115		-		70-130	-		
1,2,4-Trichlorobenzene	124		-		70-130	-		
Naphthalene	104		-		70-130	-		
1,2,3-Trichlorobenzene	112		-		70-130	-		
Hexachlorobutadiene	123		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG988563-5 QC Sample: L1708775-01 Client ID: DUP Sample						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	0.238	0.258	ppbV	8		25
Chloromethane	0.302	0.331	ppbV	9		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	0.263	0.263	ppbV	0		25
iso-Propyl Alcohol	1.14	1.13	ppbV	1		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	0.808	0.780	ppbV	4		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG988563-5 QC Sample: L1708775-01 Client ID: DUP Sample						
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
Vinyl acetate	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		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
Bromodichloromethane	ND	ND	ppbV	NC		25
Xylene (Total)	0.288	0.256	ppbV	12		25
1,4-Dioxane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG988563-5 QC Sample: L1708775-01 Client ID: DUP Sample						
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
Toluene	0.215	0.204	ppbV	5		25
2-Hexanone	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG988563-5 QC Sample: L1708775-01 Client ID: DUP Sample						
o-Chlorotoluene	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: NEW HYDE PARK, NY

Lab Number: L1709042

Project Number:

Report Date: 03/30/17

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
L1709042-01	RAW AIR (3/24/17)	1696	6.0L Can	03/23/17	238641	L1708307-02	Pass	-29.5	-0.4	-	-	-	-
L1709042-02	MID AIR (3/24/17)	629	6.0L Can	03/23/17	238641	L1708307-02	Pass	-29.5	-0.1	-	-	-	-
L1709042-03	EFFLUENT AIR (3/24/17)	584	6.0L Can	03/23/17	238641	L1708307-02	Pass	-29.7	-2.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/20/17 15:57
Analyst: MB

Date Collected: 03/20/17 09:00
Date Received: 03/20/17
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
Field Prep: Not Specified

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

	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: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	83		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/20/17 15:57
Analyst: MB

Date Collected: 03/20/17 09:00
Date Received: 03/20/17
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: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1708307
Report Date: 03/30/17

Air Canister Certification Results

Lab ID: L1708307-02
Client ID: CAN 2323 SHELF 58
Sample Location:
Date Collected: 03/20/17 09:00
Date Received: 03/20/17
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								
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	91		60-140
chlorobenzene-d5	84		60-140

Project Name: NEW HYDE PARK, NY
Project Number: Not Specified

Lab Number: L1709042
Report Date: 03/30/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1709042-01A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1709042-02A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1709042-03A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	NEW HYDE PARK, NY	**Lab Number:**	L1709042
Project Number:	Not Specified	**Report Date:**	03/30/17

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	NEW HYDE PARK, NY	**Lab Number:**	L1709042
Project Number:	Not Specified	**Report Date:**	03/30/17

Data Qualifiers

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: 3/25/17

ALPHA Job #: L1709042

Client Information

Client: Ca Rich Consultants
Address: 17 DuPont St
Plainview NY
Phone: 516-576-8844
Fax:
Email: JProscia@Carichinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave
~~Project #:~~ New Hyde Park, NY
Project Manager: Jessica Proscia
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)
904-01	Raw Air (3/24/17)	3/24/17	8 am	8 am	30	4	SV	JP	6L	1896	/	X					
-02	Mid Air (3/24/17)	3/24/17	8:05	8:05	30	4	SV	JP	6L	629	/	X					
-03	Effluent Air (3/24/17)	3/24/17	8:10	8:10	30	4	SV	JP	6L	581	/	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:
Paul Mazzella	3/24/17 1610	Paul Mazzella	3/24/17 1610
M Vlachos	3/24/17 2222	M Vlachos	3-24-17 2222
	3-25-17 0330	Bethy Bedard	3/25/17 03:30

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

e-mail: JProscia@carichinc.com

March 7, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On February 24, 2017, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The Construction Completion Report Part B was in progress.

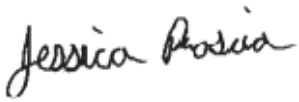
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- The Construction Completion Report Part B was submitted to the NYSDEC and NYSDOH on March 2, 2017.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1705809
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	03/02/17

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), 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: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705809-01	RAW AIR (2/24/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	02/24/17 08:00	02/24/17
L1705809-02	MID AIR (2/24/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	02/24/17 08:02	02/24/17
L1705809-03	EFFLUENT AIR (2/24/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	02/24/17 08:10	02/24/17

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 21, 2017. The canister certification results are provided as an addendum.

Sample L1705809-01 and -03: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Sample L1705809-01 through -03 results for Acetone should be considered estimated due to co-elution with a non-target peak.

Sample L1705809-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-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: 03/02/17

AIR

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-01 D
Client ID: RAW AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/02/17 00:20
Analyst: MB

Date Collected: 02/24/17 08:00
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	16.9	2.00	--	44.6	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	20.5	10.0	--	48.7	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	4.97	2.00	--	19.7	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	147	2.00	--	595	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	4.64	2.00	--	18.4	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-01 D
Client ID: RAW AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:00
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	5.99	2.00	--	29.3	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	459	2.00	--	2500	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	24.8	2.00	--	133	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	2.41	2.00	--	9.08	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	16.5	2.00	--	112	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-01 D
Client ID: RAW AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:00
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	2.40	2.00	--	11.8	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	79		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	82		60-140

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-02 D
Client ID: MID AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/02/17 00:51
Analyst: MB

Date Collected: 02/24/17 08:02
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	10.9	2.00	--	28.8	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	16.8	10.0	--	39.9	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	3.79	2.00	--	15.0	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	106	2.00	--	429	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	5.56	2.00	--	22.0	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-02 D
Client ID: MID AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:02
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	4.27	2.00	--	20.9	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	3.85	2.00	--	13.6	7.05	--		10
1,1,1-Trichloroethane	337	2.00	--	1840	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	3.23	2.00	--	11.1	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	31.1	2.00	--	167	10.7	--		10
2,2,4-Trimethylpentane	2.99	2.00	--	14.0	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	13.0	2.00	--	88.2	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-02 D
Client ID: MID AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:02
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	82		60-140
Bromochloromethane	83		60-140
chlorobenzene-d5	84		60-140

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-03 D
Client ID: EFFLUENT AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/02/17 01:21
Analyst: MB

Date Collected: 02/24/17 08:10
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	20.8	2.00	--	54.9	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	23.0	10.0	--	54.6	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	12.7	2.00	--	50.4	7.93	--		10
Tertiary butyl Alcohol	9.65	5.00	--	29.3	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	659	2.00	--	2670	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	16.3	2.00	--	64.6	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-03 D
Client ID: EFFLUENT AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:10
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	9.25	2.00	--	45.2	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	975	2.00	--	5320	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	ND	2.00	--	ND	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	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1705809

Project Number: Not Specified ***Report Date:*** 03/02/17

SAMPLE RESULTS

Lab ID: L1705809-03 D
Client ID: EFFLUENT AIR (2/24/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 02/24/17 08:10
Date Received: 02/24/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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	81		60-140
Bromochloromethane	79		60-140
chlorobenzene-d5	83		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/01/17 14:53

Parameter	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: WG982024-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/01/17 14:53

Parameter	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: WG982024-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/01/17 14:53

Parameter	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: WG982024-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: WG982024-3								
Chlorodifluoromethane	82		-		70-130	-		
Propylene	96		-		70-130	-		
Propane	79		-		70-130	-		
Dichlorodifluoromethane	88		-		70-130	-		
Chloromethane	87		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	96		-		70-130	-		
Methanol	73		-		70-130	-		
Vinyl chloride	93		-		70-130	-		
1,3-Butadiene	88		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	91		-		70-130	-		
Ethyl Alcohol	76		-		70-130	-		
Dichlorofluoromethane	83		-		70-130	-		
Vinyl bromide	98		-		70-130	-		
Acrolein	81		-		70-130	-		
Acetone	94		-		70-130	-		
Acetonitrile	95		-		70-130	-		
Trichlorofluoromethane	95		-		70-130	-		
iso-Propyl Alcohol	78		-		70-130	-		
Acrylonitrile	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: WG982024-3								
Pentane	81		-		70-130	-		
Ethyl ether	79		-		70-130	-		
1,1-Dichloroethene	91		-		70-130	-		
tert-Butyl Alcohol	75		-		70-130	-		
Methylene chloride	91		-		70-130	-		
3-Chloropropene	93		-		70-130	-		
Carbon disulfide	90		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
Methyl tert butyl ether	91		-		70-130	-		
Vinyl acetate	97		-		70-130	-		
2-Butanone	85		-		70-130	-		
cis-1,2-Dichloroethene	95		-		70-130	-		
Ethyl Acetate	97		-		70-130	-		
Chloroform	96		-		70-130	-		
Tetrahydrofuran	85		-		70-130	-		
2,2-Dichloropropane	86		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
n-Hexane	86		-		70-130	-		
Isopropyl Ether	85		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: WG982024-3								
Ethyl-Tert-Butyl-Ether	79		-		70-130	-		
1,1,1-Trichloroethane	91		-		70-130	-		
1,1-Dichloropropene	87		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	93		-		70-130	-		
Cyclohexane	86		-		70-130	-		
Tertiary-Amyl Methyl Ether	80		-		70-130	-		
Dibromomethane	85		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	91		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Methyl Methacrylate	92		-		70-130	-		
Heptane	82		-		70-130	-		
cis-1,3-Dichloropropene	94		-		70-130	-		
4-Methyl-2-pentanone	85		-		70-130	-		
trans-1,3-Dichloropropene	81		-		70-130	-		
1,1,2-Trichloroethane	95		-		70-130	-		
Toluene	96		-		70-130	-		
1,3-Dichloropropane	89		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: WG982024-3								
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	102		-		70-130	-		
1,2-Dibromoethane	100		-		70-130	-		
Butyl Acetate	82		-		70-130	-		
Octane	91		-		70-130	-		
Tetrachloroethene	103		-		70-130	-		
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	102		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	92		-		70-130	-		
o-Xylene	99		-		70-130	-		
1,2,3-Trichloropropane	87		-		70-130	-		
Nonane (C9)	85		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	90		-		70-130	-		
o-Chlorotoluene	95		-		70-130	-		
n-Propylbenzene	95		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

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: WG982024-3								
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	98		-		70-130	-		
tert-Butylbenzene	96		-		70-130	-		
1,2,4-Trimethylbenzene	102		-		70-130	-		
Decane (C10)	89		-		70-130	-		
Benzyl chloride	100		-		70-130	-		
1,3-Dichlorobenzene	104		-		70-130	-		
1,4-Dichlorobenzene	104		-		70-130	-		
sec-Butylbenzene	95		-		70-130	-		
p-Isopropyltoluene	91		-		70-130	-		
1,2-Dichlorobenzene	105		-		70-130	-		
n-Butylbenzene	96		-		70-130	-		
1,2-Dibromo-3-chloropropane	89		-		70-130	-		
Undecane	90		-		70-130	-		
Dodecane (C12)	103		-		70-130	-		
1,2,4-Trichlorobenzene	111		-		70-130	-		
Naphthalene	102		-		70-130	-		
1,2,3-Trichlorobenzene	106		-		70-130	-		
Hexachlorobutadiene	106		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG982024-5 QC Sample: L1705765-01 Client ID: DUP Sample						
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	306	291	ppbV	5		25
Trichlorofluoromethane	2.70	2.56	ppbV	5		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	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG982024-5 QC Sample: L1705765-01 Client ID: DUP Sample						
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	4.80	4.55	ppbV	5		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		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	1.92	1.82	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	1.26	1.24	ppbV	2		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	7.84	8.18	ppbV	4		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	3.78	3.60	ppbV	5		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG982024-5 QC Sample: L1705765-01 Client ID: DUP Sample						
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	19.8	20.3	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	24.6	24.9	ppbV	1		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	5.64	5.88	ppbV	4		25
p/m-Xylene	23.2	23.8	ppbV	3		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	7.92	8.21	ppbV	4		25
4-Ethyltoluene	2.06	2.05	ppbV	0		25
1,3,5-Trimethylbenzene	1.73	1.87	ppbV	8		25
1,2,4-Trimethylbenzene	5.78	6.02	ppbV	4		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG982024-5 QC Sample: L1705765-01 Client ID: DUP Sample						
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:

Lab Number: L1705809

Project Number:

Report Date: 03/02/17

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
L1705809-01	RAW AIR (2/24/17)	2103	6.0L Can	02/21/17	237064	L1705029-01	Pass	-30.0	-1.7	-	-	-	-
L1705809-02	MID AIR (2/24/17)	1053	6.0L Can	02/21/17	237064	L1705029-01	Pass	-30.0	-0.1	-	-	-	-
L1705809-03	EFFLUENT AIR (2/24/17)	748	6.0L Can	02/21/17	237064	L1705029-01	Pass	-30.0	-3.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/17/17 09:03
Analyst: MB

Date Collected: 02/16/17 16:00
Date Received: 02/17/17
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Date Collected: 02/16/17 16:00
Date Received: 02/17/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Date Collected: 02/16/17 16:00
Date Received: 02/17/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Date Collected: 02/16/17 16:00
Date Received: 02/17/17
Field Prep: Not Specified

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

	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: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:

Date Collected: 02/16/17 16:00
Date Received: 02/17/17
Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/17/17 09:03
Analyst: MB

Date Collected: 02/16/17 16:00
Date Received: 02/17/17
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: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Date Collected: 02/16/17 16:00
Date Received: 02/17/17
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1705029
Report Date: 03/02/17

Air Canister Certification Results

Lab ID: L1705029-01
Client ID: CAN 1703 SHELF 46
Sample Location:
Date Collected: 02/16/17 16:00
Date Received: 02/17/17
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								
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	87		60-140
chlorobenzene-d5	92		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1705809
Report Date: 03/02/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705809-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1705809-02A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1705809-03A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1705809
Project Number:	Not Specified	**Report Date:**	03/02/17

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1705809
Project Number:	Not Specified	**Report Date:**	03/02/17

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1705809
Report Date: 03/02/17

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.

Serial_No:03021714:10

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: 2/25/17

ALPHA Job #: L1705809

Client Information

Client: CaRich Consultants, Inc
Address: 17 DuPont Street
Plainview NY 11803
Phone: 516-576-8844
Fax: 516-576-0093
Email: JProscia@CarichInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave New Hyde Park, NY
~~Project #~~:
Project Manager: Jessica Proscia
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)
5809-01	Raw Air (2/24/17)	2/24/17	8:00	8:00	30	5	SV	JP	6L	2103	-	X						
-02	Mid Air (2/24/17)	2/24/17	8:02	8:02	30	5	SV	JP	6L	1053	-	X						
-03	Effluent Air (2/24/17)	2/24/17	8:10	8:10	30	5	SV	JP	6L	248	-	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:
	2/24/17 11:08		2/24/17 11:08
	2/24/17 15:30		2024-17 2130
	2-25-17 0245		2/25/17 02:45

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

e-mail: JProscia@carichinc.com

February 7, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2017**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On January 27, 2017, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.
- The Construction Completion Report Part B was in progress.

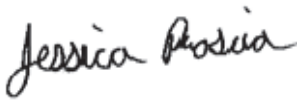
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- The Construction Completion Report Part B will be submitted.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

email list

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1702851
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	02/07/17

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1702851-01	RAW AIR (1/27/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	01/27/17 08:01	01/27/17
L1702851-02	MID AIR (1/27/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	01/27/17 08:05	01/27/17
L1702851-03	EFFLUENT AIR (1/27/17)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	01/27/17 08:10	01/27/17

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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:	Not Specified	**Lab Number:**	L1702851
Project Number:	Not Specified	**Report Date:**	02/07/17

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 23, 2017. The canister certification results are provided as an addendum.

Sample L1702851-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Sample L1702851-02 results for Acetone should be considered estimated due to co-elution with a non-target peak.

Sample L1702851-03: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-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: 02/07/17

AIR

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-01 D
Client ID: RAW AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/07/17 03:02
Analyst: MB

Date Collected: 01/27/17 08:01
Date Received: 01/27/17
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	3.98	--	ND	19.7	--		19.92
Chloromethane	ND	3.98	--	ND	8.22	--		19.92
Freon-114	ND	3.98	--	ND	27.8	--		19.92
Vinyl chloride	ND	3.98	--	ND	10.2	--		19.92
1,3-Butadiene	ND	3.98	--	ND	8.80	--		19.92
Bromomethane	ND	3.98	--	ND	15.5	--		19.92
Chloroethane	47.0	3.98	--	124	10.5	--		19.92
Ethanol	ND	99.6	--	ND	188	--		19.92
Vinyl bromide	ND	3.98	--	ND	17.4	--		19.92
Acetone	ND	19.9	--	ND	47.3	--		19.92
Trichlorofluoromethane	ND	3.98	--	ND	22.4	--		19.92
Isopropanol	ND	9.96	--	ND	24.5	--		19.92
1,1-Dichloroethene	6.18	3.98	--	24.5	15.8	--		19.92
Tertiary butyl Alcohol	ND	9.96	--	ND	30.2	--		19.92
Methylene chloride	ND	9.96	--	ND	34.6	--		19.92
3-Chloropropene	ND	3.98	--	ND	12.5	--		19.92
Carbon disulfide	ND	3.98	--	ND	12.4	--		19.92
Freon-113	ND	3.98	--	ND	30.5	--		19.92
trans-1,2-Dichloroethene	ND	3.98	--	ND	15.8	--		19.92
1,1-Dichloroethane	285	3.98	--	1150	16.1	--		19.92
Methyl tert butyl ether	ND	3.98	--	ND	14.3	--		19.92
2-Butanone	ND	9.96	--	ND	29.4	--		19.92
cis-1,2-Dichloroethene	14.0	3.98	--	55.5	15.8	--		19.92
Ethyl Acetate	ND	9.96	--	ND	35.9	--		19.92

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-01 D
Client ID: RAW AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:01
Date Received: 01/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	7.03	3.98	--	34.3	19.4	--		19.92
Tetrahydrofuran	ND	9.96	--	ND	29.4	--		19.92
1,2-Dichloroethane	ND	3.98	--	ND	16.1	--		19.92
n-Hexane	ND	3.98	--	ND	14.0	--		19.92
1,1,1-Trichloroethane	1170	3.98	--	6380	21.7	--		19.92
Benzene	ND	3.98	--	ND	12.7	--		19.92
Carbon tetrachloride	ND	3.98	--	ND	25.0	--		19.92
Cyclohexane	8.82	3.98	--	30.4	13.7	--		19.92
1,2-Dichloropropane	ND	3.98	--	ND	18.4	--		19.92
Bromodichloromethane	ND	3.98	--	ND	26.7	--		19.92
1,4-Dioxane	ND	3.98	--	ND	14.3	--		19.92
Trichloroethene	86.1	3.98	--	463	21.4	--		19.92
2,2,4-Trimethylpentane	8.31	3.98	--	38.8	18.6	--		19.92
Heptane	ND	3.98	--	ND	16.3	--		19.92
cis-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.92
4-Methyl-2-pentanone	ND	9.96	--	ND	40.8	--		19.92
trans-1,3-Dichloropropene	ND	3.98	--	ND	18.1	--		19.92
1,1,2-Trichloroethane	ND	3.98	--	ND	21.7	--		19.92
Toluene	ND	3.98	--	ND	15.0	--		19.92
2-Hexanone	ND	3.98	--	ND	16.3	--		19.92
Dibromochloromethane	ND	3.98	--	ND	33.9	--		19.92
1,2-Dibromoethane	ND	3.98	--	ND	30.6	--		19.92
Tetrachloroethene	29.5	3.98	--	200	27.0	--		19.92
Chlorobenzene	ND	3.98	--	ND	18.3	--		19.92
Ethylbenzene	ND	3.98	--	ND	17.3	--		19.92
p/m-Xylene	ND	7.97	--	ND	34.6	--		19.92
Bromoform	ND	3.98	--	ND	41.2	--		19.92
Styrene	ND	3.98	--	ND	16.9	--		19.92

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-01 D
Client ID: RAW AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:01
Date Received: 01/27/17
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	3.98	--	ND	27.3	--		19.92
o-Xylene	ND	3.98	--	ND	17.3	--		19.92
4-Ethyltoluene	ND	3.98	--	ND	19.6	--		19.92
1,3,5-Trimethylbenzene	4.58	3.98	--	22.5	19.6	--		19.92
1,2,4-Trimethylbenzene	11.7	3.98	--	57.5	19.6	--		19.92
Benzyl chloride	ND	3.98	--	ND	20.6	--		19.92
1,3-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.92
1,4-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.92
1,2-Dichlorobenzene	ND	3.98	--	ND	23.9	--		19.92
1,2,4-Trichlorobenzene	ND	3.98	--	ND	29.5	--		19.92
Hexachlorobutadiene	ND	3.98	--	ND	42.5	--		19.92

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	83		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	87		60-140

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-02 D
Client ID: MID AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/07/17 02:32
Analyst: MB

Date Collected: 01/27/17 08:05
Date Received: 01/27/17
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	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	18.5	2.00	--	48.8	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	12.4	10.0	--	29.5	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	2.66	2.00	--	10.5	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	126	2.00	--	510	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	7.92	2.00	--	31.4	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-02 D
Client ID: MID AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:05
Date Received: 01/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroform	3.32	2.00	--	16.2	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	536	2.00	--	2920	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	5.38	2.00	--	18.5	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	43.8	2.00	--	235	10.7	--		10
2,2,4-Trimethylpentane	4.92	2.00	--	23.0	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	7.74	2.00	--	52.5	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-02 D
Client ID: MID AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:05
Date Received: 01/27/17
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	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	77		60-140
Bromochloromethane	78		60-140
chlorobenzene-d5	81		60-140

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-03 D
Client ID: EFFLUENT AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/07/17 02:01
Analyst: MB

Date Collected: 01/27/17 08:10
Date Received: 01/27/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.592	0.250	--	2.93	1.24	--		1.25
Chloromethane	0.488	0.250	--	1.01	0.516	--		1.25
Freon-114	0.602	0.250	--	4.21	1.75	--		1.25
Vinyl chloride	0.564	0.250	--	1.44	0.639	--		1.25
1,3-Butadiene	ND	0.250	--	ND	0.553	--		1.25
Bromomethane	ND	0.250	--	ND	0.971	--		1.25
Chloroethane	21.5	0.250	--	56.7	0.660	--		1.25
Ethanol	11.7	6.25	--	22.0	11.8	--		1.25
Vinyl bromide	ND	0.250	--	ND	1.09	--		1.25
Acetone	4.49	1.25	--	10.7	2.97	--		1.25
Trichlorofluoromethane	0.841	0.250	--	4.73	1.40	--		1.25
Isopropanol	0.829	0.625	--	2.04	1.54	--		1.25
1,1-Dichloroethene	1.93	0.250	--	7.65	0.991	--		1.25
Tertiary butyl Alcohol	ND	0.625	--	ND	1.89	--		1.25
Methylene chloride	0.862	0.625	--	2.99	2.17	--		1.25
3-Chloropropene	ND	0.250	--	ND	0.783	--		1.25
Carbon disulfide	ND	0.250	--	ND	0.779	--		1.25
Freon-113	ND	0.250	--	ND	1.92	--		1.25
trans-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--		1.25
1,1-Dichloroethane	32.1	0.250	--	130	1.01	--		1.25
Methyl tert butyl ether	ND	0.250	--	ND	0.901	--		1.25
2-Butanone	ND	0.625	--	ND	1.84	--		1.25
cis-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--		1.25
Ethyl Acetate	ND	0.625	--	ND	2.25	--		1.25

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-03 D
Client ID: EFFLUENT AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:10
Date Received: 01/27/17
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	0.250	--	ND	1.22	--		1.25
Tetrahydrofuran	ND	0.625	--	ND	1.84	--		1.25
1,2-Dichloroethane	ND	0.250	--	ND	1.01	--		1.25
n-Hexane	ND	0.250	--	ND	0.881	--		1.25
1,1,1-Trichloroethane	0.986	0.250	--	5.38	1.36	--		1.25
Benzene	0.798	0.250	--	2.55	0.799	--		1.25
Carbon tetrachloride	ND	0.250	--	ND	1.57	--		1.25
Cyclohexane	ND	0.250	--	ND	0.861	--		1.25
1,2-Dichloropropane	ND	0.250	--	ND	1.16	--		1.25
Bromodichloromethane	ND	0.250	--	ND	1.67	--		1.25
1,4-Dioxane	ND	0.250	--	ND	0.901	--		1.25
Trichloroethene	ND	0.250	--	ND	1.34	--		1.25
2,2,4-Trimethylpentane	ND	0.250	--	ND	1.17	--		1.25
Heptane	ND	0.250	--	ND	1.02	--		1.25
cis-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--		1.25
4-Methyl-2-pentanone	ND	0.625	--	ND	2.56	--		1.25
trans-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--		1.25
1,1,2-Trichloroethane	ND	0.250	--	ND	1.36	--		1.25
Toluene	ND	0.250	--	ND	0.942	--		1.25
2-Hexanone	ND	0.250	--	ND	1.02	--		1.25
Dibromochloromethane	ND	0.250	--	ND	2.13	--		1.25
1,2-Dibromoethane	ND	0.250	--	ND	1.92	--		1.25
Tetrachloroethene	ND	0.250	--	ND	1.70	--		1.25
Chlorobenzene	ND	0.250	--	ND	1.15	--		1.25
Ethylbenzene	ND	0.250	--	ND	1.09	--		1.25
p/m-Xylene	ND	0.500	--	ND	2.17	--		1.25
Bromoform	ND	0.250	--	ND	2.58	--		1.25
Styrene	ND	0.250	--	ND	1.06	--		1.25

Project Name: ***Lab Number:*** L1702851

Project Number: Not Specified ***Report Date:*** 02/07/17

SAMPLE RESULTS

Lab ID: L1702851-03 D
Client ID: EFFLUENT AIR (1/27/17)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 01/27/17 08:10
Date Received: 01/27/17
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	0.250	--	ND	1.72	--		1.25
o-Xylene	ND	0.250	--	ND	1.09	--		1.25
4-Ethyltoluene	ND	0.250	--	ND	1.23	--		1.25
1,3,5-Trimethylbenzene	ND	0.250	--	ND	1.23	--		1.25
1,2,4-Trimethylbenzene	ND	0.250	--	ND	1.23	--		1.25
Benzyl chloride	ND	0.250	--	ND	1.29	--		1.25
1,3-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,4-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,2-Dichlorobenzene	ND	0.250	--	ND	1.50	--		1.25
1,2,4-Trichlorobenzene	ND	0.250	--	ND	1.86	--		1.25
Hexachlorobutadiene	ND	0.250	--	ND	2.67	--		1.25

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	73		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	72		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/06/17 15:08

Parameter	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: WG975775-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/06/17 15:08

Parameter	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: WG975775-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/06/17 15:08

Parameter	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: WG975775-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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: WG975775-3								
Chlorodifluoromethane	89		-		70-130	-		
Propylene	102		-		70-130	-		
Propane	91		-		70-130	-		
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	104		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	101		-		70-130	-		
Vinyl chloride	103		-		70-130	-		
1,3-Butadiene	109		-		70-130	-		
Butane	100		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethyl Alcohol	114		-		70-130	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	91		-		70-130	-		
Acrolein	94		-		70-130	-		
Acetone	107		-		70-130	-		
Acetonitrile	119		-		70-130	-		
Trichlorofluoromethane	89		-		70-130	-		
iso-Propyl Alcohol	104		-		70-130	-		
Acrylonitrile	104		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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: WG975775-3								
Pentane	92		-		70-130	-		
Ethyl ether	93		-		70-130	-		
1,1-Dichloroethene	91		-		70-130	-		
tert-Butyl Alcohol	94		-		70-130	-		
Methylene chloride	109		-		70-130	-		
3-Chloropropene	107		-		70-130	-		
Carbon disulfide	82		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	85		-		70-130	-		
Methyl tert butyl ether	75		-		70-130	-		
Vinyl acetate	108		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	97		-		70-130	-		
Ethyl Acetate	90		-		70-130	-		
Chloroform	85		-		70-130	-		
Tetrahydrofuran	86		-		70-130	-		
2,2-Dichloropropane	76		-		70-130	-		
1,2-Dichloroethane	86		-		70-130	-		
n-Hexane	106		-		70-130	-		
Isopropyl Ether	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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: WG975775-3								
Ethyl-Tert-Butyl-Ether	100		-		70-130	-		
1,1,1-Trichloroethane	96		-		70-130	-		
1,1-Dichloropropene	100		-		70-130	-		
Benzene	96		-		70-130	-		
Carbon tetrachloride	107		-		70-130	-		
Cyclohexane	105		-		70-130	-		
Tertiary-Amyl Methyl Ether	88		-		70-130	-		
Dibromomethane	99		-		70-130	-		
1,2-Dichloropropane	113		-		70-130	-		
Bromodichloromethane	104		-		70-130	-		
1,4-Dioxane	109		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	115		-		70-130	-		
Methyl Methacrylate	**131**	Q	-		70-130	-		
Heptane	115		-		70-130	-		
cis-1,3-Dichloropropene	107		-		70-130	-		
4-Methyl-2-pentanone	124		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	80		-		70-130	-		
1,3-Dichloropropane	82		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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: WG975775-3								
2-Hexanone	97		-		70-130	-		
Dibromochloromethane	87		-		70-130	-		
1,2-Dibromoethane	84		-		70-130	-		
Butyl Acetate	70		-		70-130	-		
Octane	75		-		70-130	-		
Tetrachloroethene	80		-		70-130	-		
1,1,1,2-Tetrachloroethane	78		-		70-130	-		
Chlorobenzene	88		-		70-130	-		
Ethylbenzene	81		-		70-130	-		
p/m-Xylene	84		-		70-130	-		
Bromoform	84		-		70-130	-		
Styrene	86		-		70-130	-		
1,1,2,2-Tetrachloroethane	96		-		70-130	-		
o-Xylene	88		-		70-130	-		
1,2,3-Trichloropropane	83		-		70-130	-		
Nonane (C9)	91		-		70-130	-		
Isopropylbenzene	81		-		70-130	-		
Bromobenzene	82		-		70-130	-		
o-Chlorotoluene	81		-		70-130	-		
n-Propylbenzene	81		-		70-130	-		
p-Chlorotoluene	79		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

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: WG975775-3								
4-Ethyltoluene	82		-		70-130	-		
1,3,5-Trimethylbenzene	88		-		70-130	-		
tert-Butylbenzene	86		-		70-130	-		
1,2,4-Trimethylbenzene	94		-		70-130	-		
Decane (C10)	92		-		70-130	-		
Benzyl chloride	92		-		70-130	-		
1,3-Dichlorobenzene	93		-		70-130	-		
1,4-Dichlorobenzene	92		-		70-130	-		
sec-Butylbenzene	86		-		70-130	-		
p-Isopropyltoluene	79		-		70-130	-		
1,2-Dichlorobenzene	90		-		70-130	-		
n-Butylbenzene	87		-		70-130	-		
1,2-Dibromo-3-chloropropane	90		-		70-130	-		
Undecane	95		-		70-130	-		
Dodecane (C12)	108		-		70-130	-		
1,2,4-Trichlorobenzene	102		-		70-130	-		
Naphthalene	92		-		70-130	-		
1,2,3-Trichlorobenzene	86		-		70-130	-		
Hexachlorobutadiene	94		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG975775-5 QC Sample: L1703012-03 Client ID: DUP Sample						
Dichlorodifluoromethane	0.420	0.440	ppbV	5		25
Chloromethane	0.641	0.641	ppbV	0		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	50.1	48.6	ppbV	3		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	11.4	11.5	ppbV	1		25
Trichlorofluoromethane	0.208	ND	ppbV	NC		25
iso-Propyl Alcohol	57.4	57.2	ppbV	0		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG975775-5 QC Sample: L1703012-03 Client ID: DUP Sample						
2-Butanone	3.34	3.29	ppbV	2		25
Ethyl Acetate	9.58	9.32	ppbV	3		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	2.65	2.70	ppbV	2		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	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	0.216	0.215	ppbV	0		25
2-Hexanone	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG975775-5 QC Sample: L1703012-03 Client ID: DUP Sample						
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
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:

Lab Number: L1702851

Project Number:

Report Date: 02/07/17

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
L1702851-01	RAW AIR (1/27/17)	2103	6.0L Can	01/23/17	235661	L1701502-03	Pass	-29.5	-1.0	-	-	-	-
L1702851-02	MID AIR (1/27/17)	1975	6.0L Can	01/23/17	235661	L1701502-03	Pass	-29.6	-2.8	-	-	-	-
L1702851-03	EFFLUENT AIR (1/27/17)	1535	6.0L Can	01/23/17	235661	L1701502-03	Pass	-29.5	-1.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/17/17 17:28
Analyst: RY

Date Collected: 01/16/17 16:00
Date Received: 01/17/17
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
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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
Field Prep: Not Specified

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

	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: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
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	91		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/17/17 17:28
Analyst: RY

Date Collected: 01/16/17 16:00
Date Received: 01/17/17
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	0.054	0.050	--	0.414	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: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
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: L1701502
Report Date: 02/07/17

Air Canister Certification Results

Lab ID: L1701502-03
Client ID: CAN 2251 SHELF 58
Sample Location:
Date Collected: 01/16/17 16:00
Date Received: 01/17/17
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								
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	88		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1702851
Report Date: 02/07/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702851-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1702851-02A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1702851-03A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1702851
Project Number:	Not Specified	**Report Date:**	02/07/17

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1702851
Project Number:	Not Specified	**Report Date:**	02/07/17

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1702851
Report Date: 02/07/17

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

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: 1/28/17

ALPHA Job #: L1702851

Client Information

Client: Ca Rich Consultants
Address: 17 DuPont Street
Plainview NY 11803
Phone: 516-576-8844
Fax:
Email: JProscia@CarichInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave
Project #: New Hyde Park, NY
Project Manager: Jessica Proscia
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	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
02851-01	Raw Air (1/27/17)	1/27/17	8:00	8:01	30	3	SV	JP	6L	2103	/	X					
-02	Mid Air (1/27/17)	1/27/17	8:04	8:05	30	3	SV	JP	6L	1975	/	X					
-03	Effluent Air (1/27/17)	1/27/17	8:09	8:10	30	3	SV	JP	6L	1535	/	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:
	1/27/17 1800		1/27/17 1145
	1-28-17 0415		1/27/17 2205
			1/28/17 04:15

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

e-mail: JProscia@carichinc.com

January 6, 2017

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – December 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Based on previous results, a carbon change was performed on December 1, 2016.
- On December 21, 2016, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.

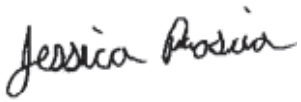
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- The Construction Completion Report Part B is in progress.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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Michael Murphy, Esq.	MMurphy@bdlaw.com
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John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1641580
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St Plainview, NY 11803
ATTN:	Charles Rich
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	12/29/16

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1641580-01	RAW AIR (12/21/16)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	12/21/16 08:01	12/21/16
L1641580-02	MID AIR (12/21/16)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	12/21/16 08:06	12/21/16
L1641580-03	EFFLUENT AIR (12/21/16)	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	12/21/16 08:11	12/21/16

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Case Narrative (continued)

Sample Receipt

Volatile Organics in Air

Canisters were released from the laboratory on December 19, 2016. The canister certification results are provided as an addendum.

Volatile Organics in Air

L1641580-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1641580-02 and -03: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

The WG965346-3 LCS recoveries for 1,2,4-Trichlorobenzene (135%) and Hexachlorobutadiene (131%) 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: Elizabeth Porta

Title: Technical Director/Representative Date: 12/29/16

AIR

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-01 D
Client ID: RAW AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/29/16 02:04
Analyst: RY

Date Collected: 12/21/16 08:01
Date Received: 12/21/16
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	9.50	--	ND	47.0	--		47.48
Chloromethane	ND	9.50	--	ND	19.6	--		47.48
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	9.50	--	ND	66.4	--		47.48
Vinyl chloride	ND	9.50	--	ND	24.3	--		47.48
1,3-Butadiene	ND	9.50	--	ND	21.0	--		47.48
Bromomethane	ND	9.50	--	ND	36.9	--		47.48
Chloroethane	317	9.50	--	837	25.1	--		47.48
Ethyl Alcohol	ND	237.	--	ND	447	--		47.48
Vinyl bromide	ND	9.50	--	ND	41.5	--		47.48
Acetone	ND	47.5	--	ND	113	--		47.48
Trichlorofluoromethane	ND	9.50	--	ND	53.4	--		47.48
iso-Propyl Alcohol	ND	23.7	--	ND	58.3	--		47.48
1,1-Dichloroethene	ND	9.50	--	ND	37.7	--		47.48
tert-Butyl Alcohol	ND	23.7	--	ND	71.8	--		47.48
Methylene chloride	ND	23.7	--	ND	82.3	--		47.48
3-Chloropropene	ND	9.50	--	ND	29.7	--		47.48
Carbon disulfide	ND	9.50	--	ND	29.6	--		47.48
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.50	--	ND	72.8	--		47.48
trans-1,2-Dichloroethene	ND	9.50	--	ND	37.7	--		47.48
1,1-Dichloroethane	566	9.50	--	2290	38.5	--		47.48
Methyl tert butyl ether	ND	9.50	--	ND	34.3	--		47.48
2-Butanone	ND	23.7	--	ND	69.9	--		47.48
cis-1,2-Dichloroethene	32.8	9.50	--	130	37.7	--		47.48
Ethyl Acetate	ND	23.7	--	ND	85.4	--		47.48

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-01 D
Client ID: RAW AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:01
Date Received: 12/21/16
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	9.50	--	ND	46.4	--		47.48
Tetrahydrofuran	ND	23.7	--	ND	69.9	--		47.48
1,2-Dichloroethane	ND	9.50	--	ND	38.5	--		47.48
n-Hexane	16.2	9.50	--	57.1	33.5	--		47.48
1,1,1-Trichloroethane	1530	9.50	--	8350	51.8	--		47.48
Benzene	12.2	9.50	--	39.0	30.3	--		47.48
Carbon tetrachloride	ND	9.50	--	ND	59.8	--		47.48
Cyclohexane	25.2	9.50	--	86.7	32.7	--		47.48
1,2-Dichloropropane	ND	9.50	--	ND	43.9	--		47.48
Bromodichloromethane	ND	9.50	--	ND	63.6	--		47.48
1,4-Dioxane	ND	9.50	--	ND	34.2	--		47.48
Trichloroethene	91.1	9.50	--	490	51.1	--		47.48
2,2,4-Trimethylpentane	22.1	9.50	--	103	44.4	--		47.48
Heptane	ND	9.50	--	ND	38.9	--		47.48
cis-1,3-Dichloropropene	ND	9.50	--	ND	43.1	--		47.48
4-Methyl-2-pentanone	ND	23.7	--	ND	97.1	--		47.48
trans-1,3-Dichloropropene	ND	9.50	--	ND	43.1	--		47.48
1,1,2-Trichloroethane	ND	9.50	--	ND	51.8	--		47.48
Toluene	ND	9.50	--	ND	35.8	--		47.48
2-Hexanone	ND	9.50	--	ND	38.9	--		47.48
Dibromochloromethane	ND	9.50	--	ND	80.9	--		47.48
1,2-Dibromoethane	ND	9.50	--	ND	73.0	--		47.48
Tetrachloroethene	36.7	9.50	--	249	64.4	--		47.48
Chlorobenzene	ND	9.50	--	ND	43.8	--		47.48
Ethylbenzene	ND	9.50	--	ND	41.3	--		47.48
p/m-Xylene	ND	19.0	--	ND	82.5	--		47.48
Bromoform	ND	9.50	--	ND	98.2	--		47.48
Styrene	ND	9.50	--	ND	40.4	--		47.48

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-01 D
Client ID: RAW AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:01
Date Received: 12/21/16
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	12.2	9.50	--	83.8	65.2	--		47.48
o-Xylene	ND	9.50	--	ND	41.3	--		47.48
4-Ethyltoluene	ND	9.50	--	ND	46.7	--		47.48
1,3,5-Trimethylbenzene	ND	9.50	--	ND	46.7	--		47.48
1,2,4-Trimethylbenzene	ND	9.50	--	ND	46.7	--		47.48
Benzyl chloride	ND	9.50	--	ND	49.2	--		47.48
1,3-Dichlorobenzene	ND	9.50	--	ND	57.1	--		47.48
1,4-Dichlorobenzene	ND	9.50	--	ND	57.1	--		47.48
1,2-Dichlorobenzene	ND	9.50	--	ND	57.1	--		47.48
1,2,4-Trichlorobenzene	ND	9.50	--	ND	70.5	--		47.48
Hexachlorobutadiene	ND	9.50	--	ND	101	--		47.48

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

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-02 D
Client ID: MID AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/29/16 00:34
Analyst: RY

Date Collected: 12/21/16 08:06
Date Received: 12/21/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.695	0.500	--	3.44	2.47	--		2.5
Chloromethane	ND	0.500	--	ND	1.03	--		2.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.508	0.500	--	3.55	3.49	--		2.5
Vinyl chloride	1.94	0.500	--	4.96	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	133	0.500	--	351	1.32	--		2.5
Ethyl Alcohol	ND	12.5	--	ND	23.6	--		2.5
Vinyl bromide	ND	0.500	--	ND	2.19	--		2.5
Acetone	6.38	2.50	--	15.2	5.94	--		2.5
Trichlorofluoromethane	0.552	0.500	--	3.10	2.81	--		2.5
iso-Propyl Alcohol	ND	1.25	--	ND	3.07	--		2.5
1,1-Dichloroethene	2.31	0.500	--	9.16	1.98	--		2.5
tert-Butyl Alcohol	ND	1.25	--	ND	3.79	--		2.5
Methylene chloride	1.56	1.25	--	5.42	4.34	--		2.5
3-Chloropropene	ND	0.500	--	ND	1.57	--		2.5
Carbon disulfide	ND	0.500	--	ND	1.56	--		2.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.500	--	ND	3.83	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	97.7	0.500	--	395	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	1.74	0.500	--	6.90	1.98	--		2.5
Ethyl Acetate	ND	1.25	--	ND	4.50	--		2.5

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-02 D
Client ID: MID AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:06
Date Received: 12/21/16
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	0.740	0.500	--	3.61	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	93.0	0.500	--	507	2.73	--		2.5
Benzene	ND	0.500	--	ND	1.60	--		2.5
Carbon tetrachloride	ND	0.500	--	ND	3.15	--		2.5
Cyclohexane	0.515	0.500	--	1.77	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	ND	0.500	--	ND	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	ND	0.500	--	ND	3.39	--		2.5
Chlorobenzene	ND	0.500	--	ND	2.30	--		2.5
Ethylbenzene	ND	0.500	--	ND	2.17	--		2.5
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

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-02 D
Client ID: MID AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:06
Date Received: 12/21/16
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								
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	88		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	86		60-140

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-03 D
Client ID: EFFLUENT AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/29/16 01:34
Analyst: RY

Date Collected: 12/21/16 08:11
Date Received: 12/21/16
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	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	2.24	1.00	--	5.73	2.56	--		5
1,3-Butadiene	ND	1.00	--	ND	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	225	1.00	--	594	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	ND	1.00	--	ND	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	ND	1.00	--	ND	3.96	--		5
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-03 D
Client ID: EFFLUENT AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:11
Date Received: 12/21/16
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	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
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
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
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

Project Name: ***Lab Number:*** L1641580

Project Number: Not Specified ***Report Date:*** 12/29/16

SAMPLE RESULTS

Lab ID: L1641580-03 D
Client ID: EFFLUENT AIR (12/21/16)
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 12/21/16 08:11
Date Received: 12/21/16
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	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	87		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	86		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/28/16 14:56

Parameter	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: WG965346-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/28/16 14:56

Parameter	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: WG965346-4								
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
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
1,1,1-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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/28/16 14:56

Parameter	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: WG965346-4								
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/28/16 14:56

Parameter	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: WG965346-4								
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
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/28/16 14:56

Parameter	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: WG965346-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: WG965346-3								
Chlorodifluoromethane	91		-		70-130	-		
Propylene	97		-		70-130	-		
Propane	84		-		70-130	-		
Dichlorodifluoromethane	118		-		70-130	-		
Chloromethane	100		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	114		-		70-130	-		
Methanol	88		-		70-130	-		
Vinyl chloride	104		-		70-130	-		
1,3-Butadiene	105		-		70-130	-		
Butane	90		-		70-130	-		
Bromomethane	108		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	100		-		70-130	-		
Vinyl bromide	111		-		70-130	-		
Acrolein	85		-		70-130	-		
Acetone	92		-		70-130	-		
Acetonitrile	91		-		70-130	-		
Trichlorofluoromethane	114		-		70-130	-		
iso-Propyl Alcohol	96		-		70-130	-		
Acrylonitrile	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: WG965346-3								
Pentane	82		-		70-130	-		
Ethyl ether	83		-		70-130	-		
1,1-Dichloroethene	101		-		70-130	-		
tert-Butyl Alcohol	86		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	96		-		70-130	-		
Carbon disulfide	94		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
Vinyl acetate	121		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	110		-		70-130	-		
Ethyl Acetate	101		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	89		-		70-130	-		
2,2-Dichloropropane	98		-		70-130	-		
1,2-Dichloroethane	107		-		70-130	-		
n-Hexane	85		-		70-130	-		
Isopropyl Ether	89		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: WG965346-3								
Ethyl-Tert-Butyl-Ether	84		-		70-130	-		
1,1,1-Trichloroethane	109		-		70-130	-		
1,1-Dichloropropene	89		-		70-130	-		
Benzene	89		-		70-130	-		
Carbon tetrachloride	114		-		70-130	-		
Cyclohexane	84		-		70-130	-		
Tertiary-Amyl Methyl Ether	85		-		70-130	-		
Dibromomethane	96		-		70-130	-		
1,2-Dichloropropane	92		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	94		-		70-130	-		
Trichloroethene	107		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Methyl Methacrylate	100		-		70-130	-		
Heptane	86		-		70-130	-		
cis-1,3-Dichloropropene	101		-		70-130	-		
4-Methyl-2-pentanone	94		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Toluene	89		-		70-130	-		
1,3-Dichloropropane	82		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: WG965346-3								
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	103		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		
Butyl Acetate	74		-		70-130	-		
Octane	77		-		70-130	-		
Tetrachloroethene	105		-		70-130	-		
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	96		-		70-130	-		
Ethylbenzene	91		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
Bromoform	110		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,2,2-Tetrachloroethane	94		-		70-130	-		
o-Xylene	96		-		70-130	-		
1,2,3-Trichloropropane	82		-		70-130	-		
Nonane (C9)	79		-		70-130	-		
Isopropylbenzene	92		-		70-130	-		
Bromobenzene	86		-		70-130	-		
o-Chlorotoluene	93		-		70-130	-		
n-Propylbenzene	92		-		70-130	-		
p-Chlorotoluene	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

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: WG965346-3								
4-Ethyltoluene	93		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	103		-		70-130	-		
Decane (C10)	82		-		70-130	-		
Benzyl chloride	104		-		70-130	-		
1,3-Dichlorobenzene	108		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
sec-Butylbenzene	92		-		70-130	-		
p-Isopropyltoluene	89		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
n-Butylbenzene	94		-		70-130	-		
1,2-Dibromo-3-chloropropane	99		-		70-130	-		
Undecane	86		-		70-130	-		
Dodecane (C12)	98		-		70-130	-		
1,2,4-Trichlorobenzene	**135**	Q	-		70-130	-		
Naphthalene	106		-		70-130	-		
1,2,3-Trichlorobenzene	119		-		70-130	-		
Hexachlorobutadiene	**131**	Q	-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG965346-5 QC Sample: L1641580-02 Client ID: MID AIR (12/21/16)						
Dichlorodifluoromethane	0.695	0.870	ppbV	22		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.508	ND	ppbV	NC		25
Vinyl chloride	1.94	2.00	ppbV	3		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	133	131	ppbV	2		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	6.38	6.54	ppbV	2		25
Trichlorofluoromethane	0.552	0.558	ppbV	1		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	2.31	2.32	ppbV	0		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	1.56	1.48	ppbV	5		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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG965346-5 QC Sample: L1641580-02 Client ID: MID AIR (12/21/16)					
1,1-Dichloroethane	97.7	97.9	ppbV	0	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	1.74	1.69	ppbV	3	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	0.740	0.808	ppbV	9	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	93.0	94.8	ppbV	2	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	0.515	0.585	ppbV	13	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG965346-5 QC Sample: L1641580-02 Client ID: MID AIR (12/21/16)					
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	ND	ND	ppbV	NC	25
2-Hexanone	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

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG965346-5 QC Sample: L1641580-02 Client ID: MID AIR (12/21/16)					
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:

Lab Number: L1641580

Project Number:

Report Date: 12/29/16

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
L1641580-01	RAW AIR (12/21/16)	1988	6.0L Can	12/19/16	234016	L1640777-02	Pass	-30.0	-1.5	-	-	-	-
L1641580-02	MID AIR (12/21/16)	990	6.0L Can	12/19/16	234016	L1640777-02	Pass	-30.0	1.7	-	-	-	-
L1641580-03	EFFLUENT AIR (12/21/16)	782	6.0L Can	12/19/16	234016	L1640777-03	Pass	-30.0	-0.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/15/16 18:05
Analyst: MB

Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

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

	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: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/15/16 18:05
Analyst: MB

Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-02
Client ID: CAN599 SHELF 57
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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								
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	96		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/15/16 20:21
Analyst: MB

Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
Field Prep: Not Specified

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

	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: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/15/16 20:21
Analyst: MB

Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1640777
Report Date: 12/29/16

Air Canister Certification Results

Lab ID: L1640777-03
Client ID: CAN 969 SHELF 58
Sample Location:
Date Collected: 12/14/16 16:00
Date Received: 12/15/16
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								
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	93		60-140
chlorobenzene-d5	91		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1641580
Report Date: 12/29/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1641580-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1641580-02A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)
L1641580-03A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1641580
Project Number:	Not Specified	**Report Date:**	12/29/16

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1641580
Project Number:	Not Specified	**Report Date:**	12/29/16

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1641580
Report Date: 12/29/16

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, SM9222D-MF**.

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: 12/22/16

ALPHA Job #: L1641580

Client Information

Client: CaRich Consultants
Address: 17 DuPont Street
Plainview NY 11803
Phone: 516-576-8894
Fax: 516-576-0093
Email: JProscia@CaRichInc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave New Hyde Park, NY
~~Project #:~~
Project Manager: Jessica Proscia
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 ☐ Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15			Sample Comments (i.e. PID)
L1641580-01	RAW Air (12/21/16)	12/21/16	8:00	8:01	30	4	SV	JP	6L	1988	/	X							
-02	Mid Air (12/21/16)	12/21/16	8:05	8:06	30	4	SV	JP	6L	990	/	X							
-03	Effluent Air (12/21/16)	12/21/16	8:10	8:11	30	4	SV	JP	6L	782	/	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:
Bob Jamison	12/21/16 11:33	Bob Jamison APL	12/21/16 11:33
H-Vlachos	12/21/16 16:30	H Vlachos	12-21-16 2145
	12/22-16 0145		12/22/01:45

e-mail: JProscia@carichinc.com

December 5, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On November 22, 2016, a raw, mid, and effluent sample was obtained from the system. See the attached air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.

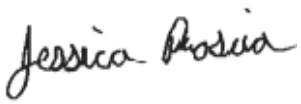
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis.
- Based on previous results, a carbon change will be performed.
- The Construction Completion Report Part B will be submitted in January 2017.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1638270
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	12/02/16

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1638270-01	RAW AIR (11/22/16)	SOIL_VAPOR	1801 FALMOUTH AVE., NEW HYDE PARK, NY	11/22/16 08:00	11/23/16
L1638270-02	MID AIR (11/22/16)	SOIL_VAPOR	1801 FALMOUTH AVE., NEW HYDE PARK, NY	11/22/16 08:05	11/23/16
L1638270-03	EFFLUENT AIR (11/22/16)	SOIL_VAPOR	1801 FALMOUTH AVE., NEW HYDE PARK, NY	11/22/16 08:10	11/23/16

Project Name:	Not Specified	**Lab Number:**	L1638270
Project Number:	Not Specified	**Report Date:**	12/02/16

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: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on November 21, 2016. The canister certification results are provided as an addendum.

Sample L1638270-01 through -03: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Sample L1638270-02 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG957230-3 LCS recovery for 1,2,4-trichlorobenzene (136%) is above the upper 130% acceptance limit. The response for this compound was elevated however it was not detected in any of the associated samples therefore no further action was required.

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: 12/02/16

AIR

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-01 D
Client ID: RAW AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/16 00:13
Analyst: MB

Date Collected: 11/22/16 08:00
Date Received: 11/23/16
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	5.77	--	ND	28.5	--		28.84
Chloromethane	ND	5.77	--	ND	11.9	--		28.84
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	5.77	--	ND	40.3	--		28.84
Vinyl chloride	25.8	5.77	--	66.0	14.7	--		28.84
1,3-Butadiene	ND	5.77	--	ND	12.8	--		28.84
Bromomethane	ND	5.77	--	ND	22.4	--		28.84
Chloroethane	1110	5.77	--	2930	15.2	--		28.84
Ethyl Alcohol	ND	144	--	ND	271	--		28.84
Vinyl bromide	ND	5.77	--	ND	25.2	--		28.84
Acetone	ND	28.8	--	ND	68.4	--		28.84
Trichlorofluoromethane	ND	5.77	--	ND	32.4	--		28.84
iso-Propyl Alcohol	ND	14.4	--	ND	35.4	--		28.84
1,1-Dichloroethene	16.9	5.77	--	67.0	22.9	--		28.84
tert-Butyl Alcohol	20.9	14.4	--	63.4	43.7	--		28.84
Methylene chloride	ND	14.4	--	ND	50.0	--		28.84
3-Chloropropene	ND	5.77	--	ND	18.1	--		28.84
Carbon disulfide	ND	5.77	--	ND	18.0	--		28.84
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.77	--	ND	44.2	--		28.84
trans-1,2-Dichloroethene	ND	5.77	--	ND	22.9	--		28.84
1,1-Dichloroethane	968	5.77	--	3920	23.4	--		28.84
Methyl tert butyl ether	ND	5.77	--	ND	20.8	--		28.84
2-Butanone	ND	14.4	--	ND	42.5	--		28.84
cis-1,2-Dichloroethene	42.9	5.77	--	170	22.9	--		28.84
Ethyl Acetate	ND	14.4	--	ND	51.9	--		28.84

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-01 D
Client ID: RAW AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:00
Date Received: 11/23/16
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	13.7	5.77	--	66.9	28.2	--		28.84
Tetrahydrofuran	ND	14.4	--	ND	42.5	--		28.84
1,2-Dichloroethane	ND	5.77	--	ND	23.4	--		28.84
n-Hexane	ND	5.77	--	ND	20.3	--		28.84
1,1,1-Trichloroethane	1910	5.77	--	10400	31.5	--		28.84
Benzene	ND	5.77	--	ND	18.4	--		28.84
Carbon tetrachloride	ND	5.77	--	ND	36.3	--		28.84
Cyclohexane	15.0	5.77	--	51.6	19.9	--		28.84
1,2-Dichloropropane	ND	5.77	--	ND	26.7	--		28.84
Bromodichloromethane	ND	5.77	--	ND	38.7	--		28.84
1,4-Dioxane	ND	5.77	--	ND	20.8	--		28.84
Trichloroethene	91.9	5.77	--	494	31.0	--		28.84
2,2,4-Trimethylpentane	6.75	5.77	--	31.5	27.0	--		28.84
Heptane	ND	5.77	--	ND	23.6	--		28.84
cis-1,3-Dichloropropene	ND	5.77	--	ND	26.2	--		28.84
4-Methyl-2-pentanone	ND	14.4	--	ND	59.0	--		28.84
trans-1,3-Dichloropropene	ND	5.77	--	ND	26.2	--		28.84
1,1,2-Trichloroethane	ND	5.77	--	ND	31.5	--		28.84
Toluene	13.0	5.77	--	49.0	21.7	--		28.84
2-Hexanone	ND	5.77	--	ND	23.6	--		28.84
Dibromochloromethane	ND	5.77	--	ND	49.2	--		28.84
1,2-Dibromoethane	ND	5.77	--	ND	44.3	--		28.84
Tetrachloroethene	55.1	5.77	--	374	39.1	--		28.84
Chlorobenzene	ND	5.77	--	ND	26.6	--		28.84
Ethylbenzene	ND	5.77	--	ND	25.1	--		28.84
p/m-Xylene	ND	11.5	--	ND	50.0	--		28.84
Bromoform	ND	5.77	--	ND	59.7	--		28.84
Styrene	ND	5.77	--	ND	24.6	--		28.84

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-01 D
Client ID: RAW AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:00
Date Received: 11/23/16
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	5.77	--	ND	39.6	--		28.84
o-Xylene	ND	5.77	--	ND	25.1	--		28.84
4-Ethyltoluene	ND	5.77	--	ND	28.4	--		28.84
1,3,5-Trimethylbenzene	ND	5.77	--	ND	28.4	--		28.84
1,2,4-Trimethylbenzene	ND	5.77	--	ND	28.4	--		28.84
Benzyl chloride	ND	5.77	--	ND	29.9	--		28.84
1,3-Dichlorobenzene	ND	5.77	--	ND	34.7	--		28.84
1,4-Dichlorobenzene	ND	5.77	--	ND	34.7	--		28.84
1,2-Dichlorobenzene	ND	5.77	--	ND	34.7	--		28.84
1,2,4-Trichlorobenzene	ND	5.77	--	ND	42.8	--		28.84
Hexachlorobutadiene	ND	5.77	--	ND	61.5	--		28.84

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

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-02 D
Client ID: MID AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/16 00:43
Analyst: MB

Date Collected: 11/22/16 08:05
Date Received: 11/23/16
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	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	9.62	2.00	--	24.6	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	378	2.00	--	997	5.28	--		10
Ethyl Alcohol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	27.3	10.0	--	64.9	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
iso-Propyl Alcohol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	8.85	2.00	--	35.1	7.93	--		10
tert-Butyl Alcohol	9.79	5.00	--	29.7	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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	2.33	2.00	--	9.24	7.93	--		10
1,1-Dichloroethane	442	2.00	--	1790	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	14.6	2.00	--	57.9	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-02 D
Client ID: MID AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:05
Date Received: 11/23/16
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	5.66	2.00	--	27.6	9.77	--		10
Tetrahydrofuran	16.6	5.00	--	49.0	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	2.88	2.00	--	10.2	7.05	--		10
1,1,1-Trichloroethane	980	2.00	--	5350	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	7.97	2.00	--	27.4	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	22.8	2.00	--	123	10.7	--		10
2,2,4-Trimethylpentane	3.59	2.00	--	16.8	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	6.40	2.00	--	43.4	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-02 D
Client ID: MID AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:05
Date Received: 11/23/16
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	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	76		60-140
Bromochloromethane	76		60-140
chlorobenzene-d5	81		60-140

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-03 D
Client ID: EFFLUENT AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 12/02/16 01:14
Analyst: MB

Date Collected: 11/22/16 08:10
Date Received: 11/23/16
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	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	5.48	2.00	--	14.0	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	201	2.00	--	530	5.28	--		10
Ethyl Alcohol	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
iso-Propyl Alcohol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	8.77	2.00	--	34.8	7.93	--		10
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	480	2.00	--	1940	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	2.38	2.00	--	9.44	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-03 D
Client ID: EFFLUENT AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:10
Date Received: 11/23/16
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	2.00	--	ND	9.77	--		10
Tetrahydrofuran	22.8	5.00	--	67.2	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	21.5	2.00	--	117	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	ND	2.00	--	ND	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	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1638270

Project Number: Not Specified ***Report Date:*** 12/02/16

SAMPLE RESULTS

Lab ID: L1638270-03 D
Client ID: EFFLUENT AIR (11/22/16)
Sample Location: 1801 FALMOUTH AVE., NEW HYDE P

Date Collected: 11/22/16 08:10
Date Received: 11/23/16
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	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	79		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	81		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/01/16 12:33

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): 01-03 Batch: WG957230-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/01/16 12:33

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): 01-03 Batch: WG957230-4								
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
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
1,1,1-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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/01/16 12:33

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): 01-03 Batch: WG957230-4								
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/01/16 12:33

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): 01-03 Batch: WG957230-4								
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
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 12/01/16 12:33

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): 01-03 Batch: WG957230-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

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: WG957230-3								
Chlorodifluoromethane	84		-		70-130	-		
Propylene	97		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	113		-		70-130	-		
Chloromethane	96		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	106		-		70-130	-		
Methanol	83		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	101		-		70-130	-		
Butane	85		-		70-130	-		
Bromomethane	113		-		70-130	-		
Chloroethane	110		-		70-130	-		
Ethyl Alcohol	93		-		70-130	-		
Dichlorofluoromethane	97		-		70-130	-		
Vinyl bromide	114		-		70-130	-		
Acrolein	95		-		70-130	-		
Acetone	83		-		70-130	-		
Acetonitrile	100		-		70-130	-		
Trichlorofluoromethane	101		-		70-130	-		
iso-Propyl Alcohol	89		-		70-130	-		
Acrylonitrile	94		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

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: WG957230-3								
Pentane	85		-		70-130	-		
Ethyl ether	85		-		70-130	-		
1,1-Dichloroethene	95		-		70-130	-		
tert-Butyl Alcohol	75		-		70-130	-		
Methylene chloride	96		-		70-130	-		
3-Chloropropene	98		-		70-130	-		
Carbon disulfide	98		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	98		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
Vinyl acetate	99		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	109		-		70-130	-		
Ethyl Acetate	104		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	89		-		70-130	-		
2,2-Dichloropropane	91		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	88		-		70-130	-		
Isopropyl Ether	87		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

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: WG957230-3								
Ethyl-Tert-Butyl-Ether	82		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	88		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	87		-		70-130	-		
Tertiary-Amyl Methyl Ether	82		-		70-130	-		
Dibromomethane	87		-		70-130	-		
1,2-Dichloropropane	92		-		70-130	-		
Bromodichloromethane	91		-		70-130	-		
1,4-Dioxane	86		-		70-130	-		
Trichloroethene	94		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Methyl Methacrylate	94		-		70-130	-		
Heptane	84		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	88		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Toluene	107		-		70-130	-		
1,3-Dichloropropane	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

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: WG957230-3								
2-Hexanone	99		-		70-130	-		
Dibromochloromethane	114		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		
Butyl Acetate	95		-		70-130	-		
Octane	96		-		70-130	-		
Tetrachloroethene	112		-		70-130	-		
1,1,1,2-Tetrachloroethane	104		-		70-130	-		
Chlorobenzene	112		-		70-130	-		
Ethylbenzene	108		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	114		-		70-130	-		
Styrene	110		-		70-130	-		
1,1,2,2-Tetrachloroethane	121		-		70-130	-		
o-Xylene	110		-		70-130	-		
1,2,3-Trichloropropane	100		-		70-130	-		
Nonane (C9)	91		-		70-130	-		
Isopropylbenzene	105		-		70-130	-		
Bromobenzene	100		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	106		-		70-130	-		
p-Chlorotoluene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

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: WG957230-3								
4-Ethyltoluene	101		-		70-130	-		
1,3,5-Trimethylbenzene	109		-		70-130	-		
tert-Butylbenzene	105		-		70-130	-		
1,2,4-Trimethylbenzene	113		-		70-130	-		
Decane (C10)	97		-		70-130	-		
Benzyl chloride	115		-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		
sec-Butylbenzene	104		-		70-130	-		
p-Isopropyltoluene	99		-		70-130	-		
1,2-Dichlorobenzene	117		-		70-130	-		
n-Butylbenzene	106		-		70-130	-		
1,2-Dibromo-3-chloropropane	101		-		70-130	-		
Undecane	102		-		70-130	-		
Dodecane (C12)	112		-		70-130	-		
1,2,4-Trichlorobenzene	**136**	Q	-		70-130	-		
Naphthalene	118		-		70-130	-		
1,2,3-Trichlorobenzene	121		-		70-130	-		
Hexachlorobutadiene	123		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG957230-5 QC Sample: L1638267-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.317	0.307	ppbV	3		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	1.25	1.18	ppbV	6		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	16.1	13.8	ppbV	15		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	17.2	16.1	ppbV	7		25
Trichlorofluoromethane	15.2	14.2	ppbV	7		25
iso-Propyl Alcohol	19.7	16.5	ppbV	18		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	1.00	0.803	ppbV	22		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	0.279	0.269	ppbV	4		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.40	1.35	ppbV	4		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG957230-5 QC Sample: L1638267-01 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	3.00	2.92	ppbV	3	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	0.656	0.704	ppbV	7	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	0.870	0.858	ppbV	1	25
1,1,1-Trichloroethane	63.8	61.6	ppbV	4	25
Benzene	2.34	2.25	ppbV	4	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	1.09	1.01	ppbV	8	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	0.688	0.716	ppbV	4	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	0.759	0.713	ppbV	6	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG957230-5 QC Sample: L1638267-01 Client ID: DUP Sample					
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	5.95	5.59	ppbV	6	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	6.44	6.17	ppbV	4	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	1.08	1.06	ppbV	2	25
p/m-Xylene	3.64	3.54	ppbV	3	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	1.16	1.14	ppbV	2	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.433	0.414	ppbV	4	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG957230-5 QC Sample: L1638267-01 Client ID: DUP Sample					
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:

Lab Number: L1638270

Project Number:

Report Date: 12/02/16

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
L1638270-01	RAW AIR (11/22/16)	933	6.0L Can	11/21/16	232473	L1637401-01	Pass	-29.7	-1.4	-	-	-	-
L1638270-02	MID AIR (11/22/16)	1620	6.0L Can	11/21/16	232473	L1637401-01	Pass	-29.6	-0.2	-	-	-	-
L1638270-03	EFFLUENT AIR (11/22/16)	1880	6.0L Can	11/21/16	232473	L1637401-01	Pass	-28.1	0.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/17/16 18:13
Analyst: RY

Date Collected: 11/16/16 16:00
Date Received: 11/17/16
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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								
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

	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: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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	102		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/17/16 18:13
Analyst: RY

Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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
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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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								
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1637401
Report Date: 12/02/16

Air Canister Certification Results

Lab ID: L1637401-01
Client ID: CAN 1809 SHELF 47
Sample Location:
Date Collected: 11/16/16 16:00
Date Received: 11/17/16
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								
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	100		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	96		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1638270
Report Date: 12/02/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1638270-01A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1638270-02A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1638270-03A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1638270
Project Number:	Not Specified	**Report Date:**	12/02/16

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1638270
Project Number:	Not Specified	**Report Date:**	12/02/16

Data Qualifiers

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, SM9222D-MF**.

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: 11/24/16

ALPHA Job #: L1638270

Client Information

Client: Ca Rich Consultants, Inc
Address: 17 DuPont Street, Plainview NY 11803
Phone: 516-576-8424
Fax:
Email: JProscia@CarichInc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Ave New Hyde Park, NY
Project #:
Project Manager: Jessica Proscia
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)
38270.01	Raw Air (11/22/16)	11/22/16	8:00	8:00	30	5	SV	JP	6L	933	/	X						
.02	Mid Air (11/22/16)	11/22/16	8:05	8:05	30	5	SV	JP	6L	1620	/	X						
.03	Effluent Air (11/22/16)	11/22/16	8:10	8:10	20	5	SV	JP	6L	1880	/	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:
	11/23/16 9:54		11/23/16 9:54
	11/23/16 21:43		11-23-16 21:43
	11-24-16 0256		11/24/16 0256

e-mail: JProscia@carichinc.com

November 4, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 12, 2016, CA RICH performed a site walk through with the NYSDEC to review the newly installed SVE system. A Raw and Effluent sample was also obtained from the system. See the attached RAW and Effluent air sample analytical report.
- Weekly site visits continue to be performed. The SVE system has been running with no issues.

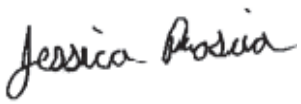
The following will be performed this month:

- Weekly site visits will continue to be performed.
- As per the NYSDEC, a raw, mid, and effluent sample will be obtained from the system on a monthly basis. Based on previous results, a carbon change out may be performed.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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ANALYTICAL REPORT

Lab Number:	L1632762
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	10/20/16

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1632762-01	RAW AIR (10/12/16)	SOIL_VAPOR	1801 FALMOUTH AVENUE, NEW HYDE PARK, NY	10/12/16 14:01	10/13/16
L1632762-02	EFFLUENT (10/12/16)	SOIL_VAPOR	1801 FALMOUTH AVENUE, NEW HYDE PARK, NY	10/12/16 14:06	10/13/16

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 10, 2016. The canister certification results are provided as an addendum.

Samples L1632762-01 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: 10/20/16

AIR

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-01 D
Client ID: RAW AIR (10/12/16)
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/20/16 07:49
Analyst: MB

Date Collected: 10/12/16 14:01
Date Received: 10/13/16
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	22.6	--	ND	112	--		113.1
Chloromethane	ND	22.6	--	ND	46.7	--		113.1
Freon-114	ND	22.6	--	ND	158	--		113.1
Vinyl chloride	30.2	22.6	--	77.2	57.8	--		113.1
1,3-Butadiene	ND	22.6	--	ND	50.0	--		113.1
Bromomethane	ND	22.6	--	ND	87.8	--		113.1
Chloroethane	1350	22.6	--	3560	59.6	--		113.1
Ethanol	ND	566	--	ND	1070	--		113.1
Vinyl bromide	ND	22.6	--	ND	98.8	--		113.1
Acetone	ND	113	--	ND	268	--		113.1
Trichlorofluoromethane	ND	22.6	--	ND	127	--		113.1
Isopropanol	ND	56.6	--	ND	139	--		113.1
1,1-Dichloroethene	26.1	22.6	--	103	89.6	--		113.1
Tertiary butyl Alcohol	ND	56.6	--	ND	172	--		113.1
Methylene chloride	ND	56.6	--	ND	197	--		113.1
3-Chloropropene	ND	22.6	--	ND	70.7	--		113.1
Carbon disulfide	ND	22.6	--	ND	70.4	--		113.1
Freon-113	ND	22.6	--	ND	173	--		113.1
trans-1,2-Dichloroethene	ND	22.6	--	ND	89.6	--		113.1
1,1-Dichloroethane	1460	22.6	--	5910	91.5	--		113.1
Methyl tert butyl ether	ND	22.6	--	ND	81.5	--		113.1
2-Butanone	ND	56.6	--	ND	167	--		113.1
cis-1,2-Dichloroethene	ND	22.6	--	ND	89.6	--		113.1
Ethyl Acetate	ND	56.6	--	ND	204	--		113.1

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-01 D
Client ID: RAW AIR (10/12/16)
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE

Date Collected: 10/12/16 14:01
Date Received: 10/13/16
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	22.6	--	ND	110	--		113.1
Tetrahydrofuran	ND	56.6	--	ND	167	--		113.1
1,2-Dichloroethane	ND	22.6	--	ND	91.5	--		113.1
n-Hexane	ND	22.6	--	ND	79.6	--		113.1
1,1,1-Trichloroethane	4310	22.6	--	23500	123	--		113.1
Benzene	ND	22.6	--	ND	72.2	--		113.1
Carbon tetrachloride	ND	22.6	--	ND	142	--		113.1
Cyclohexane	27.8	22.6	--	95.7	77.8	--		113.1
1,2-Dichloropropane	ND	22.6	--	ND	104	--		113.1
Bromodichloromethane	ND	22.6	--	ND	151	--		113.1
1,4-Dioxane	ND	22.6	--	ND	81.4	--		113.1
Trichloroethene	76.0	22.6	--	408	121	--		113.1
2,2,4-Trimethylpentane	ND	22.6	--	ND	106	--		113.1
Heptane	ND	22.6	--	ND	92.6	--		113.1
cis-1,3-Dichloropropene	ND	22.6	--	ND	103	--		113.1
4-Methyl-2-pentanone	ND	56.6	--	ND	232	--		113.1
trans-1,3-Dichloropropene	ND	22.6	--	ND	103	--		113.1
1,1,2-Trichloroethane	ND	22.6	--	ND	123	--		113.1
Toluene	ND	22.6	--	ND	85.2	--		113.1
2-Hexanone	ND	22.6	--	ND	92.6	--		113.1
Dibromochloromethane	ND	22.6	--	ND	193	--		113.1
1,2-Dibromoethane	ND	22.6	--	ND	174	--		113.1
Tetrachloroethene	76.6	22.6	--	519	153	--		113.1
Chlorobenzene	ND	22.6	--	ND	104	--		113.1
Ethylbenzene	ND	22.6	--	ND	98.2	--		113.1
p/m-Xylene	ND	45.2	--	ND	196	--		113.1
Bromoform	ND	22.6	--	ND	234	--		113.1
Styrene	ND	22.6	--	ND	96.2	--		113.1

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-01 D
Client ID: RAW AIR (10/12/16)
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE

Date Collected: 10/12/16 14:01
Date Received: 10/13/16
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	22.6	--	ND	155	--		113.1
o-Xylene	ND	22.6	--	ND	98.2	--		113.1
4-Ethyltoluene	ND	22.6	--	ND	111	--		113.1
1,3,5-Trimethylbenzene	ND	22.6	--	ND	111	--		113.1
1,2,4-Trimethylbenzene	ND	22.6	--	ND	111	--		113.1
Benzyl chloride	ND	22.6	--	ND	117	--		113.1
1,3-Dichlorobenzene	ND	22.6	--	ND	136	--		113.1
1,4-Dichlorobenzene	ND	22.6	--	ND	136	--		113.1
1,2-Dichlorobenzene	ND	22.6	--	ND	136	--		113.1
1,2,4-Trichlorobenzene	ND	22.6	--	ND	168	--		113.1
Hexachlorobutadiene	ND	22.6	--	ND	241	--		113.1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	117		60-140
Bromochloromethane	115		60-140
chlorobenzene-d5	115		60-140

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-02 D
Client ID: EFFLUENT (10/12/16)
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/20/16 03:11
Analyst: MB

Date Collected: 10/12/16 14:06
Date Received: 10/13/16
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	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	13.5	2.00	--	34.5	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	692	2.00	--	1830	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	6.99	5.00	--	24.3	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	ND	2.00	--	ND	7.93	--		10
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-02 D Date Collected: 10/12/16 14:06
Client ID: EFFLUENT (10/12/16) Date Received: 10/13/16
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE 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	2.00	--	ND	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	ND	2.00	--	ND	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	ND	2.00	--	ND	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
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

Project Name: ***Lab Number:*** L1632762

Project Number: Not Specified ***Report Date:*** 10/20/16

SAMPLE RESULTS

Lab ID: L1632762-02 D
Client ID: EFFLUENT (10/12/16)
Sample Location: 1801 FALMOUTH AVENUE, NEW HYDE

Date Collected: 10/12/16 14:06
Date Received: 10/13/16
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	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	105		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	101		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/19/16 15:16

Parameter	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: WG943769-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/19/16 15:16

Parameter	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: WG943769-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/19/16 15:16

Parameter	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: WG943769-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: WG943769-3								
Chlorodifluoromethane	95		-		70-130	-		
Propylene	115		-		70-130	-		
Propane	100		-		70-130	-		
Dichlorodifluoromethane	91		-		70-130	-		
Chloromethane	113		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	105		-		70-130	-		
Methanol	87		-		70-130	-		
Vinyl chloride	112		-		70-130	-		
1,3-Butadiene	118		-		70-130	-		
Butane	95		-		70-130	-		
Bromomethane	105		-		70-130	-		
Chloroethane	110		-		70-130	-		
Ethyl Alcohol	106		-		70-130	-		
Dichlorofluoromethane	99		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	98		-		70-130	-		
Acetone	84		-		70-130	-		
Acetonitrile	112		-		70-130	-		
Trichlorofluoromethane	100		-		70-130	-		
iso-Propyl Alcohol	100		-		70-130	-		
Acrylonitrile	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: WG943769-3								
Pentane	97		-		70-130	-		
Ethyl ether	104		-		70-130	-		
1,1-Dichloroethene	110		-		70-130	-		
tert-Butyl Alcohol	102		-		70-130	-		
Methylene chloride	111		-		70-130	-		
3-Chloropropene	129		-		70-130	-		
Carbon disulfide	111		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		-		70-130	-		
trans-1,2-Dichloroethene	95		-		70-130	-		
1,1-Dichloroethane	103		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
Vinyl acetate	116		-		70-130	-		
2-Butanone	101		-		70-130	-		
cis-1,2-Dichloroethene	114		-		70-130	-		
Ethyl Acetate	105		-		70-130	-		
Chloroform	98		-		70-130	-		
Tetrahydrofuran	104		-		70-130	-		
2,2-Dichloropropane	87		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	122		-		70-130	-		
Isopropyl Ether	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: WG943769-3								
Ethyl-Tert-Butyl-Ether	107		-		70-130	-		
1,1,1-Trichloroethane	111		-		70-130	-		
1,1-Dichloropropene	113		-		70-130	-		
Benzene	115		-		70-130	-		
Carbon tetrachloride	110		-		70-130	-		
Cyclohexane	122		-		70-130	-		
Tertiary-Amyl Methyl Ether	104		-		70-130	-		
Dibromomethane	107		-		70-130	-		
1,2-Dichloropropane	127		-		70-130	-		
Bromodichloromethane	116		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	112		-		70-130	-		
2,2,4-Trimethylpentane	122		-		70-130	-		
Methyl Methacrylate	74		-		70-130	-		
Heptane	125		-		70-130	-		
cis-1,3-Dichloropropene	125		-		70-130	-		
4-Methyl-2-pentanone	124		-		70-130	-		
trans-1,3-Dichloropropene	106		-		70-130	-		
1,1,2-Trichloroethane	119		-		70-130	-		
Toluene	108		-		70-130	-		
1,3-Dichloropropane	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: WG943769-3								
2-Hexanone	119		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	111		-		70-130	-		
Butyl Acetate	105		-		70-130	-		
Octane	101		-		70-130	-		
Tetrachloroethene	102		-		70-130	-		
1,1,1,2-Tetrachloroethane	97		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	111		-		70-130	-		
p/m-Xylene	112		-		70-130	-		
Bromoform	103		-		70-130	-		
Styrene	111		-		70-130	-		
1,1,2,2-Tetrachloroethane	120		-		70-130	-		
o-Xylene	115		-		70-130	-		
1,2,3-Trichloropropane	106		-		70-130	-		
Nonane (C9)	112		-		70-130	-		
Isopropylbenzene	107		-		70-130	-		
Bromobenzene	107		-		70-130	-		
o-Chlorotoluene	101		-		70-130	-		
n-Propylbenzene	99		-		70-130	-		
p-Chlorotoluene	105		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

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: WG943769-3								
4-Ethyltoluene	110		-		70-130	-		
1,3,5-Trimethylbenzene	111		-		70-130	-		
tert-Butylbenzene	106		-		70-130	-		
1,2,4-Trimethylbenzene	118		-		70-130	-		
Decane (C10)	114		-		70-130	-		
Benzyl chloride	114		-		70-130	-		
1,3-Dichlorobenzene	111		-		70-130	-		
1,4-Dichlorobenzene	109		-		70-130	-		
sec-Butylbenzene	107		-		70-130	-		
p-Isopropyltoluene	96		-		70-130	-		
1,2-Dichlorobenzene	111		-		70-130	-		
n-Butylbenzene	114		-		70-130	-		
1,2-Dibromo-3-chloropropane	107		-		70-130	-		
Undecane	119		-		70-130	-		
Dodecane (C12)	**132**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Naphthalene	109		-		70-130	-		
1,2,3-Trichlorobenzene	113		-		70-130	-		
Hexachlorobutadiene	111		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG943769-5 QC Sample: L1632747-01 Client ID: DUP Sample						
Dichlorodifluoromethane	0.307	0.292	ppbV	5		25
Chloromethane	0.472	0.515	ppbV	9		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	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	3.82	3.89	ppbV	2		25
Trichlorofluoromethane	ND	0.208	ppbV	NC		25
iso-Propyl Alcohol	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	3.58	3.71	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: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG943769-5 QC Sample: L1632747-01 Client ID: DUP Sample					
2-Butanone	ND	ND	ppbV	NC	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
Benzene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.215	0.221	ppbV	3	25
2-Hexanone	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG943769-5 QC Sample: L1632747-01 Client ID: DUP Sample					
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
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:

Lab Number: L1632762

Project Number:

Report Date: 10/20/16

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
L1632762-01	RAW AIR (10/12/16)	697	6.0L Can	10/10/16	229992	L1631979-01	Pass	-29.9	-1.5	-	-	-	-
L1632762-02	EFFLUENT (10/12/16)	1575	6.0L Can	10/10/16	229992	L1631979-01	Pass	-29.7	-1.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/07/16 09:51
Analyst: MB

Date Collected: 10/06/16 16:00
Date Received: 10/07/16
Field Prep: Not Specified

	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
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Date Collected: 10/06/16 16:00
Date Received: 10/07/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Date Collected: 10/06/16 16:00
Date Received: 10/07/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
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
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Date Collected: 10/06/16 16:00
Date Received: 10/07/16
Field Prep: Not Specified

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

	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: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:

Date Collected: 10/06/16 16:00
Date Received: 10/07/16
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	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/07/16 09:51
Analyst: MB

Date Collected: 10/06/16 16:00
Date Received: 10/07/16
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								
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: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Date Collected: 10/06/16 16:00
Date Received: 10/07/16
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1631979
Report Date: 10/20/16

Air Canister Certification Results

Lab ID: L1631979-01
Client ID: CAN 1858 SHELF 46
Sample Location:
Date Collected: 10/06/16 16:00
Date Received: 10/07/16
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								
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	94		60-140
chlorobenzene-d5	92		60-140

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1632762
Report Date: 10/20/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1632762-01A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1632762-02A	Canister - 6 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1632762
Project Number:	Not Specified	**Report Date:**	10/20/16

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1632762
Project Number:	Not Specified	**Report Date:**	10/20/16

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1632762
Report Date: 10/20/16

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, SM9222D-MF**.

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.

Serial_No:10201615:05

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: 10/14/16

ALPHA Job #: L1632760

Client Information

Client: Ca Rich Consultants
Address: 17 DuPont Street
Plainview NY 11803
Phone: 516-576-8842
Fax:
Email: JProscia@Carichinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Avenue New Hyde Park, NY
Project #:
Project Manager: Jessica Proscia
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)
32762.01	RAW Air (10/12/16)	10/12/16	2:00	2:01	30	5	SV	JP	6L	697	/	X						
.02	Effluent (10/12/16)	10/12/16	2:05	2:06	30	5	SV	JP	6L	1575	/	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:
Dave Kuhn ALS	10/13/16 01250	Dave Kuhn ALS	10/13/16 01250
Tom Tobin	10/13/16 2000	Tom Tobin	10-13-16 2000
SL	10-14-16 0240	SL	10/14/16 0250
	10/14/16 0725		10/14/16 07:25

e-mail: JProscia@carichinc.com

October 10, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – September 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On September 21, 2016, the SVE system start-up test was performed. The system was turned off after the start-up test was performed.
- On September 27, 2016, the SVE system was turned on and a RAW air sample was obtained. The SVE system was left on. See the attached RAW air sample analytical report.
- Once the system was turned on, CA RICH has visited the site weekly. The SVE system has been running with no issues.

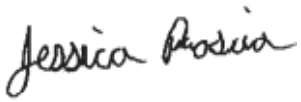
The following will be performed this month:

- On October 12, 2016, CA RICH will perform a site walk through with the NYSDEC to review the newly installed SVE system.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.



Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

email list

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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

ANALYTICAL REPORT

Lab Number:	L1630676
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	Not Specified
Project Number:	Not Specified
Report Date:	10/05/16

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1630676-01	RAW AIR	SOIL_VAPOR	1801 FALMOUTH AVE NEW HYDE PARK, NY	09/27/16 16:00	09/28/16

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

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:	Not Specified	**Lab Number:**	L1630676
Project Number:	Not Specified	**Report Date:**	10/05/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 23, 2016. The canister certification results are provided as an addendum.

Sample L1630676-01: The samples were diluted and re-analyzed to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

The WG938699-3 LCS recoveries for Vinyl Acetate (132%), Carbon Tetrachloride (134%), Bromodichloromethane (131%) and 4-Methyl-2-Pentanone (132%) are above the upper 130% acceptance limit. The response for these compounds was elevated however they were not detected in any of the associated samples therefore no further action was required.

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: 10/05/16

AIR

Project Name: ***Lab Number:*** L1630676

Project Number: Not Specified ***Report Date:*** 10/05/16

SAMPLE RESULTS

Lab ID: L1630676-01 D
Client ID: RAW AIR
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 10/05/16 01:38
Analyst: MB

Date Collected: 09/27/16 16:00
Date Received: 09/28/16
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	78.1	37.2	--	386	184	--		185.9
Chloromethane	ND	37.2	--	ND	76.8	--		185.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	37.2	--	ND	260	--		185.9
Vinyl chloride	445	37.2	--	1140	95.1	--		185.9
1,3-Butadiene	ND	37.2	--	ND	82.3	--		185.9
Bromomethane	ND	37.2	--	ND	144	--		185.9
Chloroethane	35000	37.2	--	92400	98.2	--	E	185.9
Ethyl Alcohol	ND	930	--	ND	1750	--		185.9
Vinyl bromide	ND	37.2	--	ND	163	--		185.9
Acetone	658	186	--	1560	442	--		185.9
Trichlorofluoromethane	ND	37.2	--	ND	209	--		185.9
iso-Propyl Alcohol	ND	93.0	--	ND	229	--		185.9
1,1-Dichloroethene	116	37.2	--	460	147	--		185.9
tert-Butyl Alcohol	ND	93.0	--	ND	282	--		185.9
Methylene chloride	ND	93.0	--	ND	323	--		185.9
3-Chloropropene	ND	37.2	--	ND	116	--		185.9
Carbon disulfide	ND	37.2	--	ND	116	--		185.9
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	37.2	--	ND	285	--		185.9
trans-1,2-Dichloroethene	ND	37.2	--	ND	147	--		185.9
1,1-Dichloroethane	14300	37.2	--	57900	151	--		185.9
Methyl tert butyl ether	ND	37.2	--	ND	134	--		185.9
2-Butanone	778	93.0	--	2290	274	--		185.9
cis-1,2-Dichloroethene	73.2	37.2	--	290	147	--		185.9
Ethyl Acetate	ND	93.0	--	ND	335	--		185.9

Project Name: ***Lab Number:*** L1630676

Project Number: Not Specified ***Report Date:*** 10/05/16

SAMPLE RESULTS

Lab ID: L1630676-01 D
Client ID: RAW AIR
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR

Date Collected: 09/27/16 16:00
Date Received: 09/28/16
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	37.2	--	ND	182	--		185.9
Tetrahydrofuran	3080	93.0	--	9080	274	--		185.9
1,2-Dichloroethane	ND	37.2	--	ND	151	--		185.9
n-Hexane	48.7	37.2	--	172	131	--		185.9
1,1,1-Trichloroethane	16100	37.2	--	87800	203	--		185.9
Benzene	ND	37.2	--	ND	119	--		185.9
Carbon tetrachloride	ND	37.2	--	ND	234	--		185.9
Cyclohexane	109	37.2	--	375	128	--		185.9
1,2-Dichloropropane	ND	37.2	--	ND	172	--		185.9
Bromodichloromethane	ND	37.2	--	ND	249	--		185.9
1,4-Dioxane	ND	37.2	--	ND	134	--		185.9
Trichloroethene	180	37.2	--	967	200	--		185.9
2,2,4-Trimethylpentane	42.6	37.2	--	199	174	--		185.9
Heptane	ND	37.2	--	ND	152	--		185.9
cis-1,3-Dichloropropene	ND	37.2	--	ND	169	--		185.9
4-Methyl-2-pentanone	ND	93.0	--	ND	381	--		185.9
trans-1,3-Dichloropropene	ND	37.2	--	ND	169	--		185.9
1,1,2-Trichloroethane	ND	37.2	--	ND	203	--		185.9
Toluene	ND	37.2	--	ND	140	--		185.9
2-Hexanone	ND	37.2	--	ND	152	--		185.9
Dibromochloromethane	ND	37.2	--	ND	317	--		185.9
1,2-Dibromoethane	ND	37.2	--	ND	286	--		185.9
Tetrachloroethene	75.1	37.2	--	509	252	--		185.9
Chlorobenzene	ND	37.2	--	ND	171	--		185.9
Ethylbenzene	ND	37.2	--	ND	162	--		185.9
p/m-Xylene	ND	74.4	--	ND	323	--		185.9
Bromoform	ND	37.2	--	ND	385	--		185.9
Styrene	ND	37.2	--	ND	158	--		185.9

Project Name: ***Lab Number:*** L1630676

Project Number: Not Specified ***Report Date:*** 10/05/16

SAMPLE RESULTS

Lab ID: L1630676-01 D Date Collected: 09/27/16 16:00
Client ID: RAW AIR Date Received: 09/28/16
Sample Location: 1801 FALMOUTH AVE NEW HYDE PAR 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								
1,1,2,2-Tetrachloroethane	ND	37.2	--	ND	255	--		185.9
o-Xylene	ND	37.2	--	ND	162	--		185.9
4-Ethyltoluene	ND	37.2	--	ND	183	--		185.9
1,3,5-Trimethylbenzene	ND	37.2	--	ND	183	--		185.9
1,2,4-Trimethylbenzene	ND	37.2	--	ND	183	--		185.9
Benzyl chloride	ND	37.2	--	ND	193	--		185.9
1,3-Dichlorobenzene	ND	37.2	--	ND	224	--		185.9
1,4-Dichlorobenzene	ND	37.2	--	ND	224	--		185.9
1,2-Dichlorobenzene	ND	37.2	--	ND	224	--		185.9
1,2,4-Trichlorobenzene	ND	37.2	--	ND	276	--		185.9
Hexachlorobutadiene	ND	37.2	--	ND	397	--		185.9

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: ***Lab Number:*** L1630676

Project Number: Not Specified ***Report Date:*** 10/05/16

SAMPLE RESULTS

Lab ID:	L1630676-01 D2	Date Collected:	09/27/16 16:00
Client ID:	RAW AIR	Date Received:	09/28/16
Sample Location:	1801 FALMOUTH AVE NEW HYDE PAR	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	48,TO-15		
Analytical Date:	10/05/16 07:26		
Analyst:	MB		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chloroethane	37900	112	--	100000	296	--		557.8

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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/04/16 14:56

Parameter	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: WG938699-4								
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: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/04/16 14:56

Parameter	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: WG938699-4								
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
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
1,1,1-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
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/04/16 14:56

Parameter	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: WG938699-4								
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/04/16 14:56

Parameter	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: WG938699-4								
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
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

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 10/04/16 14:56

Parameter	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: WG938699-4								
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					

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG938699-3								
Chlorodifluoromethane	108		-		70-130	-		
Propylene	124		-		70-130	-		
Propane	114		-		70-130	-		
Dichlorodifluoromethane	124		-		70-130	-		
Chloromethane	112		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	111		-		70-130	-		
Methanol	96		-		70-130	-		
Vinyl chloride	108		-		70-130	-		
1,3-Butadiene	113		-		70-130	-		
Butane	96		-		70-130	-		
Bromomethane	104		-		70-130	-		
Chloroethane	107		-		70-130	-		
Ethyl Alcohol	113		-		70-130	-		
Dichlorofluoromethane	101		-		70-130	-		
Vinyl bromide	102		-		70-130	-		
Acrolein	95		-		70-130	-		
Acetone	95		-		70-130	-		
Acetonitrile	101		-		70-130	-		
Trichlorofluoromethane	120		-		70-130	-		
iso-Propyl Alcohol	104		-		70-130	-		
Acrylonitrile	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG938699-3								
Pentane	100		-		70-130	-		
Ethyl ether	107		-		70-130	-		
1,1-Dichloroethene	113		-		70-130	-		
tert-Butyl Alcohol	100		-		70-130	-		
Methylene chloride	108		-		70-130	-		
3-Chloropropene	119		-		70-130	-		
Carbon disulfide	98		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		-		70-130	-		
trans-1,2-Dichloroethene	101		-		70-130	-		
1,1-Dichloroethane	110		-		70-130	-		
Methyl tert butyl ether	104		-		70-130	-		
Vinyl acetate	**132**	Q	-		70-130	-		
2-Butanone	112		-		70-130	-		
cis-1,2-Dichloroethene	119		-		70-130	-		
Ethyl Acetate	102		-		70-130	-		
Chloroform	113		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
2,2-Dichloropropane	98		-		70-130	-		
1,2-Dichloroethane	115		-		70-130	-		
n-Hexane	117		-		70-130	-		
Isopropyl Ether	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG938699-3								
Ethyl-Tert-Butyl-Ether	109		-		70-130	-		
1,1,1-Trichloroethane	127		-		70-130	-		
1,1-Dichloropropene	116		-		70-130	-		
Benzene	115		-		70-130	-		
Carbon tetrachloride	**134**	Q	-		70-130	-		
Cyclohexane	120		-		70-130	-		
Tertiary-Amyl Methyl Ether	107		-		70-130	-		
Dibromomethane	116		-		70-130	-		
1,2-Dichloropropane	118		-		70-130	-		
Bromodichloromethane	**131**	Q	-		70-130	-		
1,4-Dioxane	116		-		70-130	-		
Trichloroethene	114		-		70-130	-		
2,2,4-Trimethylpentane	117		-		70-130	-		
Methyl Methacrylate	107		-		70-130	-		
Heptane	124		-		70-130	-		
cis-1,3-Dichloropropene	125		-		70-130	-		
4-Methyl-2-pentanone	**132**	Q	-		70-130	-		
trans-1,3-Dichloropropene	111		-		70-130	-		
1,1,2-Trichloroethane	123		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG938699-3								
2-Hexanone	113		-		70-130	-		
Dibromochloromethane	106		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		
Butyl Acetate	87		-		70-130	-		
Octane	87		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		
1,1,1,2-Tetrachloroethane	97		-		70-130	-		
Chlorobenzene	100		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	102		-		70-130	-		
Bromoform	106		-		70-130	-		
Styrene	101		-		70-130	-		
1,1,2,2-Tetrachloroethane	107		-		70-130	-		
o-Xylene	104		-		70-130	-		
1,2,3-Trichloropropane	96		-		70-130	-		
Nonane (C9)	103		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	96		-		70-130	-		
o-Chlorotoluene	91		-		70-130	-		
n-Propylbenzene	93		-		70-130	-		
p-Chlorotoluene	97		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG938699-3								
4-Ethyltoluene	99		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
tert-Butylbenzene	95		-		70-130	-		
1,2,4-Trimethylbenzene	106		-		70-130	-		
Decane (C10)	97		-		70-130	-		
Benzyl chloride	109		-		70-130	-		
1,3-Dichlorobenzene	103		-		70-130	-		
1,4-Dichlorobenzene	104		-		70-130	-		
sec-Butylbenzene	96		-		70-130	-		
p-Isopropyltoluene	89		-		70-130	-		
1,2-Dichlorobenzene	107		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	112		-		70-130	-		
Undecane	107		-		70-130	-		
Dodecane (C12)	118		-		70-130	-		
1,2,4-Trichlorobenzene	116		-		70-130	-		
Naphthalene	106		-		70-130	-		
1,2,3-Trichlorobenzene	114		-		70-130	-		
Hexachlorobutadiene	116		-		70-130	-		

Project Name:

Lab Number: L1630676

Project Number:

Report Date: 10/05/16

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
L1630676-01	RAW AIR	767	6.0L Can	09/23/16	229229	L1626629-01	Pass	-29.4	-1.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/25/16 18:21
Analyst: MB

Date Collected: 08/24/16 16:00
Date Received: 08/25/16
Field Prep: Not Specified

	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
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
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
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
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
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Date Collected: 08/24/16 16:00
Date Received: 08/25/16
Field Prep: Not Specified

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

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

Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:

Date Collected: 08/24/16 16:00
Date Received: 08/25/16
Field Prep: Not Specified

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Date Collected: 08/24/16 16:00
Date Received: 08/25/16
Field Prep: Not Specified

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	87		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/25/16 18:21
Analyst: MB

Date Collected: 08/24/16 16:00
Date Received: 08/25/16
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: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Date Collected: 08/24/16 16:00
Date Received: 08/25/16
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
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1626629
Report Date: 10/05/16

Air Canister Certification Results

Lab ID: L1626629-01
Client ID: CAN 767 SHELF 42
Sample Location:
Date Collected: 08/24/16 16:00
Date Received: 08/25/16
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								
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: Not Specified
Project Number: Not Specified

Lab Number: L1630676
Report Date: 10/05/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1630676-01A	Canister - 6 Liter	N/A	N/A	N/A	Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	Not Specified	**Lab Number:**	L1630676
Project Number:	Not Specified	**Report Date:**	10/05/16

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

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.

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.

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

Report Format: Data Usability Report

Project Name:	Not Specified	**Lab Number:**	L1630676
Project Number:	Not Specified	**Report Date:**	10/05/16

Data Qualifiers

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: Not Specified
Project Number: Not Specified
Lab Number: L1630676
Report Date: 10/05/16

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, SM9222D-MF**.

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.

Serial_No:10051614:49

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 9/29/16

ALPHA Job #: L1630676

Client Information

Client: CA Rich Consultants, Inc
Address: 17 DuPont Street
Plainview NY 11803
Phone: 516-576-8844
Fax:
Email: JPrascia@Carichinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:
Project Location: 1801 Falmouth Avenue, New Hyde Park, NY
~~Project #~~:
Project Manager: Jessica Prascia
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 Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15		Sample Comments (i.e. PID)
30676-01	RAW Air	9/27/16	4:00	4:00	-30	-2	SV	JP	6L	767	1	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:
	9/28/16 1100	AAL	9-28-16 1100
Al Williams	9-28-16 2315	Al Williams	9-28-16 2315
	9-29-16 04:00		9/29/16 04:00

e-mail: JProscia@carichinc.com

September 7, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- During the week of August 15, 2016, the SVE systems horizontal and vertical piping was installed at the site. The SVE system (blower, moisture knockout, carbon) was also installed at the site. However, the SVE system could not be turned on as the electrician was waiting for the sub meter to be delivered.

The following will be performed this month:

- The SVE system's sub meter will be installed and the system will be turned on. Pending any trouble shooting, the CA RICH start-up test may also be performed this month.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

email list

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August 5, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Additional SVE system equipment was ordered.

The following will be performed this month:

- During the week of August 15th the SVE systems horizontal and vertical piping will be installed at the site. This was unable to be performed during the week of July 18th as previously discussed based on unanticipated complications with the onsite tenant.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

July 8, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – June 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On June 16, 2016, a site walk through was performed with CA RICH, the anticipated roofer, electrician, client, and other subcontractors in order to efficiently install the SVE system.

The following will be performed this month:

- The SVE system equipment will be ordered.
- During the week of July 18th the SVE systems horizontal and vertical piping will be installed at the site.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

June 7, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Estimates for the system installation were received and reviewed.

The following will be performed this month:

- During the week of June 13th CA RICH plans to have a walk through with the anticipated roofer, electrician, client, and other subcontractors in order to efficiently install the SVE system.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

May 4, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 7, 2016 the Final Construction Completion Report- Part A was approved by the NYSDEC.
- During the week of April 18, 2016, several site visits were performed with various contractors to obtain estimates for the system installation.

The following will be performed this month:

- Once all of the estimates are received CA RICH will begin to implement the system installation.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Manager

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

April 4, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – March 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On February 29, 2016 the Final Construction Completion Report- Part A was submitted.

The following will be performed this month:

- Once the Final Construction Completion Report- Part A is approved, CA RICH will begin to implement the system installation.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

March 10, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On February 29, 2016 the Final Construction Completion Report- Part A was submitted.

The following will be performed this month:

- Once the Final Construction Completion Report- Part A is approved, CA RICH will begin to implement the system installation.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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e-mail: JProscia@carichinc.com

February 10, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2016**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Submittal of the revised Construction Completion Report- Part A to the NYSDEC.
- After the NYSDEC reviewed the Construction Completion Report- Part A, additional comments were incorporated.

The following will be performed this month:

- Submittal of the Final Construction Completion Report- Part A to the NYSDEC.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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John Paul, Esq.	JPaul@bdlaw.com

e-mail: JProscia@carichinc.com

January 4, 2016

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – December 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The NYSDEC comments regarding the Construction Completion Report- Part A were reviewed and are being incorporated.

The following will be performed this month:

- Submittal of the revised Construction Completion Report- Part A to the NYSDEC.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

ca RICH Environmental Specialists

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December 7, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The NYSDEC comments regarding the Construction Completion Report- Part A were reviewed and are being incorporated.

The following will be performed this month:

- The NYSDEC comments regarding the Construction Completion Report- Part A are being incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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November 5, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 19, 2015, the NYSDEC completed their review, and sent the comments regarding the Construction Completion Report- Part A.

The following will be performed this month:

- The NYSDEC comments regarding the Construction Completion Report- Part A will be reviewed and incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Mark Sergott

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October 13, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – September 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The Construction Completion Report- Part A was submitted to the NYSDEC on September 1, 2015.

The following will be performed this month:

- Once the Construction Completion Report- Part A review from the NYSDEC is complete, the comments will be reviewed and incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
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September 1, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Interim Remedial Measures Report- Part A.

The following will be performed this month:

- The Interim Remedial Measures Report- Part A will be submitted on September 1, 2015.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
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John Paul, Esq.

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August 10, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The SVE pilot test results were provided to the Professional Engineer in order to propose engineering design plans and specifications for the construction of the soil vapor remediation system.

The following will be performed this month:

- The Interim Remedial Measures Report- Part A will be prepared and submitted in September.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

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July 2, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – June 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On June 1, 2015, the sub slab vents, soil vapor extraction wells, and an additional monitoring well were installed.
- On June 29, 2015, the pilot test was performed.

The following will be performed this month:

- The Interim Remedial Measures Report- Part A will be prepared and submitted in July/August.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
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Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

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June 3, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Interim Remedial Measures Report- Part A.

The following will be performed this month:

- Preparation of the Interim Remedial Measures Report- Part A.
- Installation of the sub slab vents, soil vapor extraction wells, and additional monitoring well has been scheduled for June 1, 2015

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

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May 12, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On April 8, 2015, trenching was performed in order to install the piping conduits for the proposed soil vapor extraction system.

The following will be performed this month:

- Preparation of the Interim Remedial Measures Report- Part A.
- Installation of the sub slab vents, soil vapor extraction wells, and additional monitoring well has been scheduled for June 1, 2015

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

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April 10, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – March 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Interim Remedial Measures Report- Part A.

The following will be performed this month:

- Trenching will be performed in order to install the piping conduits for the proposed soil vapor extraction system.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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March 10, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- IRM work plan field work activities began on February 20, 2015. This included the removal of the out-of-service cesspools, and the removal and disposal of the impacted soil and perched groundwater around & below these structures (see attached photos).

The following will be performed this month:

- Trenching will be performed in order to install the piping conduits for the proposed soil vapor extraction system.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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View of breaking up the asphalt.



View of guzzler and excavator removing material from pools.



View of guzzler removing material from the pool.



View of cleaned out pool.



View of guzzler unloading material from within the pool into a hazardous waste roll off.



View of pools.



Removal of the pool.



View of the excavation.



View of the excavation.



View of stockpiled contaminated soil from around the pools.



View of trucking out soil.



View of backfilling.

e-mail:eweinstock@carichinc.com

February 10, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2015**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Waste characterization soil samples were collected on January 28.

The following will be performed this month:

- IRM work plan field work activities will begin on February 20.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Eric Weinstock
Vice President

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Jessica Proscia

ca RICH Environmental Specialists

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January 7, 2015

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – December 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- NYSDEC final review of the Interim Remedial Measures Work Plan.

The following will be performed this month:

- Pending NYSDEC approval of the Interim Remedial Measures Work Plan, field activities may begin.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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December 15, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On November 3, 2014, NYSDEC sent a letter containing comments they have in regards to the Interim Remedial Measures Work Plan.
- On November 26, 2014 a revised Interim Remedial Measures Work Plan was resubmitted with the NYSDEC comments incorporated.

The following will be performed this month:

- NYSDEC final review of the Interim Remedial Measures Work Plan.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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November 10, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On October 7, 2014, revised Citizen Participation Plan was resubmitted with the NYSDEC comments incorporated.
- On October 20, 2014, a site walk-through was performed with the USEPA and their consultant HDR.

The following will be performed this month:

- A revised Interim Remedial Measures Work Plan will be resubmitted with the NYSDEC comments incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
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October 7, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – September 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On September 22, 2014, NYSDEC sent a letter containing comments they have in regards to the Citizen Participation Plan.
- On September 23, 2014, the Draft Interim Remedial Measures (IRM) Work Plan was submitted to the NYSDEC for review.

The following will be performed this month:

- A revised Citizen Participation Plan will be resubmitted with the NYSDEC comments incorporated.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
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September 8, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On August 12, 2014, the draft Citizen Participation Plan was submitted to the NYSDEC for review.
- On August 14, 2014, a letter was sent to the NYSDEC formally notifying the Department that a Remedial Investigation Work Plan will be prepared for the Property.

The following will be performed this month:

- Preparation of an Interim Remedial Measures (IRM) Work Plan.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
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Eric Weinstock

ca RICH Environmental Specialists

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August 12, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH resubmitted the Site Characterization Report with the NYSDEC's comments addressed.
- On July 30, 2014, CA RICH received a letter indicating that the Site Characterization Report is acceptable.

The following will be performed this month:

- Preparation of a Citizen Participation Plan.
- Preparation of an Interim Remedial Measures (IRM) Work Plan.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
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e-mail: jproscia@carichinc.com

July 15, 2014

brian.jankauskas@dec.ny.gov

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – June 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH began addressing the NYSDEC's comments to the Site Characterization Report.

The following will be performed this month:

- CA RICH will complete the NYSDEC's comments to the Site Characterization Report and resubmit to the NYSDEC by July 31, 2014.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

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June 9, 2014

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH received the NYSDEC's comments for the Site Characterization Report.
- CA RICH began addressing the NYSDEC's comments to the Site Characterization Report.

The following will be performed this month:

- CA RICH will complete the NYSDEC's comments to the Site Characterization Report and resubmit to the NYSDEC.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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May 9, 2014

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH awaited the completion of the NYSDEC review process for the Site Characterization Report.

The following will be performed this month:

- Once the NYSDEC review process for the Site Characterization Report is completed, CA RICH will address the comments.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

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April 10, 2014

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – March 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Submittal of the NYSDEC and NYSDOH approved Tenant Notification Letter.

The following will be performed this month:

- Once the NYSDEC review process for the Site Characterization Report is completed, CA RICH will address the comments.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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Laurence Gordon	fmrc@optonline.net
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March 13, 2014

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Submittal of the Site Characterization Report.
- Preparation of the Tenant Notification Letter.

The following will be performed this month:

- Submittal of the Tenant Notification Letter.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

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Eric Weinstock	EWeinstock@carichinc.com

e-mail: jproscia@carichinc.com

February 10, 2014

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2014**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Site Characterization Report.

The following will be performed this month:

- Submittal of the Site Characterization Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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January 9, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – December 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Site Characterization Report.

The following will be performed this month:

- Preparation of the Site Characterization Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
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Eric Weinstock

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December 9, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – November 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- Preparation of the Site Characterization Report.

The following will be performed this month:

- Preparation of the Site Characterization Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

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November 8, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – October 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- During the week of October 6, installation of 30, 55 and 85 foot groundwater borings as shown on the attached map (Figure 3) were performed. One of the 85 foot borings was placed on Falmouth Avenue. After numerous attempts to drill past the previously discussed unknown obstruction, the boring was unable to be converted to a shallow monitoring well.

- Tables and figures were prepared for all samples obtained during the site characterization investigation (attached).

The following will be performed this month:

- Preparation of the Site Characterization Report.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

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October 3, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – September 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On September 18th and 19th, 2013, we installed the interior soil borings and soil vapor samples. At the location of the former cesspools, 25 feet deep probes without soil samples were attempted west, north, and east of the cesspools to delineate the dimensions of a subsurface obstruction. Additionally, a data logger was placed in each well (with the exception of MW-4) to record the depth to groundwater over a two day period.

The following will be performed this month:

- During the week of October 6, installation of 30, 50 and 100 foot groundwater borings as shown on the attached map. One of the 100 foot borings will be placed on Falmouth Avenue. This boring will be converted to a shallow monitoring well.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

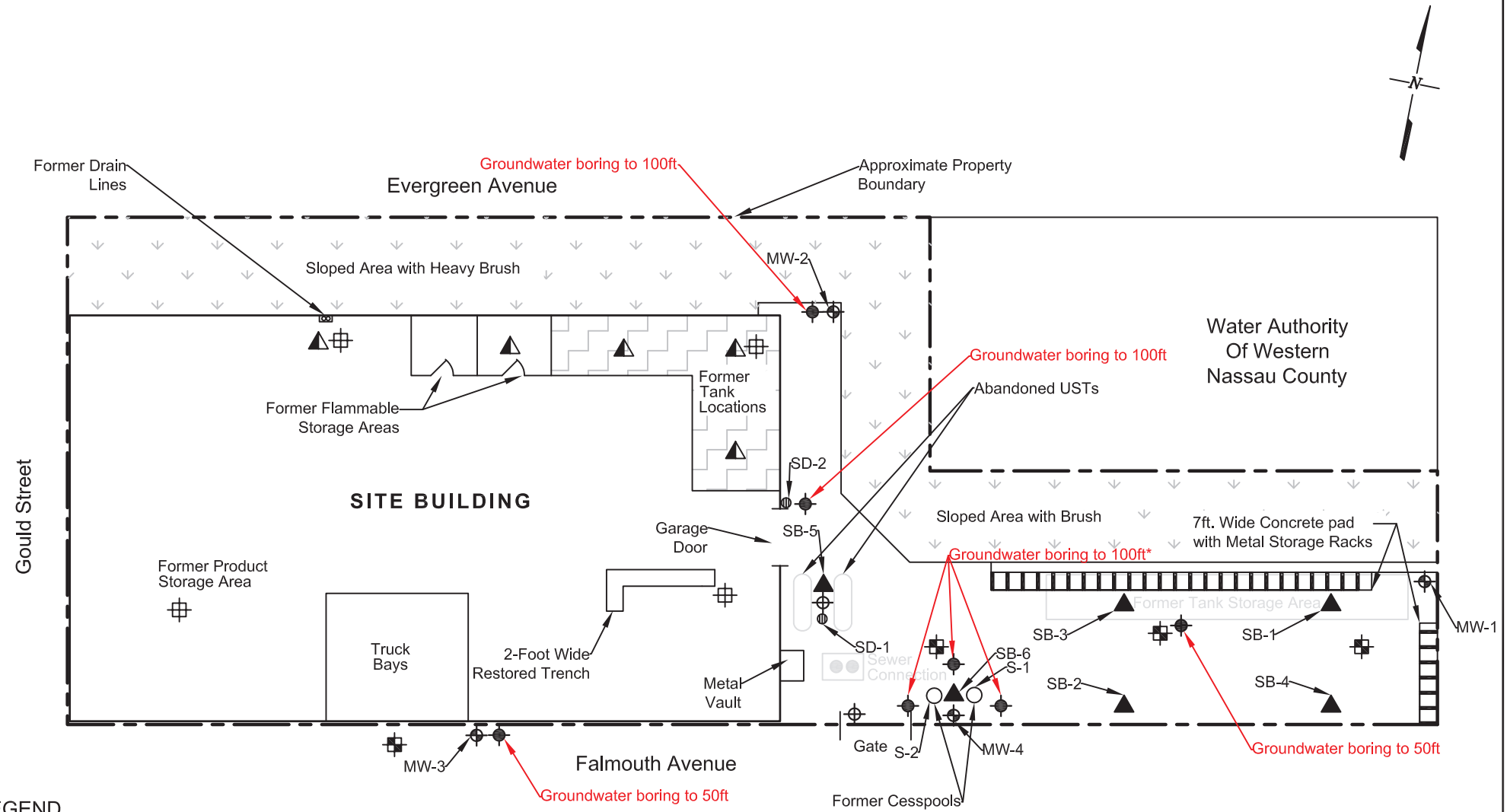
Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
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Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com



LEGEND

- Proposed Exterior 20' Soil Boring
- Proposed Interior Shallow Soil Boring
- Proposed 1" Sub-Slab Soil Vapor Sample
- Proposed 8' Soil Vapor Sample
- Former Cesspools
- Proposed Temporary 50' or 100' Groundwater Boring
- Proposed 30' Groundwater Monitoring Well
- Proposed Temporary 30' Groundwater Boring
- Storm Drain

0 20 40 60
Graphic Scale In Feet

*Due to numerous refusals of borings installed to the south of the former cesspools, groundwater borings will be attempted west, north and east of the cesspools. The first location to advance without refusal will be completed as a groundwater boring.

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Revised Sampling Location Map		DATE: 6/27/2013
		SCALE: As Shown
FIGURE: 1	Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2012-6		APPR. BY: E.A.W.

H:\Drawings\Seaboard Estates-Zoe Chemical\2012-6

e-mail: jproscia@carichinc.com

September 9, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – August 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On August 16, 2013, an additional liquid sample was obtained from the drums generated during the storm drain clean out for waste disposal purposes. The sample was analyzed for Primary Pollutant Metals and field tested for PH.

- On August 28, 2013, the Nassau County Department of Public Works approved the disposal of the wastewater from the storm drain cleanout into the County's sewer system.

The following will be performed this month:

- On September 18th and 19th, 2013, we will install the interior soil borings and soil vapor samples. At the location of the former cesspools, 25 feet deep probes without soil samples will be attempted west, north, and east of the cesspools to delineate the dimensions of a subsurface obstruction. (Numerous borings attempted south of the cesspools encountered refusal at 15 feet. Based on the existing laboratory data, we do not believe the obstruction causing refusal should be penetrated.) Additionally, a data logger will be placed in each well (with the exception of MW-4) to record the depth to groundwater over a two day period.

- During the week of October 7, installation of 50 and 100 foot groundwater borings as shown on the attached map. One of the 100 foot borings will be placed on Falmouth Avenue.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

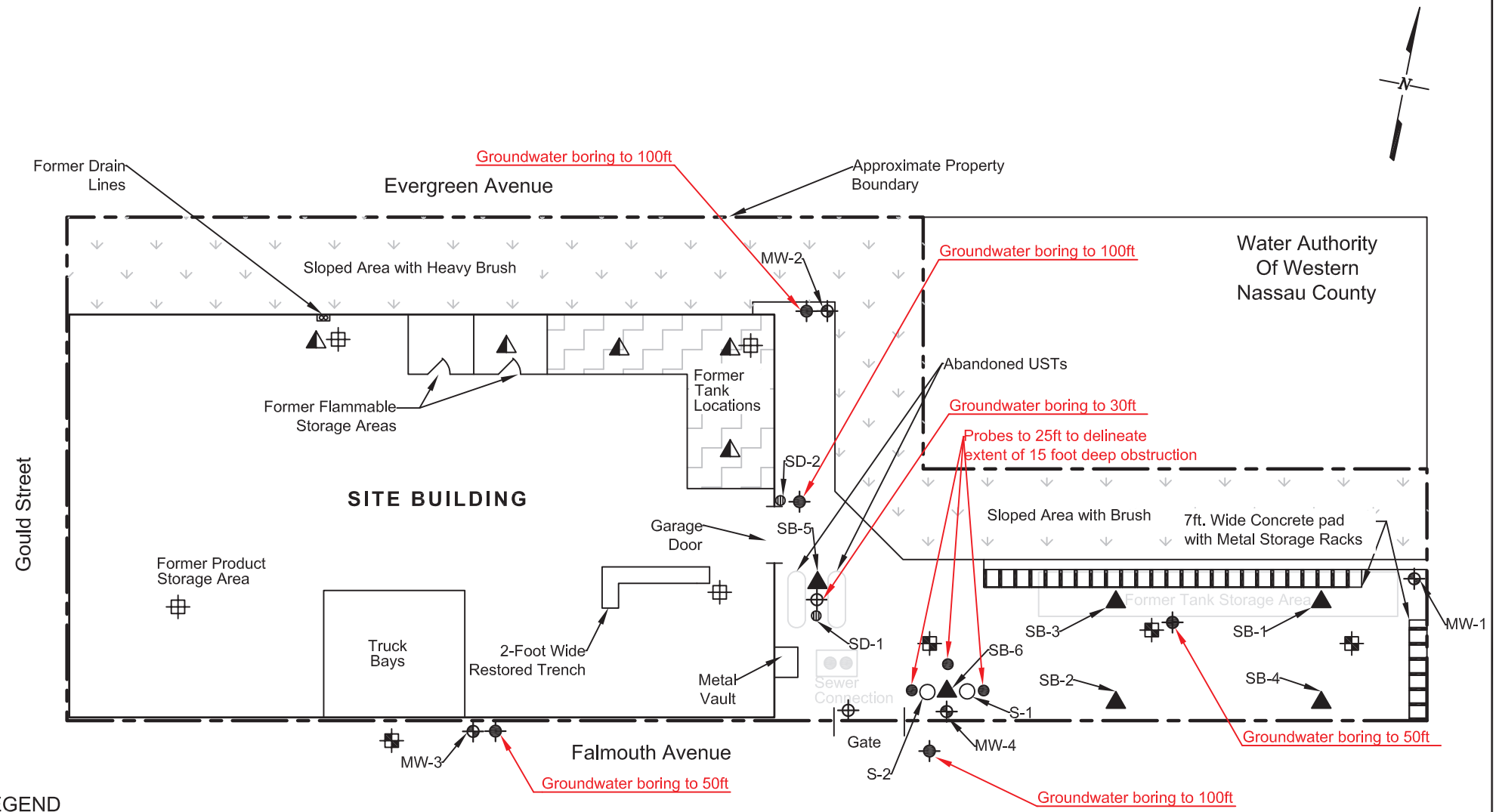
Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
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Eric Weinstock

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com



LEGEND

- Exterior 20' Soil Boring
- Proposed Interior Shallow Soil Boring
- Proposed 1" Sub-Slab Soil Vapor Sample
- Proposed 8' Soil Vapor Sample
- Former Cesspools
- Proposed Temporary 50' or 100' Groundwater Boring
- Proposed 30' Groundwater Monitoring Well
- Proposed Temporary 30' Groundwater Boring
- Storm Drain
- Probe Without Samples

0 20 40 60
Graphic Scale In Feet

*Due to numerous refusals of borings installed to the south of the former cesspools, groundwater borings will be attempted west, north and east of the cesspools. The first location to advance without refusal will be completed as a groundwater boring.

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Revised Sampling Location Map	DATE: 8/6/2013
	SCALE: As Shown
FIGURE: 1	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2012-6	APPR. BY: E.A.W.

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

H:\Drawings\Seaboard Estates-Zoe Chemical\2012-6

e-mail: jproscia@carichinc.com

August 5, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – July 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- On July 22, 2013, storm drains SD-1 and SD-2 were cleaned using a shop vacuum and shovels. The underground lines were jetted, and videoed. The fieldwork confirmed that SD-1 is connected to SD-2 and contain solid bottoms.

- On July 26, 2013, EPA RCRA ID number NYD 002 033 108 was assigned to the subject Property.

- On July 29, 2013, for waste disposal purposes, a liquid sample was obtained from the drums generated during the storm drain clean out. The sample was analyzed for VOCs.

The following will be performed this month:

- As previously discussed, no work is scheduled for the month of August.

- During the week of September 9, we will install the interior soil borings and soil vapor samples.

- During the week of October 7, installation of 50 and 100 foot groundwater borings as shown on the attached map. One of the 100 foot borings will be placed on Falmouth Avenue. At the location of the former cesspools, 25 feet deep probes without soil samples will be attempted west, north, and east of the cesspools to delineate the dimensions of a subsurface obstruction. (Numerous borings attempted south of the cesspools encountered refusal at 15 feet. Based on the existing laboratory data, we do not believe the obstruction causing refusal should be penetrated.)

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

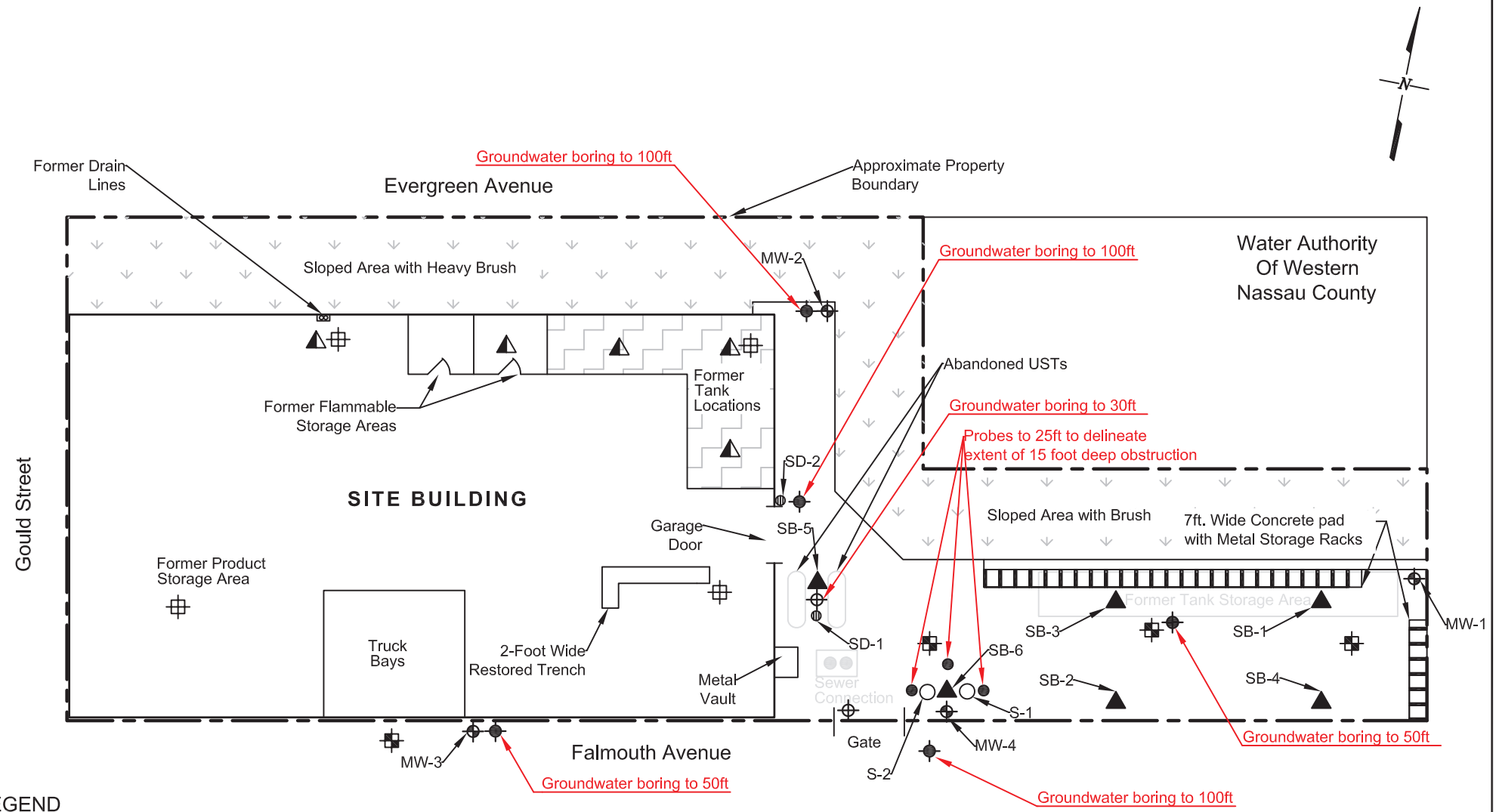
Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
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Eric Weinstock

ca RICH Environmental Specialists

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John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com



LEGEND

- Exterior 20' Soil Boring
- Proposed Interior Shallow Soil Boring
- Proposed 1" Sub-Slab Soil Vapor Sample
- Proposed 8' Soil Vapor Sample
- Former Cesspools
- Proposed Temporary 50' or 100' Groundwater Boring
- Proposed 30' Groundwater Monitoring Well
- Proposed Temporary 30' Groundwater Boring
- Storm Drain
- Probe Without Samples

0 20 40 60
Graphic Scale In Feet

*Due to numerous refusals of borings installed to the south of the former cesspools, groundwater borings will be attempted west, north and east of the cesspools. The first location to advance without refusal will be completed as a groundwater boring.

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Revised Sampling Location Map	DATE: 8/6/2013
	SCALE: As Shown
FIGURE: 1	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2012-6	APPR. BY: E.A.W.

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

H:\Drawings\Seaboard Estates-Zoe Chemical\2012-6

e-mail: jproscia@carichinc.com

July 8, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – June 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH provided the property owner with a proposal to clean out the two storm drains.
- Applied for an EPA ID number.
- Scheduled next phase of fieldwork (storm drain clean out).
- Developed drawing with locations for 50 and 100 foot groundwater borings (attached).

The following will be performed this month:

- During the week of July 22, we will clean out the two storm drains, jet, and video the underground lines
- During the week of September 9, we will install the interior soil borings and soil vapor samples.
- During the week of October 7, install 50 and 100 foot soil/groundwater borings. At the location of the former cesspools, borings will be attempted west, north, and east of the cesspools. (Numerous borings attempted south of the cesspools encountered refusal at 15 feet. Based on the existing laboratory data, we do not believe the obstruction causing refusal should be penetrated.) The first boring to advance without encountering refusal will be completed as a groundwater boring. Only one groundwater boring will be completed at this location.

  As an alternative, a deep (100 foot) groundwater boring will be installed in the street south of the former cesspools at location agreeable to the NYSDEC.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

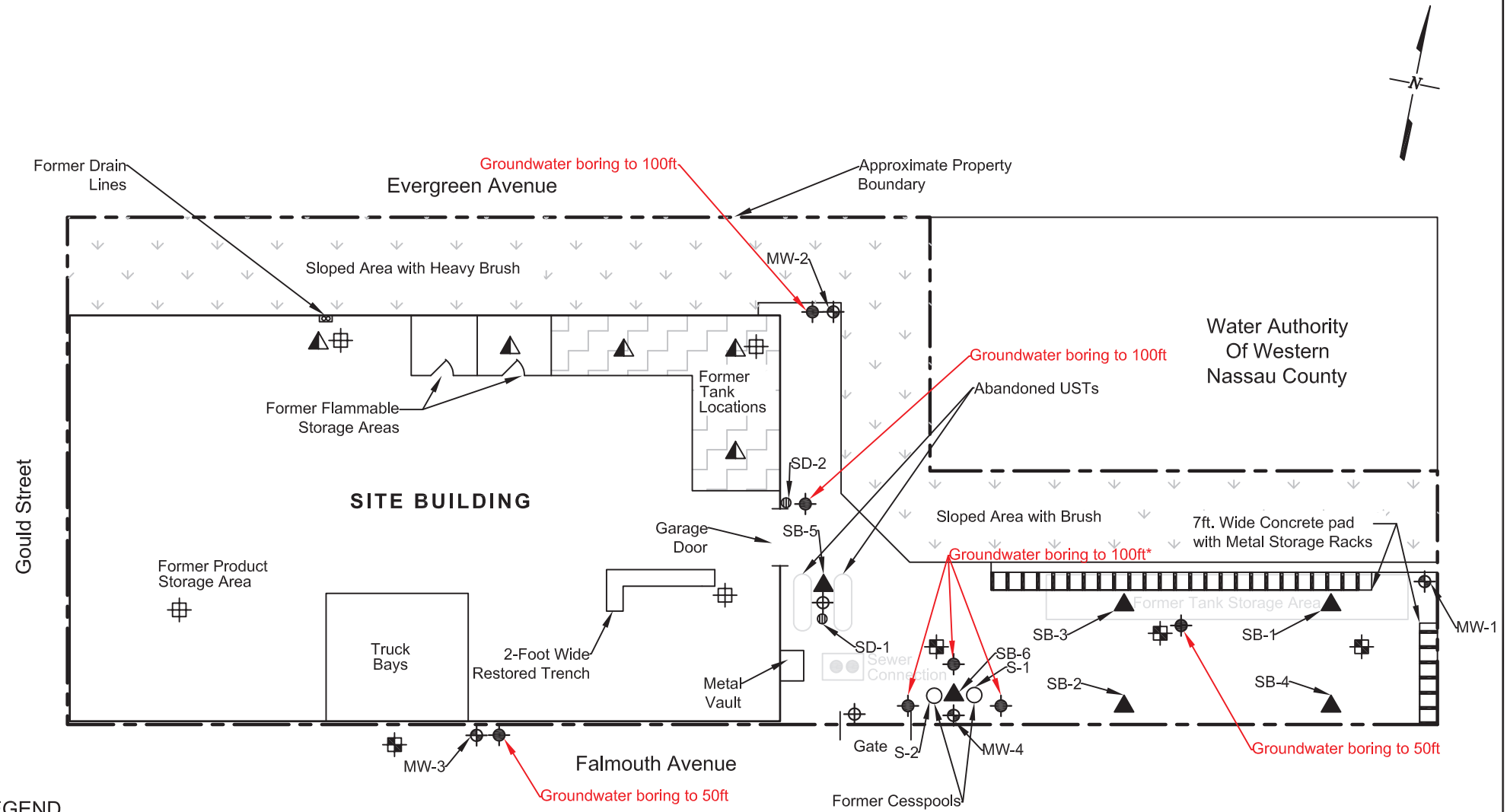
Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

email list

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Jacqueline E. Nealon	jen02@health.state.ny.us
Alali Tamuno, Esq.	amtamuno@gw.dec.state.ny.us
Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com



LEGEND

- Proposed Exterior 20' Soil Boring
- Proposed Interior Shallow Soil Boring
- Proposed 1" Sub-Slab Soil Vapor Sample
- Proposed 8' Soil Vapor Sample
- Former Cesspools
- Proposed Temporary 50' or 100' Groundwater Boring
- Proposed 30' Groundwater Monitoring Well
- Proposed Temporary 30' Groundwater Boring
- Storm Drain

0 20 40 60
Graphic Scale In Feet

*Due to numerous refusals of borings installed to the south of the former cesspools, groundwater borings will be attempted west, north and east of the cesspools. The first location to advance without refusal will be completed as a groundwater boring.

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Revised Sampling Location Map		DATE: 6/27/2013
		SCALE: As Shown
FIGURE: 1	Former Zoe Chemical Site 1801 Falmouth Avenue New Hyde Park, NY	DRAWN BY: J.T.C./T.R.B.
DRAWING NO: 2012-6		APPR. BY: E.A.W.

H:\Drawings\Seaboard Estates-Zoe Chemical\2012-6

e-mail: jproscia@carichinc.com

July 1, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas DRAFT

Re: **Monthly Progress Report – June 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH provided the Property owner with a proposal to clean out the two storm drains and former cesspools.
- Applied for an EPA ID number.
- Scheduled next phase of fieldwork (interior soil borings and soil vapor sampling).
- Developed drawing with locations for 50 and 100 foot groundwater borings (attached).

The following will be performed this month:

- Perform interior soil borings and soil vapor sampling.
- Apply for roll-off container street permit (see attached drawing).
- Schedule cleanout of storm drains and former cesspools.
- Schedule installation of 50 and 100 foot soil borings. At the location of the former cesspools, groundwater borings will be attempted west, north, and east of the cesspools. (Numerous borings attempted south of the cesspools encountered refusal at 15 feet). The first boring to advance without encountering refusal will be completed as a groundwater boring. Only one groundwater boring will be completed at this location.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

DRAFT

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

ca RICH Environmental Specialists

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Eric Weinstock	EWeinstock@carichinc.com

e-mail: jproscia@carichinc.com

June10, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – May 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The newly installed four monitoring wells were sampled on May 14, 2013 utilizing low-flow sampling technology.
- All elevations of the top of the well casings of the four monitoring wells were surveyed on May 14, 2013 by a NYS-Licensed Surveyor.
- On May 28, 2013, two 55-gallon drums containing drill cuttings were picked up and property disposed at the Republic Environmental Systems facility in Hatfield, Pennsylvania.

The following will be performed this month:

- The analytical results for the exterior 20 foot soil borings, storm drains, and septic samples will be tabulated and compared to NYSDEC Soil Cleanup Objectives.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Jacqueline E. Nealon
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

email list

ca RICH Environmental Specialists

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Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com

e-mail: jproscia@carichinc.com

May 6, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – April 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- A memo and figure detailing the results of the geophysical investigation was provided.
- The exterior 20 foot soil borings and storm drain samples were obtained during the week of April 22, 2013.
- Four monitoring wells were installed and developed during the week of April 22, 2013.
- The two suspect former cesspools identified during the geophysical investigation were uncovered and sampled during the week of April 22, 2013.

The following will be performed this month:

- The newly installed four monitoring wells will be sampled on May 14, 2013 utilizing low-flow sampling technology.
- All elevations of the top of the well casings of the four monitoring wells will be surveyed on May 14, 2013 by a NYS-Licensed Surveyor.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Krista Anders
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.
Eric Weinstock

email list

Brian Jankauskas	bfjankau@gw.dec.state.ny.us
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Alali Tamuno, Esq.	amtamuno@gw.dec.state.ny.us
Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com
Eric Weinstock	EWeinstock@carichinc.com

e-mail: jproscia@carichinc.com

April 9, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – March 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The geophysical Investigation was performed on March 29, 2013.

The following will be performed this month:

- A memo and figure detailing the results of the geophysical investigation will be provided.
- The exterior 20 foot soil borings, interior shallow borings, interior sub-slab soil vapor samples, exterior soil vapor samples, and storm drain samples will be obtained during the week of April 22, 2013.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Krista Anders
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

ca RICH Environmental Specialists

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Brian Jankauskas	bfjankau@gw.dec.state.ny.us
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Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

e-mail: jproscia@carichinc.com

March 7, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – February 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- The Site owner coordinated on-site access with the current tenant in order to perform the geophysical investigation.

The following will be performed this month:

- The geophysical investigation will be performed on March 29, 2013.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Krista Anders
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

email list

Brian Jankauskas	bfjankau@gw.dec.state.ny.us
Krista Anders	Kma06@health.state.ny.us
Alali Tamuno, Esq.	amtamuno@gw.dec.state.ny.us
Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com

e-mail: jproscia@carichinc.com

February 7, 2013

bfjankau@gw.dec.state.ny.us

NYSDEC
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Attention: Brian Jankauskas

Re: **Monthly Progress Report – January 2013**
Former Zoe Chemical Site
1801 Falmouth Avenue, New Hyde Park, NY
Agreement Index No.: W1-1165-12-06

Dear Mr. Jankauskas:

In accordance with the above-referenced Agreement, CA RICH is pleased to provide you with this Monthly Progress Report.

The following activities were performed this past month:

- CA RICH's Site Characterization Work Plan, dated January 2013 was approved by the NYSDEC in February 2013.
- An on-site kick-off meeting which included a walk-through of the Site with CA RICH, the geophysical subcontractor, the drilling subcontractor and Site owner (Laurence Gordon) was performed. Based on the walk-through, two of the proposed exterior 20 foot soil borings previously located in the former tank storage area will have to be moved approximately seven feet south due to the existing metal storage racks. An updated figure is provided.

The following will be performed this month:

- The Site owner will coordinate on-site access with the current tenant.
- The geophysical investigation will be performed.

If there are any questions regarding this letter, please do not hesitate to call our Office.

Sincerely,

CA RICH CONSULTANTS, INC.

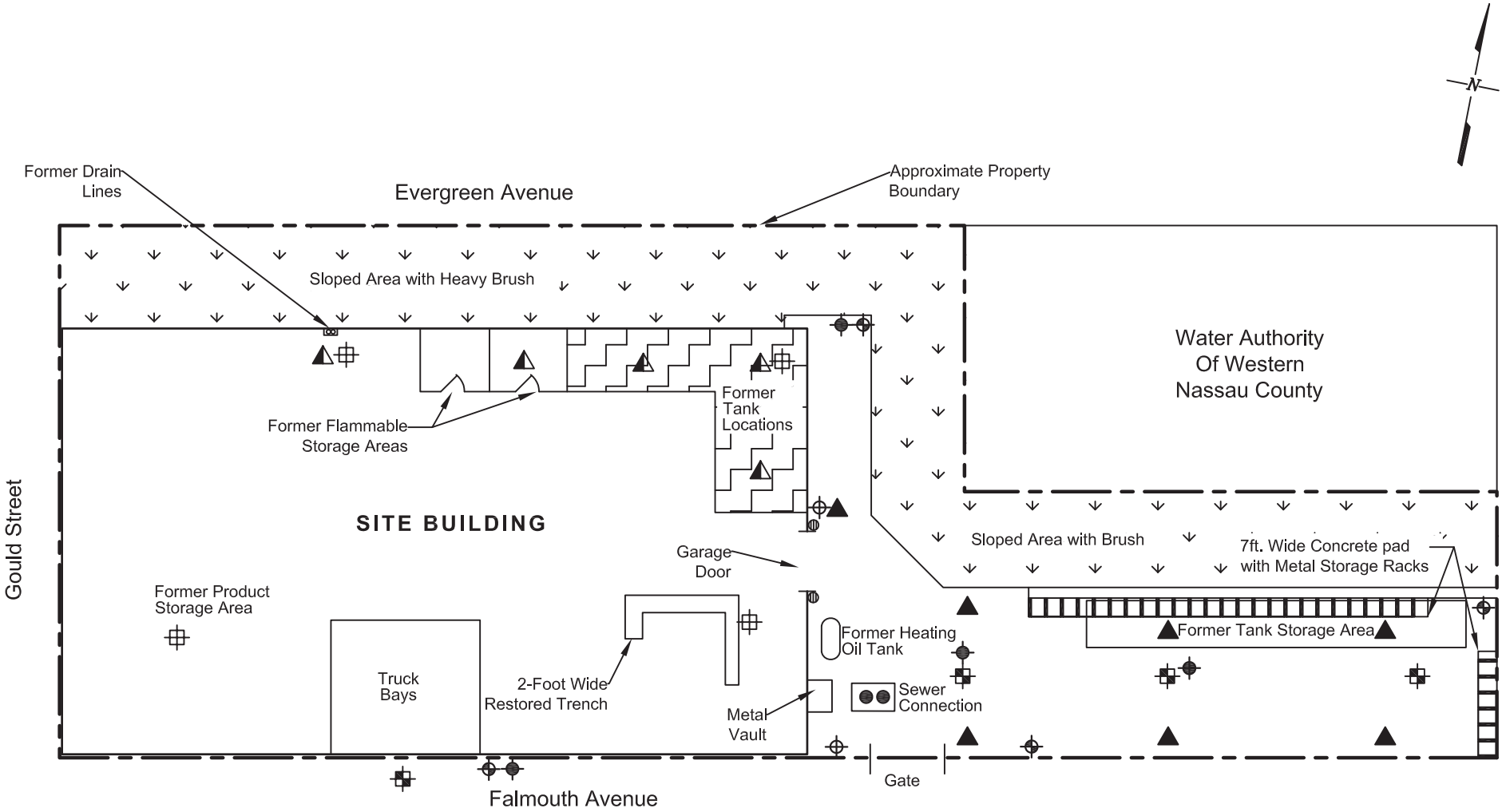
Jessica Proscia

Jessica Proscia
Project Environmental Scientist

cc: Krista Anders
Alali Tamuno, Esq.
Michael Murphy, Esq.
Laurence Gordon
John Paul, Esq.

email list

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Alali Tamuno, Esq.	amtamuno@gw.dec.state.ny.us
Michael Murphy, Esq.	MMurphy@bdlaw.com
Laurence Gordon	fmrc@optonline.net
John Paul, Esq.	JPaul@bdlaw.com



LEGEND

- Proposed Exterior 20' Soil Boring
- Proposed Interior Shallow Soil Boring
- Proposed 1" Sub-Slab Soil Vapor Sample
- Proposed 8' Soil Vapor Sample
- Proposed Temporary 100' Groundwater Boring
- Proposed 30' Groundwater Monitoring Well
- Proposed Temporary 30' Groundwater Boring
- Storm Drain

0 20 40 60
Graphic Scale In Feet

CA RICH CONSULTANTS, INC.
Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Proposed Sampling Location Map	DATE: 2/7/2013
	SCALE: As Shown
FIGURE: 4	DRAWN BY: J.T.C.
DRAWING NO: 2012-6	APPR. BY: E.A.W.

Former Zoe Chemical Site
1801 Falmouth Avenue
New Hyde Park, NY

H:\Drawings\Seaboard Estates-Zoe Chemical\2012-6

APPENDIX F

Photo Log



Waste characterization - eastern pool side.



Waste characterization - eastern pool top and side.



Waste characterization - western pool side.



Waste characterization - western pool top and side.



View of breaking up the asphalt.



View of guzzler and excavator removing material from cesspools.



View of guzzler removing material from the cesspool.



View of guzzler unloading material from within the cesspool into a hazardous waste roll off.



Interior view of cesspool.



View of cesspools.



View of cesspools.



View of cesspool.



Removal of the cesspool.



View of the excavation.



View of debris encountered within excavation.



View of debris encountered within excavation.



View of the excavation.



View of stockpiled contaminated soil from around the cesspools.



View of trucking out soil.



View of backfilling.



View of 2-inch pipe inside 4-inch pipe (casing).



View of completed exterior trenching.



View of exterior piping entering 23-inch manhole.



Backfilled trench for exterior piping.



Installation of exterior SVE well.



View of exterior SVE well.



View of exterior SVE well.



View of interior sub-slab vent (SVE-4).



View of interior sub-slab vent (SVE-5).



View of interior sub-slab vent (SVE-6).



View of blower attached to exterior SVE well (SVE-2) during pilot test.



Exterior SVE well capped for pilot test.



Existing groundwater monitoring well capped for pilot test.



Interior sub-slab vent capped for pilot test.



View of blower attached to interior sub-slab vent (SVE-5) during pilot test.



View of temporary differential point during the pilot test.



View of SSD-5 trenching.



View of completed SSD-4 trenching.



View of interior duct.



Interior view of SVE well inside 24-inch manhole.



View of interior ducts.



View of exterior risers.



View of system.



View of system.



View of exterior trenching.



View of exterior trenching.



View of exterior trenching.



View of completed exterior trenching.



View of roof riser.



View of pitch pocket for roof riser.



View of venting system layout on the roof.



View of roof riser.



View of venting system layout on the roof.



View of venting system layout on the roof.



View of venting system layout on the roof.

APPENDIX G

Waste Disposal Manifests

ENVIROSAFE SERVICES OF OHIO, INC.

CERTIFIED SCALE TICKET

LOAD NUMBER: A50319007

Carrier: HORWITH TRUCKS, INC.
Generator: FORMER ZOE CHEMICAL
Manifest Document Number: 014014248JJK
State Manifest Number:
Container:

MANIFEST DETAIL:

Page	Line	Quantity	Profile Number	DOT Description:
1	1	1	14263	NA3077, HAZARDOUS WASTE, SOLID, N.O.S. (1,1,1-TRICHLOROETHANE), 9, PGIII, RQ

Trailer#	Item#	Container Type	Manifest Volume/UM	Manifest Weight	Manifest Ton Weight
7	1	CM	13 CU YD		

ESOI SCALE INFORMATION:

Scale In - Date/Time: 3/19/15 09:17 am
Scale Out - Date/Time: 3/19/15 11:44 am

GROSS WEIGHT (LBS)	TARE WEIGHT (LBS)	NET WEIGHT (LBS)*	NET WEIGHT (TONS)*
52,480	41,180	**11,300**	**5.65**

*Total received weight for this document.

ACKNOWLEDGEMENTS:

DRIVER NAME: CONEY K

DRIVER SIGNATURE: _____

WEIGHER SIGNATURE: SCALEMASTER

SÓLUTION
CENTRE DE TRAITEMENT DE SOL

Centre de traitement de sol / Soil Treatment Facility
8365, Broadway Nord, Montréal (Québec) H1B 5X7

SOLUTION
SOIL TREATMENT FACILITY

P- 7274

N° d'autorisation / Authorization No.: M11206

Vente de sable / Sand purchase:

Plage de contamination / Contamination level:

Classe / Class

☐ *A* ☐ *B*

☐ *AB* ☐ *BC* ☒ *>C* ☒ *>RESC (>D)*

Autres / Other: _____

☐ *à caractériser / sampling on arrival (n° échantillon / sample ID):* _____

☐ *Autres / Other:* _____

Pesée / Weighing:

Transporteur / Carrier: FCL

Immatriculation / Truck ID: 816 AS218J

ID 8185218
GROSS 32870 kg
TD 8185218
GROSS 32870 kg

TARE 15630 kg
NET 17240 kg

_____
Signature du conducteur / Driver's signature

_____
Acceptation des sols / Soil acceptance

Remarques / Remarks: A ATS 10-12 252 DM 014 212 TJK

3621 886-2

Volume Report

Job No: M11806 1801 Falmouth Avenue, New Hyde Park, NY 11040

Disposal Facility: Montréal

From: 03/16/2015 **To:** 03/16/2015

Shipped Date	Received Date	Weight Ticket	US Manifest	Canada Manifest	Weight (MT)	Weight (Tons)	Trucking company
03/13/2015	03/16/2015	P-7274	014014213JJK	9621886-2	17.24	19.00	FCI transport
		Sub-Total for 03/16/2015:			**17.24**	**19.00**	
Total net weight for authorization (M11806):					**17.24**	**19.00**	

Executed on: **03/24/2015**

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SCALEHOUSE COPY

SITE CL Cell 22X 77564
WEIGHMASTER Bruce E.
Ticket 971867

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.

5081152327

LICENSE:
TYPE: Miscellaneous

DATE IN 2/23/15 10:46 am
DATE OUT 2/23/15 10:59 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 245
BILL OF LADING 02231

INVOICE

SCALE IN	GROSS WEIGHT	73,020	NET TONS	23.91	INBOUND
MANUAL OUT	TARE WEIGHT	25,200	NET WEIGHT	47,820	

VEHICLE DESC: SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.	DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY				
23.91	TN	SW-CONT SOIL NEW YORK				

DRIVER:

WEIGHMASTER

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

CUSTOMER COPY

SITE CL CELL 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 971870
DATE IN 2/23/15 10:51 am
DATE OUT 2/23/15 11:07 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 296
INVOICE
BILL OF LADING 02232

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

LICENSE:
TYPE: Miscellaneous

SCALE IN
MANUAL OUT
GROSS WEIGHT 72,900
TARE WEIGHT 26,500
NET TONS 23.20
NET WEIGHT 46,400
INBOUND
VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
23.20	TN	SW-CONT SOIL	NEW YORK				

3/31 DRIVER:

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No: 0223-2

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

as agent to generator

Printed/Typed Name: Jessica Pisa

Signature: as agent to generator

Date: Month 02 Day 23 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Herman

Signature:

Date: Month 2 Day 23 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

23.20

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 23 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 971885

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :
TYPE: Miscellaneous

DATE IN 2/23/15 11:19 am
DATE OUT 2/23/15 11:37 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 211
INVOICE
BILL OF LADING 02233

SCALE IN
MANUAL OUT
GROSS WEIGHT 72,420
TARE WEIGHT 25,500
NET TONS 23.46
NET WEIGHT 46,920
INBOUND
VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
23.46	TN	SW-CONT SOIL	NEW YORK				

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-3

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

CAS agent to generator

Printed/Typed Name: Jessica Prosan

Signature

Date: Month 2 Day 23 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Aaron Mickey

Signature

Date: Month 2 Day 23 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

23.46

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 23 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE:
TYPE: Miscellaneous

SITE CL **CELL** 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 971886
DATE IN 2/23/15 11:21 am **DATE OUT** 2/23/15 11:39 am
VEHICLE SPECIAL **CONTAINER**
REFERENCE 217 INVOICE
BILL OF LADING 02234

SCALE IN **GROSS WEIGHT** 73,480 **NET TONS** 23.99
MANUAL OUT **TARE WEIGHT** 25,500 **NET WEIGHT** 47,980 INBOUND
VEHICLE DESC SPECIAL WASTE **CONTAINER DESC**

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
23.99	TN	SW-CONT SOIL	NEW YORK				

3/31 **DRIVER:**

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-4

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit WL/Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

as agent for generator

Printed/Typed Name: Jessica Proscia

Signature

Date: Month 2 Day 23 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David Clapinson

Signature

Date: Month 2 Day 23 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
23-99

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 23 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 971887
DATE IN 2/23/15 11:19 am
DATE OUT 2/23/15 11:40 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 240
BILL OF LADING 02235

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE:
TYPE: Miscellaneous

INVOICE

SCALE IN GROSS WEIGHT 76,580 NET TONS 25.44
MANUAL OUT TARE WEIGHT 25,700 NET WEIGHT 50,880
VEHICLE DESC SPECIAL WASTE CONTAINER DESC

INBOUND

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
25.44	TN	SW-CONT SOIL	NEW YORK				

5/31 DRIVER:

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-5

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610)261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610)286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a)Waste Profile# 5081152327

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

as agent to generator

Printed/Typed Name: Jessica Proctor

Signature

Date: Month 2 Day 23 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MATT TRACH

Signature: Matt Trach

Date: Month 2 Day 22 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

25.44

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 23 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 60029
WEIGHMASTER Mike M.
Ticket 971940

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :
TYPE: Miscellaneous

DATE IN 2/23/15 3:33 pm
DATE OUT 2/23/15 3:45 pm
VEHICLE SPECIAL
CONTAINER
REFERENCE 294
INVOICE
BILL OF LADING 02236

SCALE IN	GROSS WEIGHT	68,740	NET TONS	22.01	
SCALE OUT	TARE WEIGHT	24,720	NET WEIGHT	44,020	INBOUND

VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
22.01	TN	SW-CONT SOIL	NEW YORK				

3/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N / A

Manifest Document No. 0223-b

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoo Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

as agent for Goodrich

Printed/Typed Name: Jessica Presti

Signature

Date: Month 2 Day 23 Year 15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Wandi Torres

Signature

Date: Month 2 Day 23 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

19. Discrepancy Indication Space
22 C1

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 23 Year 15

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22A 60029

WEIGHMASTER Mike M.

Ticket 972013

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :

TYPE : Miscellaneous

DATE IN 2/24/15 11:06 am

DATE OUT 2/24/15 11:17 am

VEHICLE SPECIAL

CONTAINER

REFERENCE 245

INVOICE

BILL OF LADING 02239

SCALE IN	GROSS WEIGHT	74,580	NET TONS	24.33	
SCALE OUT	TARE WEIGHT	25,920	NET WEIGHT	48,660	INBOUND

VEHICLE DESC SPECIAL WASTE

CONTAINER DESC

QTY.	UNIT.	DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY				
24.33	TN	SW-CONT SOIL NEW YORK				

3/31 **DRIVER :**

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-9

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: as agent to generator J Pfeffer | Signature | Date: Month 2 Day 24 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Kleese | Signature | Date: Month 2 Day 24 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
24.33

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name | Signature | Date: Month 2 Day 24 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 60029

WEIGHMASTER Mike M.

Ticket 972014

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :

TYPE : Miscellaneous

DATE IN 2/24/15 11:05 am

DATE OUT 2/24/15 11:18 am

VEHICLE SPECIAL

CONTAINER

REFERENCE 217

INVOICE

BILL OF LADING 02238

SCALE IN	GROSS WEIGHT	73,720	NET TONS	24.13	
SCALE OUT	TARE WEIGHT	25,460	NET WEIGHT	48,260	INBOUND

VEHICLE DESC SPECIAL WASTE

CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
24.13	TN	SW-CONT SOIL	NEW YORK				

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-8

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

as agent to generator

Printed/Typed Name: Jessica Fiascella

Signature

Date: Month 2 Day 24 Year 15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David Clapsaddle

Signature

Date: Month 2 Day 24 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 24 Year 15

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 60029
WEIGHMASTER Mike M.
Ticket 972015

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY
LICENSE :
TYPE: Miscellaneous

DATE IN 2/24/15 11:07 am
DATE OUT 2/24/15 11:19 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 282
INVOICE
BILL OF LADING 02237

SCALE IN	GROSS WEIGHT	74,360	NET TONS	24.85	
SCALE OUT	TARE WEIGHT	24,660	NET WEIGHT	49,700	INBOUND

VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.	DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY				
24.85	TN	SW-CONT SOIL NEW YORK				

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 0223-7

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040
4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: PAD146714878

A. State Transporter's ID

B. Transporter 1 Phone: (610)261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: PA0000015867

E. State Facility's ID

F. Facility's Phone: (610)286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a)Waste Profile# 5081152327

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.
as agent to generator

Printed/Typed Name: Jessica Proscia | Signature | Date: Month 9 Day 24 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Bill Vickery | Signature | Date: Month 2 Day 24 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
24.85

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Date: Month 2 Day 24 Year 15

NON-HAZARDOUS WASTE

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 77564

WEIGHMASTER IN - Bruce E. OUT - Mike M.

Ticket 972025

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE
5081152327

CUSTOMER COPY

LICENSE :

TYPE : Miscellaneous

DATE IN 2/24/15 11:18 am

DATE OUT 2/24/15 11:33 am

VEHICLE SPECIAL

CONTAINER

REFERENCE 294

INVOICE

BILL OF LADING 022310

SCALE IN	**GROSS WEIGHT**	75,880	**NET TONS**	25.61	
SCALE OUT	**TARE WEIGHT**	24,660	**NET WEIGHT**	51,220	INBOUND

VEHICLE DESC SPECIAL WASTE

CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
25.61	TN	SW-CONT SOIL	NEW YORK				

3/31 **DRIVER :**

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 0223-10

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: PAD146714878

A. State Transporter's ID

B. Transporter 1 Phone: (610)261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: PA0000015867

E. State Facility's ID

F. Facility's Phone: (610)286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a)Waste Profile# 5081152327

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Jessica Pra. as a gent to generator

Signature

Date: Month 2 Day 24 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dandi TORRES

Signature

Date: Month 2 Day 24 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
25.61

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 24 Year 15

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 972161

CUSTOMER COPY

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

LICENSE:
TYPE: Miscellaneous

DATE IN 2/25/15 10:49 am
DATE OUT 2/25/15 11:02 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 245
INVOICE
BILL OF LADING 58621

SCALE IN GROSS WEIGHT 73,480 NET TONS 23.82
SCALE OUT TARE WEIGHT 25,840 NET WEIGHT 47,640
INBOUND
CONTAINER DESC
VEHICLE DESC SPECIAL WASTE

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
23.82	TN	SW-CONT SOIL	NEW YORK	$			

3/31 DRIVER:

WEIGHMASTER

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
N/A	58621	

GENERATOR

3. Generator's Name and Mailing Address: Former Zoechemical
1801 Falmouth Av New Hyde Park NY

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
Horwith Trucking Inc	P.A.D.1.4.6.7.1.4.8.7.8.	610-261-2200
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Conestoga Landfill 420 Quarry Rd Morgantown PA 19543		610-286-6844

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Soil with Contained in determination Non-DOT Regulated Material	1	NT	EST 22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900
Waste Profile # 508115232?

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Charles Seickel As Agent For	Charles Seickel As Agent For	2	25	15

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kevin Kresge		2	25	15

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
23.82

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
		2	26	15

TRANSPORTER #1

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 77564
WEIGHMASTER IN - Bruce E. OUT - Mike M.
Ticket 972162

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :
TYPE : Miscellaneous

DATE IN 2/25/15 10:49 am
DATE OUT 2/25/15 11:03 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 296
INVOICE
BILL OF LADING 58622

SCALE IN	GROSS WEIGHT	74,680	NET TONS	24.19	
SCALE OUT	TARE WEIGHT	26,300	NET WEIGHT	48,380	INBOUND

VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
24.19	TN	SW-CONT SOIL	NEW YORK	$			

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
. . . . .	58622	

GENERATOR

3. Generator's Name and Mailing Address
Former Zoecheringel 1801 Falmouth Rd
New Hyde Park NY.

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
Horwith Trucking Inc	P.A.N.1.4.6.7.1.4.8.7.8.	610-261-2200

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Conestoga Landfill 420 Quarry Rd Morgantown PA 19543	. . . . .	610-286-6644

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Soil with Contained in Determination Non-DOT Regulated Material	1	DT	Est. 22.	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
Waste Profile # 508115 2327	

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Charles Seichi As Agent For	Charles Seichi As Agent For	2	25	15

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jeff Herrman	Jeff Herrman	2	25	15

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

FACILITY

19. Discrepancy Indication Space
24.19

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		2	27	15

TRANSPORTER #1

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 60029
WEIGHMASTER Mike M.
Ticket 972315
DATE IN 2/26/15 11:05 am
DATE OUT 2/26/15 11:20 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 245
INVOICE
BILL OF LADING 022314

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :
TYPE : Miscellaneous

SCALE IN	GROSS WEIGHT	57,760	NET TONS	15.92	
SCALE OUT	TARE WEIGHT	25,920	NET WEIGHT	31,840	INBOUND

VEHICLE DESC SPECIAL WASTE
CONTAINER DESC

QTY.	UNIT.		DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY					
15.92	TN	SW-CONT SOIL	NEW YORK				

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-14

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610)261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610)286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a)Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Jason Cooper as Agent for Con

Signature: Jason Cooper

Date: Month 02 Day 26 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Kresso

Signature:

Date: Month 2 Day 26 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space: 15.92

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 26 Year 15

CONESTOGA LF
420 QUARRY ROAD
Morgantown, PA 19543 610-286-6844

SITE CL CELL 22X 60029
WEIGHMASTER Mike M.
Ticket 972316

CUSTOMER
042399
INNOVATIVE RECYCLING TECHNOLOGIES, INC.
690 N. QUEENS AVE.
5081152327

CUSTOMER COPY

LICENSE :
TYPE : Miscellaneous

DATE IN 2/26/15 11:06 am
DATE OUT 2/26/15 11:21 am
VEHICLE SPECIAL
CONTAINER
REFERENCE 282
INVOICE
BILL OF LADING 022311

SCALE IN GROSS WEIGHT 67,840 NET TONS 21.66
SCALE OUT TARE WEIGHT 24,520 NET WEIGHT 43,320
VEHICLE DESC SPECIAL WASTE
CONTAINER DESC
INBOUND

QTY.	UNIT.	DESCRIPTION	RATE.	EXTENSION.	TAX.	TOTAL
0.00	YD	TRACKING QTY				
21.66	TN	SW-CONT SOIL				
		NEW YORK				

5/31 DRIVER :

WEIGHMASTER

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N / A

Manifest Document No.: 0223-11

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Zoe Chemical
1801 Falmouth Avenue
New Hyde Park, NY 11040

4. Generator's Phone (516) 576-8844

5. Transporter 1 Company Name: Horwith Trucks, Inc.

6. US EPA ID Number: P A D 1 4 6 7 1 4 8 7 8

A. State Transporter's ID

B. Transporter 1 Phone: (610) 261-2200

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Conestoga Landfill
420 Quarry Road
Morgantown, PA 19543

10. US EPA ID Number: P A 0 0 0 0 0 1 5 8 6 7

E. State Facility's ID

F. Facility's Phone: (610) 286-6844

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous Soil with contained in determination Non-DOT Regulated Material	01	DT	EST. 22	T
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a) Waste Profile# 5081152327

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name: Jason T. Cooper as Agent

Signature:

Date: Month 2 Day 28 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials for ya

Printed/Typed Name: Bill Vickery

Signature:

Date: Month 2 Day 28 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
21.66

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month 2 Day 26 Year 15

NON-HAZARDOUS WASTE

F-14 © 2002 LABELMASTER ® (800) 621-5808

APPENDIX H

DUSR

L.A.B. Validation Corp, 14 West Point Drive, East Northport, NY 11731

DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY

ORGANIC AND INORGANIC ANALYSES

TARGET COMPOUND LIST (TCL) VOLATILES BY GC/MS
TARGET COMPOUND LIST (TCL) PESTICIDES BY GC
AND CADMIUM, COPPER AND MERCURY METALS BY ICP/CV

For Soil Samples Collected
February 21, 2015 and February 22, 2015
From 1801 Falmouth Avenue, New Hyde Park, NY
Collected by CA Rich Consultants, Inc.
Former Zoe Chemical

SAMPLE DELIVERY GROUP NUMBER:
L1503327
BY ALPHA ANALYTICAL - (ELAP #11148)

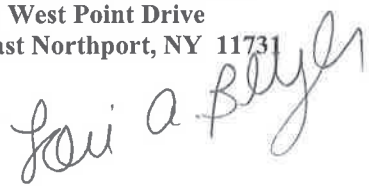
SUBMITTED TO:

Ms. Jessica Proscia
CA Rich Consultants, Inc.
17 Dupont Street
Plainview, NY 11803

April 03, 2015

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



(516) 523-7891; email LABValidation@aol.com

1801 Falmouth Avenue, New Hyde Park, NY – Soil Samples; February 2015 Sampling Event; Data Usability Summary Report (Data Validation): TCL Volatiles, TCL Pesticides, Cadmium, Copper and Mercury.

Table of Contents:

Introduction
Data Qualifier Definitions
Sample Receipt

1.0 Target Compound List (TCL) Volatile Organics by GC/MS SW846 Method 8260C
- 1.1 Holding Time
- 1.2 System Monitoring Compound (Surrogate) Recovery
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample/Blank Spikes
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check (Tuning)
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Field Duplicates
- 1.10 Target Compound List Identification
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

2.0 Target Compounds List (TCL) Pesticides by GC Method 8081B
- 2.1 Holding Time
- 2.2 Surrogate Recovery
- 2.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 2.4 Laboratory Control Samples
- 2.5 Blanks
- 2.6 Calibration Verification
- 2.7 Field Duplicates
- 2.8 Target Compound Identification
- 2.9 Compound Quantification and Reported Detection Limits
- 2.10 Overall Assessment of Data

3.0 Metals by ICP/Cold Vapor SW846 Methods 6010C/7471B
- 3.1 Holding Times
- 3.2 Calibration (Initial and Continuing Calibration Verifications)
- 3.3 Blanks
- 3.4 Spiked Sample Recovery
- 3.5 Laboratory/Field Duplicates
- 3.6 Laboratory Control Sample
- 3.7 Interference Check Sample
- 3.8 ICP Serial Dilution
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- 3.10 Overall Assessment of Data

APPENDICES:

A. Data Summary Form Is with Qualifications
B. Chain of Custody Documents
C. Case Narratives

Introduction:
A validation was performed on soil samples and the associated quality control samples for organic analysis for samples collected under chain of custody documentation by CA Rich Consultants, Inc. and submitted to Alpha Analytical for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. The soil samples were collected on February 21, 2015 and February 22, 2015. The samples were analyzed by Alpha Analytical, utilizing SW846 Method 8260C, 8081B, 6010C and 7471B and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of the Target Compound/Analyte List for Volatile Organics, Target Compound/Analyte List for Pesticides in addition to Cadmium, Copper and Mercury.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review and EPA Region II SOP HW-24 Revision 4 for 8260C, EPA Region 2 SOPs for 8081B (SOP HW36 – Rev. 4) and 6010C/7471B (SOPs HW-2A, HW-2c – Rev 15) and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

This data validation report pertains to the following samples:

Sample Identification	Laboratory Identification	Sample Matrix	Date Collected	Date Received
EP-1 (SOUTHWEST)	L1503327-01	Soil	02/21/15	02/23/15
EP-2 (WEST)	L1503327-02	Soil	02/21/15	02/23/15
EP-3 (NORTHWEST)	L1503327-03	Soil	02/21/15	02/23/15
EP-4 (BOTTOM WEST)	L1503327-04	Soil	02/21/15	02/23/15
EP-5 (EAST)	L1503327-05	Soil	02/22/15	02/23/15
EP-6 (NORTHEAST)	L1503327-06	Soil	02/22/15	02/23/15
EP-7 (SOUTHEAST)	L1503327-07	Soil	02/22/15	02/23/15
EP-8 (BOTTOM EAST) plus MS/MSD	L1503327-08	Soil	02/22/15	02/23/15
EP-X [(Field Duplicate of EP-4 (BOTTOM WEST)]	L1503327-09	Soil	02/21/15	02/23/15
TRIP BLANK	L1503327-10	Aqueous	02/21/15	02/23/15
FIELD BLANK	L1503327-11	Aqueous	02/22/15	02/23/15

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

J+ - The result is an estimated quantity, but the result may be biased high.

J- - The result is an estimated quantity, but the result may be biased low.

D - Analyte concentration is from diluted analysis.

Sample Receipt:
The Chain of Custody document indicates that the samples were received at Alpha Analytical Laboratories via courier upon completion of the sampling event. Sample login notes were generated. The cooler temperature for all samples were recorded upon receipt at Alpha Analytical Laboratories and determined to be acceptable (<6.0 degrees C). The actual temperature is recorded on the sample receipt checklist provided in Appendix B of this report (3.5 degrees C).

No problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary Form Is included in Appendix A includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form Is summarize the detailed narrative section of the report.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Target Analyte List (TCL) Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects in the Field and Trip Blanks for Bromomethane, Chloroethane, Acetone, 2-Butanone, 1,4-Dioxane and 4-Methyl-2-Pentanone and non-detects in all soil samples for Acetone, Acrylonitrile, 2-Butanone, 1,4-Dioxane and 4-Methyl-2-Pentanone due to low response factor as noted within the following as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "UJ", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were prepared and performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD was conducted on EP-8 (Bottom East) for this SDG.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Aqueous LCS/LCS Duplicate resulted in acceptable recovery values with the exception of Acetone (56%/40%). Additionally, RPD values fell outside acceptance limits for Acrylonitrile (23%), Acetone (33%), 2-Butanone (23%), 4-Methyl-2-Pentanone (21%). RPD limit is 20%. Based on professional judgment, no qualifications were applied based on RPD outliers. Acetone concentrations; non-detects in Trip Blank and Field Blank must be considered estimated, "UJ."

Soil LCS/LCS Duplicate analysis resulted in acceptable recovery values for all reported compounds.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>/= CRQL* and ,2x the CRQL**	No qualification required
	>CRQL*	</= CRQL*	Report CRQL value with a U
		>/=CRQL* and </= blank concentration	Report blank value for sample concentration with a U
		>/= CRQL* and > blank concentration	No qualification required
	=CRQL*	</= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
	Gross Contamination**	Detects	Report blank value for sample concentration with a U

*2x the CRQL for methylene chloride, 2-butanone and acetone.
**4x the CRQL for methylene chloride, 2-butanone, and acetone
***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.
Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

No target analytes were detected in the aqueous method blank associated with sample analysis. Low level m,p-Xylene (0.66 ug/kg) was detected in the low level soil blank. Sample concentrations were determined to be greater than the blank level and therefore no qualifications were applied based on this low level contaminant.

Matrix specific method blank for high level analysis (methanol) was not conducted as required. Data could not be evaluated based on any potential methanol contamination.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

C) **Trip Blank Contamination:**

Target analytes were not detected in the Trip Blank.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verification met acceptance criteria.

A) Response Factor GC/MS:
The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone and 2-Butanone.

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes with the following exceptions:

ICAL 1/29/15 – Aqueous samples – Field and Trip Blank. Bromomethane, chloroethane, Acetone, 2-Butanone, 1,4-Dioxane and 4-Methyl-2-Pentanone non-detects have been rejected, "R" due to low response factors.

ICAL 2/16/15 – All soil samples. Acetone, Acrylonitrile, 2-Butanone, 1,4-Dioxane and 4-Methyl-2-Pentanone non-detects have been rejected, "R" due to low response factors. Detected concentrations must be considered estimated, biased high, "J+" for Acetone and 2-Butanone.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <20% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >20% and eliminating either the high or the

low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Closing CCV must meet 30% criteria.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds with the following exceptions:

CCAL 2/24/15 – Field blank and Trip Blank; Dichlorodifluoromethane (43%), Chloromethane (24%), Vinyl Chloride (24%), Trichlorofluoromethane (27%), 1,1-Dichloroethene (26%), Carbon Disulfide (28%), Acetone (43%), trans-1,2-Dichloroethene (21%), 1,4-Dioxane (25%). In cases where analytes were previously rejected due to low response factor, non-detects have been qualified, "UJ."

CCAL 2/25/15 – Soil Samples; Trichlorofluoromethane (22%). "UJ" non-detects in all soil samples.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Fluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally for soil samples an acceptable RPD is 50%.

Field duplicate analysis (EP-X) was submitted on EP-4 (Bottom West). Poor reproducibility was observed since analyses were conducted at differing dilutions. Both samples were analyzed at high level. The duplicate was analyzed at an additional 1:50 dilution and therefore analytes detected in EP-4 were lost in extract dilution of the field duplicate. It is recommended that the results for EP-4 be utilized for decision making purposes.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Samples EP-1 (Southwest) and EP-2 (West) were analyzed via low level techniques with a 5 gram sample weight. The remaining samples were reported as low level analysis on the Form I's, however, after confirmation and verification with the laboratory, the actual analysis was conducted at high level with a methanol extraction. Manual edits were made to the Form I's during the review process to indicate the correct level of analysis. Verification of final quantitated values are correct as reported.

Based on dilutions that were conducted there is potential that some lower level hits were lost in extract dilution.

Detected concentrations for EP-1 (Southwest) and EP-2 (West) have been qualified, "J-" potentially biased low since samples were not field preserved via Method 5035A.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed. Raw data was reviewed and confirmed that no carryover exists for any analysis conducted with this data set.

The laboratory did not analyzed separate QC for high level analysis. Samples were analyzed following low soil analysis. No qualifications were applied based on this deviation.

2.0 Target Analyte Pesticides by GC SW846 Method 8081B

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Pesticide results are considered to be valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times required for data validation (14 days for soil) and seven (7) days for aqueous matrices for extraction. All extracts were analyzed within forty (40) days in accordance with the analytical method requirements.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Acceptable surrogate recovery values were observed for all analyses with exceptions noted below:

EP-5 (East) – low DBC recovery on secondary column (27%) due to interference. No qualifications to the data were applied.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data. MS/MSD analysis was required on EP-8, however, analysis was not conducted by the laboratory as noted in the narrative discussion of the lab report.

2.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch for Pesticides. Recovery values were acceptable and no qualifications were applied.

2.5 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but </=1x blank value	Sample Conc. Is <CRQL and </=1x blank value	Sample Conc. is >CRQL and >1x blank value

Extraction and Instrument blanks were performed at the appropriate frequency.
Below is a summary of blank contamination:

A) **Method Blank Contamination:**
No target analytes were detected in the associated method blanks and no data validation qualifiers were required based upon method blank data.

B) **Field Blank Contamination:**

Target analytes were not detected in the Field Blank.

2.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide standards. Acceptable DDT and Endrin breakdown percent difference (<20%) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

%RSD </= 20% for single component compounds except alpha-BHC and delta-BHC
%RSD </=30% for Toxaphene peaks
%RSD </= 30% for surrogates (TCMX and DCB)

Continuing calibration verifications:
For Pesticide analysis acceptable percent difference for any pesticide is 20%.

2.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50%.

Field Duplicate analysis was collected on EP-4 (Bottom). Sample chromatograms demonstrate complicated sample matrix. Aldrin was detected at 47 ppb in EP-4, however, the field duplicate concentration was determined to be 264 ppb. Results in the parent sample have been qualified estimated, potentially biased low, "J-"

Analyte concentrations that were reported by the laboratory with the "E" qualifier have been rejected, "R" to assist the end user to utilize the diluted value which has been qualified "D" as required by NYSDEC.

2.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards. Quantitation was performed via the internal standard method.

Positive Pesticide sample results are compared and where %Difference >25% when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

%Difference	Qualifier
0-25%	None
26-70%	"J"
71-100%	"JN"
101-200% (no interference)	"R"
101-200% (interference detected)*	"JN"
>50% (Pesticide value is <CRQL)**	"U"
>201%	"R"

***When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, "JN"**
**** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify "U", undetected.**

Acceptable % difference was observed for reported analytes with the following exceptions:

EP-2 (West) – 4,4'-DDT (35.2%) – "J" detected concentration

EP-4 (Bottom West) – trans Chlordane – 155%. Value not reported from this column. No qualifications required. "E" value of 1760 ppb was rejected, "R" and the value of 304 ppb must be utilized.

EP-5 (East) – Dieldrin must be considered estimated, "J"

EP-6 (Northeast) – cis-Chlordane and trans-Chlordane must be considered estimated, "J"

2.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required. Soil results were reported on a dry weight basis as required.

Samples were initially analyzed undiluted. Reanalysis at 1:10 dilution was required for many samples as indicated on the Form I's.

Several sample chromatograms document complicated sample matrices.

2.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

Soil samples were concentrated to 10ml as required for Pesticides and were extracted via SW846 Method 3546 (Microwave extraction). Laboratory reporting levels reflect the appropriate extraction concentration volume.

3.0 Metals by ICP/Cold Vapor SW846 Methods 6010C/7471B

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The ICP and CV results are considered to be valid and usable with the appropriate qualifiers as notated in the following text:

3.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were digested and analyzed for Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

3.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP and Mercury (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

3.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL.

No qualifications to the data were made based upon blank contamination.

3.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects
Between 30%-74% - results >/=MDL "J" and non-detects "UJ"
Between 126-150% - results >/=MDL "J" and
>150% - results >/= MDL "R"

Soil spike recoveries are qualified based on the criteria below:

<10% - "R" all detects and non-detects
Between 10%-74% - results >/= MDL "J" and non-detects "UJ"
Between 126-200% - results >/=MDL "J" and
>200% - results >/= MDL "R"

EP-8 (Bottom East) was selected by CA Rich field sampling personnel for MS/MSD analysis. Mercury recovered high in both MS and MSD (149%/163%). The reported result in EP-8 (Bottom East) at 0.18 ppm must be considered biased high, "J+."

Acceptable post digestion spike was analyzed.

3.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:
RPD >20% but <100% - J detected concentrations
RPD >/=100% - R all detected and non-detected concentrations

Field Duplicates:
RPD >/=35% but <120% - qualify sample and duplicate results >/= CRQL "J"
RPD >/= 120% - rejected sample and duplicate results >/= CRQL "R"

Field Duplicate analysis was collected on SB-4 (Bottom West) as EP-X. Acceptable precision was observed for all reported elements.

3.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all ICP and Mercury analysis. Associated LCS recoveries were within the acceptable limits for Metals analyses (80-120%).

3.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

3.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilutions were performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. The serial dilution analysis agrees within a 10% difference of the original determination after correction for dilution for all elements with the exception of Copper in EP-8 (Bottom East) – 41%. No qualifications were required.

3.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results.

3.10 Overall Assessment of Data

The data generated were of acceptable quality. All analysis was conducted undiluted.

Cadmium, Copper and Mercury results are usable at the concentrations presented on the Form I's.

Reviewer's Signature Lou A Bellyn **Date** 04/03/15

Appendix A
Data Form Is
With Qualifications

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:20
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A09	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	11	1.2	U	
75-34-3	1,1-Dichloroethane	ND	1.7	0.10	U	
67-66-3	Chloroform	ND	1.7	0.42	U	
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U	
78-87-5	1,2-Dichloropropane	ND	3.9	0.26	U	
124-48-1	Dibromochloromethane	ND	1.1	0.17	U	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.34	U	
127-18-4	Tetrachloroethene	ND	1.1	0.16	U	
108-90-7	Chlorobenzene	ND	1.1	0.39	U	
75-69-4	Trichlorofluoromethane	ND	5.6	0.44	U	J
107-06-2	1,2-Dichloroethane	ND	1.1	0.13	U	
71-55-6	1,1,1-Trichloroethane	8.5	1.1	0.12		J -
75-27-4	Bromodichloromethane	ND	1.1	0.19	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	U	
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U	
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U	
563-58-6	1,1-Dichloropropene	ND	5.6	0.16	U	
75-25-2	Bromoform	ND	4.5	0.26	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U	
71-43-2	Benzene	ND	1.1	0.13	U	
108-88-3	Toluene	ND	1.7	0.22	U	
100-41-4	Ethylbenzene	ND	1.1	0.14	U	
74-87-3	Chloromethane	ND	5.6	0.33	U	
74-83-9	Bromomethane	ND	2.2	0.38	U	
75-01-4	Vinyl chloride	ND	2.2	0.13	U	
75-00-3	Chloroethane	9.2	2.2	0.36		J -
75-35-4	1,1-Dichloroethene	ND	1.1	0.29	U	

for 4/3/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:20
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A09	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.24	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.10	U
179601-23-1	p/m-Xylene	ND	2.2	0.22	U
95-47-6	o-Xylene	ND	2.2	0.19	U
1330-20-7	Xylenes, Total	ND	2.2	0.19	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.16	U
74-95-3	Dibromomethane	ND	11	0.18	U
100-42-5	Styrene	ND	2.2	0.45	U
75-71-8	Dichlorodifluoromethane	ND	11	0.21	U
67-64-1	Acetone	66	11	1.2	J+
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	11	11	0.30	J+
108-05-4	Vinyl acetate	ND	11	0.15	U
108-10-1	4-Methyl-2-pentanone	ND	11	0.27	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.75	U
74-97-5	Bromochloromethane	ND	5.6	0.31	U
594-20-7	2,2-Dichloropropane	ND	5.6	0.25	U
106-93-4	1,2-Dibromoethane	ND	4.5	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.6	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.36	U
108-86-1	Bromobenzene	ND	5.6	0.23	U

ALPHA ANALYTICAL

4/2/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:20
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A09	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	0.69	1.1	0.13	~~J~~ J-
135-98-8	sec-Butylbenzene	0.79	1.1	0.14	~~J~~ J-
98-06-6	tert-Butylbenzene	ND	5.6	0.15	U
95-49-8	o-Chlorotoluene	ND	5.6	0.18	U
106-43-4	p-Chlorotoluene	ND	5.6	0.15	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.44	U
87-68-3	Hexachlorobutadiene	ND	5.6	0.26	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	0.95	1.1	0.14	~~J~~ J-
91-20-3	Naphthalene	1.2	5.6	0.16	~~J~~ J-
107-13-1	Acrylonitrile	ND	11	0.58	~~U~~ R
103-65-1	n-Propylbenzene	2.5	1.1	0.12	J-
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.16	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.20	U
108-67-8	1,3,5-Trimethylbenzene	0.76	5.6	0.16	~~J~~ J-
95-63-6	1,2,4-Trimethylbenzene	11	5.6	0.16	
123-91-1	1,4-Dioxane	ND	110	16.	~~U~~ R
105-05-5	p-Diethylbenzene	1.3	4.5	0.18	~~J~~ J-
622-96-8	p-Ethyltoluene	1.2	4.5	0.14	~~J~~ J-
95-93-2	1,2,4,5-Tetramethylbenzene	1.6	4.5	0.15	~~J~~ J-
60-29-7	Ethyl ether	ND	5.6	0.29	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	0.44	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A10	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	12	1.3	U
75-34-3	1,1-Dichloroethane	1.4	1.8	0.10	~~J~~ J -
67-66-3	Chloroform	ND	1.8	0.43	U
56-23-5	Carbon tetrachloride	ND	1.2	0.25	U
78-87-5	1,2-Dichloropropane	ND	4.1	0.27	U
124-48-1	Dibromochloromethane	ND	1.2	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.36	U
127-18-4	Tetrachloroethene	ND	1.2	0.16	U
108-90-7	Chlorobenzene	ND	1.2	0.41	U
75-69-4	Trichlorofluoromethane	ND	5.9	0.46	U J
107-06-2	1,2-Dichloroethane	ND	1.2	0.13	U
71-55-6	1,1,1-Trichloroethane	43	1.2	0.13	J -
75-27-4	Bromodichloromethane	ND	1.2	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	1.2	0.14	U
563-58-6	1,1-Dichloropropene	ND	5.9	0.17	U
75-25-2	Bromoform	ND	4.7	0.28	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.12	U
71-43-2	Benzene	ND	1.2	0.14	U
108-88-3	Toluene	0.90	1.8	0.23	~~J~~ J -
100-41-4	Ethylbenzene	0.86	1.2	0.15	~~J~~ J -
74-87-3	Chloromethane	ND	5.9	0.34	U
74-83-9	Bromomethane	ND	2.4	0.40	U
75-01-4	Vinyl chloride	ND	2.4	0.14	U
75-00-3	Chloroethane	20	2.4	0.37	J -
75-35-4	1,1-Dichloroethene	ND	1.2	0.31	U

JAR 4/13/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A10	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW ~~HIGH~~ LOW	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.25	U
79-01-6	Trichloroethene	ND	1.2	0.15	U
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.18	U
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.10	U
179601-23-1	p/m-Xylene	1.3	2.4	0.23	~~J~~ J-
95-47-6	o-Xylene	1.4	2.4	0.20	~~J~~ J-
1330-20-7	Xylenes, Total	2.7	2.4	0.20	~~J~~ J-
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.17	U
74-95-3	Dibromomethane	ND	12	0.19	U
100-42-5	Styrene	ND	2.4	0.47	U
75-71-8	Dichlorodifluoromethane	ND	12	0.22	U
67-64-1	Acetone	130	12	1.2	J+
75-15-0	Carbon disulfide	ND	12	1.3	U
78-93-3	2-Butanone	22	12	0.32	J+
108-05-4	Vinyl acetate	ND	12	0.16	U
108-10-1	4-Methyl-2-pentanone	ND	12	0.29	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	12	0.19	U
591-78-6	2-Hexanone	ND	12	0.78	U
74-97-5	Bromochloromethane	ND	5.9	0.32	U
594-20-7	2,2-Dichloropropane	ND	5.9	0.26	U
106-93-4	1,2-Dibromoethane	ND	4.7	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.9	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	0.37	U
108-86-1	Bromobenzene	ND	5.9	0.24	U

JAP 4/2/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A10	Instrument ID	: CHARLIE.I
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	ND	1.2	0.13	U
135-98-8	sec-Butylbenzene	ND	1.2	0.14	U
98-06-6	tert-Butylbenzene	ND	5.9	0.16	U
95-49-8	o-Chlorotoluene	ND	5.9	0.19	U
106-43-4	p-Chlorotoluene	ND	5.9	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	0.46	U
87-68-3	Hexachlorobutadiene	ND	5.9	0.27	U
98-82-8	Isopropylbenzene	ND	1.2	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.15	U
91-20-3	Naphthalene	4.6	5.9	0.16	~~J~~ J-
107-13-1	Acrylonitrile	ND	12	0.60	~~U~~ R
103-65-1	n-Propylbenzene	ND	1.2	0.13	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.21	U
108-67-8	1,3,5-Trimethylbenzene	2.0	5.9	0.17	~~J~~ J-
95-63-6	1,2,4-Trimethylbenzene	3.5	5.9	0.17	~~J~~ J-
123-91-1	1,4-Dioxane	ND	120	17.	~~U~~ R
105-05-5	p-Diethylbenzene	ND	4.7	0.19	U
622-96-8	p-Ethyltoluene	1.4	4.7	0.14	~~J~~ J-
95-93-2	1,2,4,5-Tetramethylbenzene	0.99	4.7	0.15	~~J~~ J-
60-29-7	Ethyl ether	ND	5.9	0.30	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.9	0.46	U

fo 3/2/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03D	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:15
Sample Matrix	: SOIL	Dilution Factor	: 2000
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A11	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	23000	2600	U
75-34-3	1,1-Dichloroethane	ND	3500	200	U
67-66-3	Chloroform	ND	3500	870	U
56-23-5	Carbon tetrachloride	ND	2300	490	U
78-87-5	1,2-Dichloropropane	ND	8200	540	U
124-48-1	Dibromochloromethane	ND	2300	360	U
79-00-5	1,1,2-Trichloroethane	ND	3500	710	U
127-18-4	Tetrachloroethene	ND	2300	330	U
108-90-7	Chlorobenzene	ND	2300	820	U
75-69-4	Trichlorofluoromethane	ND	12000	910	U J
107-06-2	1,2-Dichloroethane	ND	2300	270	U
71-55-6	1,1,1-Trichloroethane	ND	2300	260	U
75-27-4	Bromodichloromethane	ND	2300	410	U
10061-02-6	trans-1,3-Dichloropropene	ND	2300	280	U
10061-01-5	cis-1,3-Dichloropropene	ND	2300	280	U
542-75-6	1,3-Dichloropropene, Total	ND	2300	280	U
563-58-6	1,1-Dichloropropene	ND	12000	330	U
75-25-2	Bromoform	ND	9400	550	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2300	240	U
71-43-2	Benzene	ND	2300	280	U
108-88-3	Toluene	ND	3500	460	U
100-41-4	Ethylbenzene	1400	2300	300	J
74-87-3	Chloromethane	ND	12000	690	U
74-83-9	Bromomethane	ND	4700	790	U
75-01-4	Vinyl chloride	ND	4700	280	U
75-00-3	Chloroethane	ND	4700	740	U
75-35-4	1,1-Dichloroethene	ND	2300	620	U

JB 4/3/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03D	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:15
Sample Matrix	: SOIL	Dilution Factor	: 2000
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A11	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	3500	500	U
79-01-6	Trichloroethene	ND	2300	290	U
95-50-1	1,2-Dichlorobenzene	ND	12000	360	U
541-73-1	1,3-Dichlorobenzene	ND	12000	320	U
106-46-7	1,4-Dichlorobenzene	ND	12000	320	U
1634-04-4	Methyl tert butyl ether	ND	4700	200	U
179601-23-1	p/m-Xylene	2600	4700	460	J
95-47-6	o-Xylene	ND	4700	400	U
1330-20-7	Xylenes, Total	2600	4700	400	J
156-59-2	cis-1,2-Dichloroethene	ND	2300	340	U
540-59-0	1,2-Dichloroethene, Total	ND	2300	340	U
74-95-3	Dibromomethane	ND	23000	380	U
100-42-5	Styrene	ND	4700	940	U
75-71-8	Dichlorodifluoromethane	ND	23000	450	U
67-64-1	Acetone	7300	23000	2400	~~J~~ J+
75-15-0	Carbon disulfide	ND	23000	2600	U
78-93-3	2-Butanone	2000	23000	640	~~J~~ J+
108-05-4	Vinyl acetate	ND	23000	310	U
108-10-1	4-Methyl-2-pentanone	ND	23000	570	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	23000	380	U
591-78-6	2-Hexanone	ND	23000	1600	U
74-97-5	Bromochloromethane	ND	12000	650	U
594-20-7	2,2-Dichloropropane	ND	12000	530	U
106-93-4	1,2-Dibromoethane	ND	9400	410	U
142-28-9	1,3-Dichloropropane	ND	12000	340	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2300	750	U
108-86-1	Bromobenzene	ND	12000	490	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03D	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:15
Sample Matrix	: SOIL	Dilution Factor	: 2000
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A11	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: LOW HIGH	%Solids	: 85
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	ND	2300	270	U
135-98-8	sec-Butylbenzene	ND	2300	290	U
98-06-6	tert-Butylbenzene	ND	12000	320	U
95-49-8	o-Chlorotoluene	ND	12000	380	U
106-43-4	p-Chlorotoluene	ND	12000	310	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	12000	930	U
87-68-3	Hexachlorobutadiene	ND	12000	540	U
98-82-8	Isopropylbenzene	ND	2300	240	U
99-87-6	p-Isopropyltoluene	4100	2300	290	
91-20-3	Naphthalene	2300	12000	320	J
107-13-1	Acrylonitrile	ND	23000	1200	~~U~~ R
103-65-1	n-Propylbenzene	1800	2300	260	J
87-61-6	1,2,3-Trichlorobenzene	ND	12000	350	U
120-82-1	1,2,4-Trichlorobenzene	ND	12000	430	U
108-67-8	1,3,5-Trimethylbenzene	3300	12000	340	J
95-63-6	1,2,4-Trimethylbenzene	9300	12000	330	J
123-91-1	1,4-Dioxane	ND	230000	34000	~~U~~ R
105-05-5	p-Diethylbenzene	2300	9400	380	J
622-96-8	p-Ethyltoluene	6800	9400	290	J
95-93-2	1,2,4,5-Tetramethylbenzene	740	9400	300	J
60-29-7	Ethyl ether	ND	12000	610	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	12000	920	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04D	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:42
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A12	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	75	550	61.	J
75-34-3	1,1-Dichloroethane	180	83	4.7	
67-66-3	Chloroform	ND	83	20.	U
56-23-5	Carbon tetrachloride	ND	55	12.	U
78-87-5	1,2-Dichloropropane	ND	190	13.	U
124-48-1	Dibromochloromethane	ND	55	8.5	U
79-00-5	1,1,2-Trichloroethane	ND	83	17.	U
127-18-4	Tetrachloroethene	130	55	7.8	
108-90-7	Chlorobenzene	ND	55	19.	U
75-69-4	Trichlorofluoromethane	ND	280	21.	U J
107-06-2	1,2-Dichloroethane	ND	55	6.3	U
71-55-6	1,1,1-Trichloroethane	820	55	6.1	
75-27-4	Bromodichloromethane	ND	55	9.6	U
10061-02-6	trans-1,3-Dichloropropene	ND	55	6.7	U
10061-01-5	cis-1,3-Dichloropropene	ND	55	6.5	U
542-75-6	1,3-Dichloropropene, Total	ND	55	6.5	U
563-58-6	1,1-Dichloropropene	ND	280	7.8	U
75-25-2	Bromoform	ND	220	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	55	5.6	U
71-43-2	Benzene	ND	55	6.5	U
108-88-3	Toluene	430	83	11.	
100-41-4	Ethylbenzene	510	55	7.0	
74-87-3	Chloromethane	ND	280	16.	U
74-83-9	Bromomethane	ND	110	19.	U
75-01-4	Vinyl chloride	ND	110	6.5	U
75-00-3	Chloroethane	81	110	17.	J
75-35-4	1,1-Dichloroethene	ND	55	14.	U

SDG 413115

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04D	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:42
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A12	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	83	12.	U
79-01-6	Trichloroethene	150	55	6.9	
95-50-1	1,2-Dichlorobenzene	ND	280	8.5	U
541-73-1	1,3-Dichlorobenzene	ND	280	7.5	U
106-46-7	1,4-Dichlorobenzene	ND	280	7.7	U
1634-04-4	Methyl tert butyl ether	ND	110	4.7	U
179601-23-1	p/m-Xylene	1100	110	11.	
95-47-6	o-Xylene	430	110	9.5	
1330-20-7	Xylenes, Total	1500	110	9.5	
156-59-2	cis-1,2-Dichloroethene	ND	55	7.9	U
540-59-0	1,2-Dichloroethene, Total	ND	55	7.9	U
74-95-3	Dibromomethane	ND	550	9.0	U
100-42-5	Styrene	ND	110	22.	U
75-71-8	Dichlorodifluoromethane	ND	550	10.	U
67-64-1	Acetone	340	550	57.	~~J~~ J+
75-15-0	Carbon disulfide	ND	550	61.	U
78-93-3	2-Butanone	170	550	15.	~~J~~ J+
108-05-4	Vinyl acetate	ND	550	7.3	U
108-10-1	4-Methyl-2-pentanone	ND	550	14.	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	550	9.0	U
591-78-6	2-Hexanone	ND	550	37.	U
74-97-5	Bromochloromethane	ND	280	15.	U
594-20-7	2,2-Dichloropropane	ND	280	12.	U
106-93-4	1,2-Dibromoethane	ND	220	9.6	U
142-28-9	1,3-Dichloropropane	ND	280	8.0	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	55	18.	U
108-86-1	Bromobenzene	ND	280	12.	U

2/25/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04D	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:42
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A12	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	180	55	6.4	
135-98-8	sec-Butylbenzene	160	55	6.8	
98-06-6	tert-Butylbenzene	ND	280	7.5	U
95-49-8	o-Chlorotoluene	ND	280	8.8	U
106-43-4	p-Chlorotoluene	ND	280	7.4	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	280	22.	U
87-68-3	Hexachlorobutadiene	ND	280	13.	U
98-82-8	Isopropylbenzene	200	55	5.7	
99-87-6	p-Isopropyltoluene	3200	55	6.9	
91-20-3	Naphthalene	270	280	7.7	J
107-13-1	Acrylonitrile	ND	550	28.	~~U~~ R
103-65-1	n-Propylbenzene	660	55	6.0	
87-61-6	1,2,3-Trichlorobenzene	ND	280	8.2	U
120-82-1	1,2,4-Trichlorobenzene	ND	280	10.	U
108-67-8	1,3,5-Trimethylbenzene	1100	280	7.9	
95-63-6	1,2,4-Trimethylbenzene	3200	280	7.8	
123-91-1	1,4-Dioxane	ND	5500	800	~~U~~ R
105-05-5	p-Diethylbenzene	1000	220	8.8	
622-96-8	p-Ethyltoluene	2200	220	6.9	
95-93-2	1,2,4,5-Tetramethylbenzene	360	220	7.2	
60-29-7	Ethyl ether	16	280	14.	J
110-57-6	trans-1,4-Dichloro-2-butene	ND	280	22.	U

2/25/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05D	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:10
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A13	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2800	310	U
75-34-3	1,1-Dichloroethane	ND	420	24.	U
67-66-3	Chloroform	ND	420	100	U
56-23-5	Carbon tetrachloride	ND	280	59.	U
78-87-5	1,2-Dichloropropane	ND	980	64.	U
124-48-1	Dibromochloromethane	ND	280	43.	U
79-00-5	1,1,2-Trichloroethane	ND	420	85.	U
127-18-4	Tetrachloroethene	ND	280	39.	U
108-90-7	Chlorobenzene	ND	280	97.	U
75-69-4	Trichlorofluoromethane	ND	1400	110	U J
107-06-2	1,2-Dichloroethane	ND	280	32.	U
71-55-6	1,1,1-Trichloroethane	ND	280	31.	U
75-27-4	Bromodichloromethane	ND	280	48.	U
10061-02-6	trans-1,3-Dichloropropene	ND	280	34.	U
10061-01-5	cis-1,3-Dichloropropene	ND	280	33.	U
542-75-6	1,3-Dichloropropene, Total	ND	280	33.	U
563-58-6	1,1-Dichloropropene	ND	1400	40.	U
75-25-2	Bromoform	ND	1100	66.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	280	28.	U
71-43-2	Benzene	ND	280	33.	U
108-88-3	Toluene	ND	420	54.	U
100-41-4	Ethylbenzene	1100	280	36.	
74-87-3	Chloromethane	ND	1400	82.	U
74-83-9	Bromomethane	ND	560	95.	U
75-01-4	Vinyl chloride	ND	560	33.	U
75-00-3	Chloroethane	ND	560	88.	U
75-35-4	1,1-Dichloroethene	ND	280	73.	U

4/13/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05D	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:10
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A13	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	420	59.	U
79-01-6	Trichloroethene	ND	280	35.	U
95-50-1	1,2-Dichlorobenzene	ND	1400	43.	U
541-73-1	1,3-Dichlorobenzene	ND	1400	38.	U
106-46-7	1,4-Dichlorobenzene	ND	1400	39.	U
1634-04-4	Methyl tert butyl ether	ND	560	24.	U
179601-23-1	p/m-Xylene	480	560	55.	J
95-47-6	o-Xylene	ND	560	48.	U
1330-20-7	Xylenes, Total	480	560	48.	J
156-59-2	cis-1,2-Dichloroethene	ND	280	40.	U
540-59-0	1,2-Dichloroethene, Total	ND	280	40.	U
74-95-3	Dibromomethane	ND	2800	46.	U
100-42-5	Styrene	ND	560	110	U
75-71-8	Dichlorodifluoromethane	ND	2800	53.	U
67-64-1	Acetone	1100	2800	290	~~J~~ J+
75-15-0	Carbon disulfide	ND	2800	310	U
78-93-3	2-Butanone	480	2800	76.	~~J~~ J+
108-05-4	Vinyl acetate	ND	2800	37.	U
108-10-1	4-Methyl-2-pentanone	ND	2800	68.	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	2800	46.	U
591-78-6	2-Hexanone	ND	2800	190	U
74-97-5	Bromochloromethane	ND	1400	77.	U
594-20-7	2,2-Dichloropropane	ND	1400	63.	U
106-93-4	1,2-Dibromoethane	ND	1100	49.	U
142-28-9	1,3-Dichloropropane	ND	1400	41.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	280	89.	U
108-86-1	Bromobenzene	ND	1400	58.	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05D	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:10
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A13	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 89
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	450	280	32.	
135-98-8	sec-Butylbenzene	360	280	34.	
98-06-6	tert-Butylbenzene	ND	1400	38.	U
95-49-8	o-Chlorotoluene	ND	1400	45.	U
106-43-4	p-Chlorotoluene	ND	1400	37.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1400	110	U
87-68-3	Hexachlorobutadiene	ND	1400	64.	U
98-82-8	Isopropylbenzene	460	280	29.	
99-87-6	p-Isopropyltoluene	490	280	35.	
91-20-3	Naphthalene	420	1400	39.	J
107-13-1	Acrylonitrile	ND	2800	140	~~U~~ R
103-65-1	n-Propylbenzene	1500	280	30.	
87-61-6	1,2,3-Trichlorobenzene	ND	1400	41.	U
120-82-1	1,2,4-Trichlorobenzene	ND	1400	51.	U
108-67-8	1,3,5-Trimethylbenzene	380	1400	40.	J
95-63-6	1,2,4-Trimethylbenzene	520	1400	40.	J
123-91-1	1,4-Dioxane	ND	28000	4000	~~U~~ R
105-05-5	p-Diethylbenzene	640	1100	45.	J
622-96-8	p-Ethyltoluene	1300	1100	35.	
95-93-2	1,2,4,5-Tetramethylbenzene	800	1100	36.	J
60-29-7	Ethyl ether	ND	1400	73.	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	1400	110	U

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Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06D	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:37
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A14	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: LOW HIGH	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	600	66.	U
75-34-3	1,1-Dichloroethane	ND	90	5.1	U
67-66-3	Chloroform	ND	90	22.	U
56-23-5	Carbon tetrachloride	ND	60	12.	U
78-87-5	1,2-Dichloropropane	ND	210	14.	U
124-48-1	Dibromochloromethane	ND	60	9.2	U
79-00-5	1,1,2-Trichloroethane	ND	90	18.	U
127-18-4	Tetrachloroethene	ND	60	8.4	U
108-90-7	Chlorobenzene	ND	60	21.	U
75-69-4	Trichlorofluoromethane	ND	300	23.	U J
107-06-2	1,2-Dichloroethane	ND	60	6.8	U
71-55-6	1,1,1-Trichloroethane	ND	60	6.6	U
75-27-4	Bromodichloromethane	ND	60	10.	U
10061-02-6	trans-1,3-Dichloropropene	ND	60	7.2	U
10061-01-5	cis-1,3-Dichloropropene	ND	60	7.0	U
542-75-6	1,3-Dichloropropene, Total	ND	60	7.0	U
563-58-6	1,1-Dichloropropene	ND	300	8.5	U
75-25-2	Bromoform	ND	240	14.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	60	6.0	U
71-43-2	Benzene	ND	60	7.1	U
108-88-3	Toluene	ND	90	12.	U
100-41-4	Ethylbenzene	ND	60	7.6	U
74-87-3	Chloromethane	ND	300	18.	U
74-83-9	Bromomethane	ND	120	20.	U
75-01-4	Vinyl chloride	ND	120	7.0	U
75-00-3	Chloroethane	ND	120	19.	U
75-35-4	1,1-Dichloroethene	ND	60	16.	U

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Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06D	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:37
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A14	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	90	13.	U
79-01-6	Trichloroethene	ND	60	7.5	U
95-50-1	1,2-Dichlorobenzene	ND	300	9.2	U
541-73-1	1,3-Dichlorobenzene	ND	300	8.1	U
106-46-7	1,4-Dichlorobenzene	ND	300	8.3	U
1634-04-4	Methyl tert butyl ether	ND	120	5.0	U
179601-23-1	p/m-Xylene	ND	120	12.	U
95-47-6	o-Xylene	ND	120	10.	U
1330-20-7	Xylenes, Total	ND	120	10.	U
156-59-2	cis-1,2-Dichloroethene	ND	60	8.6	U
540-59-0	1,2-Dichloroethene, Total	ND	60	8.6	U
74-95-3	Dibromomethane	ND	600	9.8	U
100-42-5	Styrene	ND	120	24.	U
75-71-8	Dichlorodifluoromethane	ND	600	11.	U
67-64-1	Acetone	320	600	62.	~~J~~ J+
75-15-0	Carbon disulfide	ND	600	66.	U
78-93-3	2-Butanone	160	600	16.	~~J~~ J+
108-05-4	Vinyl acetate	ND	600	7.9	U
108-10-1	4-Methyl-2-pentanone	ND	600	15.	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	600	9.7	U
591-78-6	2-Hexanone	ND	600	40.	U
74-97-5	Bromochloromethane	ND	300	16.	U
594-20-7	2,2-Dichloropropane	ND	300	14.	U
106-93-4	1,2-Dibromoethane	ND	240	10.	U
142-28-9	1,3-Dichloropropane	ND	300	8.7	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	60	19.	U
108-86-1	Bromobenzene	ND	300	12.	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06D	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 13:37
Sample Matrix	: SOIL	Dilution Factor	: 50
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A14	Instrument ID	: CHARLIE.I
Sample Amount	: 0.1 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	ND	60	6.9	U
135-98-8	sec-Butylbenzene	ND	60	7.3	U
98-06-6	tert-Butylbenzene	ND	300	8.1	U
95-49-8	o-Chlorotoluene	ND	300	9.6	U
106-43-4	p-Chlorotoluene	ND	300	8.0	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	24.	U
87-68-3	Hexachlorobutadiene	ND	300	14.	U
98-82-8	Isopropylbenzene	ND	60	6.2	U
99-87-6	p-Isopropyltoluene	ND	60	7.5	U
91-20-3	Naphthalene	ND	300	8.3	U
107-13-1	Acrylonitrile	ND	600	31.	~~U~~ R
103-65-1	n-Propylbenzene	ND	60	6.5	U
87-61-6	1,2,3-Trichlorobenzene	ND	300	8.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	300	11.	U
108-67-8	1,3,5-Trimethylbenzene	ND	300	8.6	U
95-63-6	1,2,4-Trimethylbenzene	ND	300	8.5	U
123-91-1	1,4-Dioxane	ND	6000	860	~~U~~ R
105-05-5	p-Diethylbenzene	20	240	9.6	J
622-96-8	p-Ethyltoluene	ND	240	7.4	U
95-93-2	1,2,4,5-Tetramethylbenzene	22	240	7.8	J
60-29-7	Ethyl ether	ND	300	16.	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	300	24.	U

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Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07D	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:04
Sample Matrix	: SOIL	Dilution Factor	: 500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A15	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH (TB)	%Solids	: 84
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5900	650	U
75-34-3	1,1-Dichloroethane	ND	890	51.	U
67-66-3	Chloroform	ND	890	220	U
56-23-5	Carbon tetrachloride	ND	590	120	U
78-87-5	1,2-Dichloropropane	ND	2100	140	U
124-48-1	Dibromochloromethane	ND	590	91.	U
79-00-5	1,1,2-Trichloroethane	ND	890	180	U
127-18-4	Tetrachloroethene	ND	590	83.	U
108-90-7	Chlorobenzene	ND	590	210	U
75-69-4	Trichlorofluoromethane	ND	3000	230	U J
107-06-2	1,2-Dichloroethane	ND	590	67.	U
71-55-6	1,1,1-Trichloroethane	440	590	66.	J
75-27-4	Bromodichloromethane	ND	590	100	U
10061-02-6	trans-1,3-Dichloropropene	ND	590	72.	U
10061-01-5	cis-1,3-Dichloropropene	ND	590	70.	U
542-75-6	1,3-Dichloropropene, Total	ND	590	70.	U
563-58-6	1,1-Dichloropropene	ND	3000	84.	U
75-25-2	Bromoform	ND	2400	140	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	590	60.	U
71-43-2	Benzene	ND	590	70.	U
108-88-3	Toluene	970	890	120	
100-41-4	Ethylbenzene	4200	590	75.	
74-87-3	Chloromethane	ND	3000	170	U
74-83-9	Bromomethane	ND	1200	200	U
75-01-4	Vinyl chloride	ND	1200	70.	U
75-00-3	Chloroethane	420	1200	190	J
75-35-4	1,1-Dichloroethene	ND	590	160	U

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Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07D	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:04
Sample Matrix	: SOIL	Dilution Factor	: 500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A15	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 84
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	890	120	U
79-01-6	Trichloroethene	ND	590	74.	U
95-50-1	1,2-Dichlorobenzene	ND	3000	91.	U
541-73-1	1,3-Dichlorobenzene	ND	3000	80.	U
106-46-7	1,4-Dichlorobenzene	ND	3000	82.	U
1634-04-4	Methyl tert butyl ether	ND	1200	50.	U
179601-23-1	p/m-Xylene	4600	1200	120	
95-47-6	o-Xylene	1100	1200	100	J
1330-20-7	Xylenes, Total	5700	1200	100	J
156-59-2	cis-1,2-Dichloroethene	ND	590	84.	U
540-59-0	1,2-Dichloroethene, Total	ND	590	84.	U
74-95-3	Dibromomethane	ND	5900	97.	U
100-42-5	Styrene	ND	1200	240	U
75-71-8	Dichlorodifluoromethane	ND	5900	110	U
67-64-1	Acetone	1800	5900	610	~~J~~ J+
75-15-0	Carbon disulfide	ND	5900	650	U
78-93-3	2-Butanone	510	5900	160	~~J~~ J+
108-05-4	Vinyl acetate	ND	5900	78.	U
108-10-1	4-Methyl-2-pentanone	ND	5900	140	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	5900	96.	U
591-78-6	2-Hexanone	ND	5900	390	U
74-97-5	Bromochloromethane	ND	3000	160	U
594-20-7	2,2-Dichloropropane	ND	3000	130	U
106-93-4	1,2-Dibromoethane	ND	2400	100	U
142-28-9	1,3-Dichloropropane	ND	3000	86.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	590	190	U
108-86-1	Bromobenzene	ND	3000	120	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07D	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:04
Sample Matrix	: SOIL	Dilution Factor	: 500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A15	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 84
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	870	590	68.	
135-98-8	sec-Butylbenzene	760	590	72.	
98-06-6	tert-Butylbenzene	ND	3000	80.	U
95-49-8	o-Chlorotoluene	ND	3000	95.	U
106-43-4	p-Chlorotoluene	ND	3000	79.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3000	230	U
87-68-3	Hexachlorobutadiene	ND	3000	140	U
98-82-8	Isopropylbenzene	1200	590	61.	
99-87-6	p-Isopropyltoluene	8400	590	74.	
91-20-3	Naphthalene	1800	3000	82.	J
107-13-1	Acrylonitrile	ND	5900	300	~~U~~ R
103-65-1	n-Propylbenzene	3500	590	65.	
87-61-6	1,2,3-Trichlorobenzene	ND	3000	87.	U
120-82-1	1,2,4-Trichlorobenzene	ND	3000	110	U
108-67-8	1,3,5-Trimethylbenzene	3700	3000	85.	
95-63-6	1,2,4-Trimethylbenzene	11000	3000	84.	
123-91-1	1,4-Dioxane	ND	59000	8500	~~U~~ R
105-05-5	p-Diethylbenzene	3300	2400	95.	
622-96-8	p-Ethyltoluene	6800	2400	73.	
95-93-2	1,2,4,5-Tetramethylbenzene	2000	2400	77.	J
60-29-7	Ethyl ether	ND	3000	150	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	3000	230	U

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Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08D	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:31
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A16	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 72
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	3500	380	U
75-34-3	1,1-Dichloroethane	ND	520	30.	U
67-66-3	Chloroform	ND	520	130	U
56-23-5	Carbon tetrachloride	ND	350	73.	U
78-87-5	1,2-Dichloropropane	ND	1200	79.	U
124-48-1	Dibromochloromethane	ND	350	53.	U
79-00-5	1,1,2-Trichloroethane	ND	520	100	U
127-18-4	Tetrachloroethene	ND	350	49.	U
108-90-7	Chlorobenzene	ND	350	120	U
75-69-4	Trichlorofluoromethane	ND	1700	130	U J
107-06-2	1,2-Dichloroethane	ND	350	39.	U
71-55-6	1,1,1-Trichloroethane	ND	350	38.	U
75-27-4	Bromodichloromethane	ND	350	60.	U
10061-02-6	trans-1,3-Dichloropropene	ND	350	42.	U
10061-01-5	cis-1,3-Dichloropropene	ND	350	41.	U
542-75-6	1,3-Dichloropropene, Total	ND	350	41.	U
563-58-6	1,1-Dichloropropene	ND	1700	49.	U
75-25-2	Bromoform	ND	1400	82.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	350	35.	U
71-43-2	Benzene	ND	350	41.	U
108-88-3	Toluene	ND	520	68.	U
100-41-4	Ethylbenzene	ND	350	44.	U
74-87-3	Chloromethane	ND	1700	100	U
74-83-9	Bromomethane	ND	690	120	U
75-01-4	Vinyl chloride	ND	690	41.	U
75-00-3	Chloroethane	500	690	110	J
75-35-4	1,1-Dichloroethene	ND	350	91.	U

4/13/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08D	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:31
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A16	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 72
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	520	74.	U
79-01-6	Trichloroethene	ND	350	43.	U
95-50-1	1,2-Dichlorobenzene	ND	1700	53.	U
541-73-1	1,3-Dichlorobenzene	ND	1700	47.	U
106-46-7	1,4-Dichlorobenzene	ND	1700	48.	U
1634-04-4	Methyl tert butyl ether	ND	690	29.	U
179601-23-1	p/m-Xylene	220	690	69.	J
95-47-6	o-Xylene	ND	690	60.	U
1330-20-7	Xylenes, Total	220	690	60.	J
156-59-2	cis-1,2-Dichloroethene	ND	350	50.	U
540-59-0	1,2-Dichloroethene, Total	ND	350	50.	U
74-95-3	Dibromomethane	ND	3500	57.	U
100-42-5	Styrene	ND	690	140	U
75-71-8	Dichlorodifluoromethane	ND	3500	66.	U
67-64-1	Acetone	1300	3500	360	~~J~~ J+
75-15-0	Carbon disulfide	ND	3500	380	U
78-93-3	2-Butanone	460	3500	94.	~~J~~ J+
108-05-4	Vinyl acetate	ND	3500	46.	U
108-10-1	4-Methyl-2-pentanone	ND	3500	85.	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	3500	56.	U
591-78-6	2-Hexanone	ND	3500	230	U
74-97-5	Bromochloromethane	ND	1700	96.	U
594-20-7	2,2-Dichloropropane	ND	1700	78.	U
106-93-4	1,2-Dibromoethane	ND	1400	60.	U
142-28-9	1,3-Dichloropropane	ND	1700	50.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	350	110	U
108-86-1	Bromobenzene	ND	1700	72.	U

2/25/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08D	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 14:31
Sample Matrix	: SOIL	Dilution Factor	: 250
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A16	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 72
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	ND	350	40.	U
135-98-8	sec-Butylbenzene	ND	350	42.	U
98-06-6	tert-Butylbenzene	ND	1700	47.	U
95-49-8	o-Chlorotoluene	ND	1700	55.	U
106-43-4	p-Chlorotoluene	ND	1700	46.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1700	140	U
87-68-3	Hexachlorobutadiene	ND	1700	79.	U
98-82-8	Isopropylbenzene	ND	350	36.	U
99-87-6	p-Isopropyltoluene	ND	350	43.	U
91-20-3	Naphthalene	ND	1700	48.	U
107-13-1	Acrylonitrile	ND	3500	180	~~U~~ R
103-65-1	n-Propylbenzene	210	350	38.	J
87-61-6	1,2,3-Trichlorobenzene	ND	1700	51.	U
120-82-1	1,2,4-Trichlorobenzene	ND	1700	63.	U
108-67-8	1,3,5-Trimethylbenzene	ND	1700	50.	U
95-63-6	1,2,4-Trimethylbenzene	ND	1700	49.	U
123-91-1	1,4-Dioxane	ND	35000	5000	~~U~~ R
105-05-5	p-Diethylbenzene	ND	1400	55.	U
622-96-8	p-Ethyltoluene	ND	1400	43.	U
95-93-2	1,2,4,5-Tetramethylbenzene	93	1400	45.	J
60-29-7	Ethyl ether	ND	1700	90.	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	1700	140	U

2/25/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09D	Date Collected	: 02/21/15 00:00
Client ID	: EP-X (EP-Y Bottom west)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 15:52
Sample Matrix	: SOIL	Dilution Factor	: 2500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A19	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 88
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	28000	3100	U
75-34-3	1,1-Dichloroethane	ND	4200	240	U
67-66-3	Chloroform	ND	4200	1000	U
56-23-5	Carbon tetrachloride	ND	2800	600	U
78-87-5	1,2-Dichloropropane	ND	9900	650	U
124-48-1	Dibromochloromethane	ND	2800	440	U
79-00-5	1,1,2-Trichloroethane	ND	4200	860	U
127-18-4	Tetrachloroethene	ND	2800	400	U
108-90-7	Chlorobenzene	ND	2800	990	U
75-69-4	Trichlorofluoromethane	ND	14000	1100	U J
107-06-2	1,2-Dichloroethane	ND	2800	320	U
71-55-6	1,1,1-Trichloroethane	ND	2800	310	U
75-27-4	Bromodichloromethane	ND	2800	490	U
10061-02-6	trans-1,3-Dichloropropene	ND	2800	340	U
10061-01-5	cis-1,3-Dichloropropene	ND	2800	330	U
542-75-6	1,3-Dichloropropene, Total	ND	2800	330	U
563-58-6	1,1-Dichloropropene	ND	14000	400	U
75-25-2	Bromoform	ND	11000	670	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2800	290	U
71-43-2	Benzene	ND	2800	330	U
108-88-3	Toluene	ND	4200	550	U
100-41-4	Ethylbenzene	ND	2800	360	U
74-87-3	Chloromethane	ND	14000	830	U
74-83-9	Bromomethane	ND	5700	960	U
75-01-4	Vinyl chloride	ND	5700	330	U
75-00-3	Chloroethane	ND	5700	900	U
75-35-4	1,1-Dichloroethene	ND	2800	740	U

for 4/11/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09D	Date Collected	: 02/21/15 00:00
Client ID	: EP-X (EP-4 - Bottom West)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 15:52
Sample Matrix	: SOIL	Dilution Factor	: 2500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A19	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 88
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	4200	600	U
79-01-6	Trichloroethene	ND	2800	350	U
95-50-1	1,2-Dichlorobenzene	ND	14000	430	U
541-73-1	1,3-Dichlorobenzene	ND	14000	380	U
106-46-7	1,4-Dichlorobenzene	ND	14000	390	U
1634-04-4	Methyl tert butyl ether	ND	5700	240	U
179601-23-1	p/m-Xylene	ND	5700	560	U
95-47-6	o-Xylene	ND	5700	490	U
1330-20-7	Xylenes, Total	ND	5700	490	U
156-59-2	cis-1,2-Dichloroethene	ND	2800	400	U
540-59-0	1,2-Dichloroethene, Total	ND	2800	400	U
74-95-3	Dibromomethane	ND	28000	460	U
100-42-5	Styrene	ND	5700	1100	U
75-71-8	Dichlorodifluoromethane	ND	28000	540	U
67-64-1	Acetone	9600	28000	2900	~~U~~ J+
75-15-0	Carbon disulfide	ND	28000	3100	U
78-93-3	2-Butanone	ND	28000	770	~~U~~ R
108-05-4	Vinyl acetate	ND	28000	380	U
108-10-1	4-Methyl-2-pentanone	ND	28000	690	~~U~~ R
96-18-4	1,2,3-Trichloropropane	ND	28000	460	U
591-78-6	2-Hexanone	ND	28000	1900	U
74-97-5	Bromochloromethane	ND	14000	780	U
594-20-7	2,2-Dichloropropane	ND	14000	640	U
106-93-4	1,2-Dibromoethane	ND	11000	490	U
142-28-9	1,3-Dichloropropane	ND	14000	410	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2800	900	U
108-86-1	Bromobenzene	ND	14000	590	U

3/4/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09D	Date Collected	: 02/21/15 00:00
Client ID	: EP-X (EP-4 - Bottom west)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 15:52
Sample Matrix	: SOIL	Dilution Factor	: 2500
Analytical Method	: 1,8260C	Analyst	: BN
Lab File ID	: 0225A19	Instrument ID	: CHARLIE.I
Sample Amount	: 0.0 g	GC Column	: RTX-VMS
Level	: ~~LOW~~ HIGH	%Solids	: 88
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
104-51-8	n-Butylbenzene	ND	2800	320	U
135-98-8	sec-Butylbenzene	ND	2800	350	U
98-06-6	tert-Butylbenzene	ND	14000	380	U
95-49-8	o-Chlorotoluene	ND	14000	450	U
106-43-4	p-Chlorotoluene	ND	14000	380	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	14000	1100	U
87-68-3	Hexachlorobutadiene	ND	14000	650	U
98-82-8	Isopropylbenzene	ND	2800	290	U
99-87-6	p-Isopropyltoluene	ND	2800	350	U
91-20-3	Naphthalene	ND	14000	390	U
107-13-1	Acrylonitrile	ND	28000	1400	~~U~~ R
103-65-1	n-Propylbenzene	2600	2800	310	~~J~~ J+
87-61-6	1,2,3-Trichlorobenzene	ND	14000	420	U
120-82-1	1,2,4-Trichlorobenzene	ND	14000	520	U
108-67-8	1,3,5-Trimethylbenzene	ND	14000	410	U
95-63-6	1,2,4-Trimethylbenzene	ND	14000	400	U
123-91-1	1,4-Dioxane	ND	280000	41000	~~U~~ R
105-05-5	p-Diethylbenzene	630	11000	450	J
622-96-8	p-Ethyltoluene	ND	11000	350	U
95-93-2	1,2,4,5-Tetramethylbenzene	1400	11000	370	J
60-29-7	Ethyl ether	ND	14000	740	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	14000	1100	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-10	Date Collected	: 02/21/15 00:00
Client ID	: TRIP BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A20	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	2.5	0.70	U	
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U	
67-66-3	Chloroform	ND	2.5	0.70	U	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U	
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U	
124-48-1	Dibromochloromethane	ND	0.50	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U	
127-18-4	Tetrachloroethene	ND	0.50	0.18	U	
108-90-7	Chlorobenzene	ND	2.5	0.70	U	
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U	
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U	
75-25-2	Bromoform	ND	2.0	0.65	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U	
71-43-2	Benzene	ND	0.50	0.16	U	
108-88-3	Toluene	ND	2.5	0.70	U	
100-41-4	Ethylbenzene	ND	2.5	0.70	U	
74-87-3	Chloromethane	ND	2.5	0.70	U	J
74-83-9	Bromomethane	ND	2.5	0.70	U	R
75-01-4	Vinyl chloride	ND	1.0	0.33	U	J
75-00-3	Chloroethane	ND	2.5	0.70	U	R
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U	J

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-10	Date Collected	: 02/21/15 00:00
Client ID	: TRIP BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A20	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U J
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U J
67-64-1	Acetone	ND	5.0	1.5	~~U J~~ R
75-15-0	Carbon disulfide	ND	5.0	1.0	U J
78-93-3	2-Butanone	ND	5.0	1.9	~~U~~ R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	~~U~~ R
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JOP 4/1/15

ALPHA ANALYTICAL

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-10	Date Collected	: 02/21/15 00:00
Client ID	: TRIP BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A20	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

2/27/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A21	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U J R
74-83-9	Bromomethane	ND	2.5	0.70	U R J
75-01-4	Vinyl chloride	ND	1.0	0.33	U J
75-00-3	Chloroethane	ND	2.5	0.70	U R J
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U J

2/25/15

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A21	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U J
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U J
67-64-1	Acetone	ND	5.0	1.5	~~U~~ ~~J~~ R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	~~U~~ R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	~~U~~ R
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

Form 1
Volatile Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 17:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0224A21	Instrument ID	: VOA105.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

2/24/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 02:40
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150226b-31	Analyst	: SS
Sample Amount	: 15.54 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.74	0.340	U
58-89-9	Lindane	ND	0.723	0.323	U
319-84-6	Alpha-BHC	ND	0.723	0.205	U
319-85-7	Beta-BHC	ND	1.74	0.658	U
76-44-8	Heptachlor	ND	0.868	0.389	U
309-00-2	Aldrin	ND	1.74	0.611	U
1024-57-3	Heptachlor epoxide	ND	3.25	0.976	U
72-20-8	Endrin	ND	0.723	0.296	U
53494-70-5	Endrin ketone	ND	1.74	0.447	U
60-57-1	Dieldrin	ND	1.08	0.542	U
50-29-3	4,4'-DDT	ND	3.25	1.40	U
959-98-8	Endosulfan I	ND	1.74	0.410	U
33213-65-9	Endosulfan II	ND	1.74	0.580	U
1031-07-8	Endosulfan sulfate	ND	0.723	0.344	U
72-43-5	Methoxychlor	ND	3.25	1.01	U
8001-35-2	Toxaphene	ND	32.5	9.11	U
5103-71-9	cis-Chlordane	ND	2.17	0.604	U
5103-74-2	trans-Chlordane	ND	2.17	0.573	U
57-74-9	Chlordane	ND	14.1	5.75	U

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 02:40
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150226b-31	Analyst	: SS
Sample Amount	: 15.54 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
72-55-9	4,4'-DDE	1.66	1.74	0.401	J
72-54-8	4,4'-DDD	7.02	1.74	0.619	

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02D	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 03:32
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-35	Analyst	: SS
Sample Amount	: 15.41 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	18.3	3.58	U
58-89-9	Lindane	ND	7.62	3.41	U
319-84-6	Alpha-BHC	ND	7.62	2.16	U
319-85-7	Beta-BHC	ND	18.3	6.94	U
76-44-8	Heptachlor	ND	9.15	4.10	U
309-00-2	Aldrin	ND	18.3	6.44	U
1024-57-3	Heptachlor epoxide	ND	34.3	10.3	U
72-20-8	Endrin	ND	7.62	3.13	U
53494-70-5	Endrin ketone	ND	18.3	4.71	U
60-57-1	Dieldrin	ND	11.4	5.72	U
72-55-9	4,4'-DDE	ND	18.3	4.23	U
72-54-8	4,4'-DDD	39.6	18.3	6.53	
50-29-3	4,4'-DDT	65.2	34.3	14.7	J
959-98-8	Endosulfan I	ND	18.3	4.32	U
33213-65-9	Endosulfan II	ND	18.3	6.12	U
1031-07-8	Endosulfan sulfate	ND	7.62	3.63	U
72-43-5	Methoxychlor	ND	34.3	10.7	U
8001-35-2	Toxaphene	ND	343	96.1	U
57-74-9	Chlordane	ND	149	60.6	U

4/3/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02D	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 03:32
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-35	Analyst	: SS
Sample Amount	: 15.41 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
5103-71-9	cis-Chlordane	26.4	22.9	6.37	
5103-74-2	trans-Chlordane	40.6	22.9	6.04	

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03D	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 03:45
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-36	Analyst	: SS
Sample Amount	: 15.31 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 85
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	18.4	3.60	U
58-89-9	Lindane	ND	7.67	3.43	U
319-84-6	Alpha-BHC	ND	7.67	2.18	U
319-85-7	Beta-BHC	ND	18.4	6.98	U
76-44-8	Heptachlor	ND	9.20	4.12	U
309-00-2	Aldrin	ND	18.4	6.48	U
1024-57-3	Heptachlor epoxide	ND	34.5	10.3	U
72-20-8	Endrin	ND	7.67	3.14	U
53494-70-5	Endrin ketone	ND	18.4	4.74	U
60-57-1	Dieldrin	465	11.5	5.75	
72-55-9	4,4'-DDE	ND	18.4	4.25	U
72-54-8	4,4'-DDD	ND	18.4	6.56	U
50-29-3	4,4'-DDT	ND	34.5	14.8	U
959-98-8	Endosulfan I	ND	18.4	4.35	U
33213-65-9	Endosulfan II	ND	18.4	6.15	U
1031-07-8	Endosulfan sulfate	ND	7.67	3.65	U
72-43-5	Methoxychlor	ND	34.5	10.7	U
8001-35-2	Toxaphene	ND	345	96.6	U
5103-71-9	cis-Chlordane	615	23.0	6.41	
5103-74-2	trans-Chlordane	481	23.0	6.07	
57-74-9	Chlordane	5350	149	60.9	

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 00:23
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-12	Analyst	: SS
Sample Amount	: 15.32 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 90
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.73	0.340	U
58-89-9	Lindane	ND	0.723	0.323	U
319-84-6	Alpha-BHC	ND	0.723	0.205	U
319-85-7	Beta-BHC	ND	1.73	0.658	U
76-44-8	Heptachlor	ND	0.867	0.389	U
309-00-2	Aldrin	47.5	1.73	0.611	J —
1024-57-3	Heptachlor epoxide	ND	3.25	0.976	U
72-20-8	Endrin	ND	0.723	0.296	U
53494-70-5	Endrin ketone	ND	1.73	0.447	U
60-57-1	Dieldrin	277	1.08	0.542	~~E~~ R
72-55-9	4,4'-DDE	ND	1.73	0.401	U
72-54-8	4,4'-DDD	ND	1.73	0.619	U
50-29-3	4,4'-DDT	ND	3.25	1.40	U
959-98-8	Endosulfan I	ND	1.73	0.410	U
33213-65-9	Endosulfan II	ND	1.73	0.580	U
1031-07-8	Endosulfan sulfate	ND	0.723	0.344	U
72-43-5	Methoxychlor	ND	3.25	1.01	U
8001-35-2	Toxaphene	ND	32.5	9.11	U
5103-71-9	cis-Chlordane	414	2.17	0.604	~~E~~ R
57-74-9	Chlordane	2080	14.1	5.75	

for 4/13/15

ALPHA ANALYTICAL

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 00:23
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-12	Analyst	: SS
Sample Amount	: 15.32 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 90
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
5103-74-2	trans-Chlordane	1760	2.17	0.572	~~E~~ R

fop 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04D	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 03:58
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-37	Analyst	: SS
Sample Amount	: 15.32 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 90
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
60-57-1	Dieldrin	329	10.8	5.42	D
5103-71-9	cis-Chlordane	323	21.7	6.04	D
5103-74-2	trans-Chlordane	304	21.7	5.72	D

JOF 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 00:36
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-13	Analyst	: SS
Sample Amount	: 15.54 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.73	0.339	U
58-89-9	Lindane	ND	0.721	0.322	U
319-84-6	Alpha-BHC	ND	0.721	0.205	U
319-85-7	Beta-BHC	ND	1.73	0.656	U
76-44-8	Heptachlor	ND	0.865	0.388	U
309-00-2	Aldrin	926	1.73	0.609	~~E~~ R
1024-57-3	Heptachlor epoxide	ND	3.24	0.973	U
72-20-8	Endrin	ND	0.721	0.295	U
53494-70-5	Endrin ketone	ND	1.73	0.445	U
60-57-1	Dieldrin	543	1.08	0.540	~~E~~ R
72-55-9	4,4'-DDE	ND	1.73	0.400	U
72-54-8	4,4'-DDD	ND	1.73	0.617	U
50-29-3	4,4'-DDT	ND	3.24	1.39	U
959-98-8	Endosulfan I	ND	1.73	0.408	U
33213-65-9	Endosulfan II	ND	1.73	0.578	U
1031-07-8	Endosulfan sulfate	ND	0.721	0.343	U
72-43-5	Methoxychlor	ND	3.24	1.01	U
8001-35-2	Toxaphene	ND	32.4	9.08	U
5103-71-9	cis-Chlordane	1630	2.16	0.602	~~E~~ R
57-74-9	Chlordane	7550	14.0	5.73	~~E~~ R

SDM 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 00:36
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-13	Analyst	: SS
Sample Amount	: 15.54 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
5103-74-2	trans-Chlordane	1220	2.16	0.571	~~E~~ R

JM 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05D	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 04:12
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-38	Analyst	: SS
Sample Amount	: 15.54 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 89
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
309-00-2	Aldrin	1390	17.3	6.09	D
60-57-1	Dieldrin	664	10.8	5.40	~~P~~ JD
5103-71-9	cis-Chlordane	1350	21.6	6.02	D
5103-74-2	trans-Chlordane	1430	21.6	5.71	D
57-74-9	Chlordane	11400	140	57.3	D

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 02:53
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150226b-32	Analyst	: SS
Sample Amount	: 15.51 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 83
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
319-86-8	Delta-BHC	ND	1.86	0.363	U	
58-89-9	Lindane	ND	0.773	0.346	U	
319-84-6	Alpha-BHC	ND	0.773	0.220	U	
319-85-7	Beta-BHC	ND	1.86	0.703	U	
76-44-8	Heptachlor	ND	0.928	0.416	U	
309-00-2	Aldrin	11.2	1.86	0.653		
1024-57-3	Heptachlor epoxide	ND	3.48	1.04	U	
72-20-8	Endrin	ND	0.773	0.317	U	
53494-70-5	Endrin ketone	ND	1.86	0.478	U	
60-57-1	Dieldrin	ND	1.16	0.580	U	
72-55-9	4,4'-DDE	4.51	1.86	0.429		
72-54-8	4,4'-DDD	7.32	1.86	0.662		
50-29-3	4,4'-DDT	ND	3.48	1.49	U	
959-98-8	Endosulfan I	ND	1.86	0.438	U	
33213-65-9	Endosulfan II	ND	1.86	0.620	U	
1031-07-8	Endosulfan sulfate	ND	0.773	0.368	U	
72-43-5	Methoxychlor	ND	3.48	1.08	U	
8001-35-2	Toxaphene	ND	34.8	9.74	U	
5103-71-9	cis-Chlordane	8.83	2.32	0.646		J
5103-74-2	trans-Chlordane	15.6	2.32	0.612	~~PI~~	J

fo 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 02:53
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150226b-32	Analyst	: SS
Sample Amount	: 15.51 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 83
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-74-9	Chlordane	133	15.1	6.14	

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 01:02
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-15	Analyst	: SS
Sample Amount	: 15.64 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 84
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.82	0.356	U
58-89-9	Lindane	ND	0.758	0.339	U
319-84-6	Alpha-BHC	ND	0.758	0.215	U
319-85-7	Beta-BHC	ND	1.82	0.689	U
76-44-8	Heptachlor	ND	0.909	0.408	U
309-00-2	Aldrin	715	1.82	0.640	~~E~~ R
1024-57-3	Heptachlor epoxide	ND	3.41	1.02	U
72-20-8	Endrin	ND	0.758	0.311	U
53494-70-5	Endrin ketone	ND	1.82	0.468	U
60-57-1	Dieldrin	656	1.14	0.568	~~E~~ R
72-55-9	4,4'-DDE	ND	1.82	0.420	U
72-54-8	4,4'-DDD	ND	1.82	0.648	U
50-29-3	4,4'-DDT	ND	3.41	1.46	U
959-98-8	Endosulfan I	ND	1.82	0.430	U
33213-65-9	Endosulfan II	ND	1.82	0.608	U
1031-07-8	Endosulfan sulfate	ND	0.758	0.361	U
72-43-5	Methoxychlor	ND	3.41	1.06	U
8001-35-2	Toxaphene	ND	34.1	9.54	U
5103-71-9	cis-Chlordane	1810	2.27	0.633	~~E~~ R

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 01:02
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-15	Analyst	: SS
Sample Amount	: 15.64 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 84
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
5103-74-2	trans-Chlordane	2640	2.27	0.600	~~E~~ R
57-74-9	Chlordane	9410	14.8	6.02	~~E~~ R

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07D	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 04:25
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-39	Analyst	: SS
Sample Amount	: 15.64 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 84
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
60-57-1	Dieldrin	988	11.4	5.68	D
5103-71-9	cis-Chlordane	1490	22.7	6.33	D
5103-74-2	trans-Chlordane	1340	22.7	6.00	D

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07D	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 04:25
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-39	Analyst	: SS
Sample Amount	: 15.64 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 10000 uL	%Solids	: 84
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
309-00-2	Aldrin	1200	18.2	6.40	D
57-74-9	Chlordane	12900	148	60.2	D

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 01:15
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-16	Analyst	: SS
Sample Amount	: 15.19 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 72
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	2.19	0.430	U
58-89-9	Lindane	ND	0.914	0.409	U
319-84-6	Alpha-BHC	ND	0.914	0.260	U
319-85-7	Beta-BHC	ND	2.19	0.832	U
76-44-8	Heptachlor	ND	1.10	0.492	U
309-00-2	Aldrin	707	2.19	0.773	~~E~~ R
1024-57-3	Heptachlor epoxide	ND	4.11	1.23	U
72-20-8	Endrin	ND	0.914	0.375	U
53494-70-5	Endrin ketone	ND	2.19	0.565	U
60-57-1	Dieldrin	186	1.37	0.686	~~E~~ R
72-55-9	4,4'-DDE	ND	2.19	0.507	U
72-54-8	4,4'-DDD	ND	2.19	0.783	U
50-29-3	4,4'-DDT	ND	4.11	1.76	U
959-98-8	Endosulfan I	ND	2.19	0.518	U
33213-65-9	Endosulfan II	ND	2.19	0.733	U
1031-07-8	Endosulfan sulfate	ND	0.914	0.435	U
72-43-5	Methoxychlor	ND	4.11	1.28	U
8001-35-2	Toxaphene	ND	41.1	11.5	U
5103-71-9	cis-Chlordane	216	2.74	0.764	~~E~~ R
5103-74-2	trans-Chlordane	164	2.74	0.724	
57-74-9	Chlordane	2240	17.8	7.27	

SDG 4/13/15

Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08D	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 04:38
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-40	Analyst	: SS
Sample Amount	: 15.19 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 72
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
309-00-2	Aldrin	1060	21.9	7.73	D
60-57-1	Dieldrin	271	13.7	6.86	D
5103-71-9	cis-Chlordane	336	27.4	7.64	D

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09	Date Collected	: 02/21/15 00:00
Client ID	: EP-X	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 01:29
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15150224a-17	Analyst	: SS
Sample Amount	: 15.85 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 88
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.72	0.336	U
58-89-9	Lindane	ND	0.716	0.320	U
319-84-6	Alpha-BHC	ND	0.716	0.203	U
319-85-7	Beta-BHC	ND	1.72	0.652	U
76-44-8	Heptachlor	ND	0.859	0.385	U
309-00-2	Aldrin	163	1.72	0.605	~~E~~ R
1024-57-3	Heptachlor epoxide	ND	3.22	0.967	U
72-20-8	Endrin	ND	0.716	0.294	U
53494-70-5	Endrin ketone	ND	1.72	0.442	U
60-57-1	Dieldrin	195	1.07	0.537	~~E~~ R
72-55-9	4,4'-DDE	ND	1.72	0.397	U
72-54-8	4,4'-DDD	ND	1.72	0.613	U
50-29-3	4,4'-DDT	ND	3.22	1.38	U
959-98-8	Endosulfan I	ND	1.72	0.406	U
33213-65-9	Endosulfan II	ND	1.72	0.574	U
1031-07-8	Endosulfan sulfate	ND	0.716	0.341	U
72-43-5	Methoxychlor	ND	3.22	1.00	U
8001-35-2	Toxaphene	ND	32.2	9.02	U
5103-71-9	cis-Chlordane	233	2.15	0.599	~~E~~ R
5103-74-2	trans-Chlordane	204	2.15	0.567	~~E~~ R
57-74-9	Chlordane	2030	14.0	5.69	

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09D	Date Collected	: 02/21/15 00:00
Client ID	: EP-X	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/27/15 04:51
Sample Matrix	: SOIL	Date Extracted	: 02/24/15
Analytical Method	: 1,8081B	Dilution Factor	: 10
Lab File ID	: 15150226b-41	Analyst	: SS
Sample Amount	: 15.85 g	Instrument ID	: PEST15
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 10000 uL	%Solids	: 88
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
309-00-2	Aldrin	264	17.2	6.05	D
60-57-1	Dieldrin	258	10.7	5.37	D
5103-71-9	cis-Chlordane	405	21.5	5.99	D
5103-74-2	trans-Chlordane	312	21.5	5.67	D

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Form 1
GC Organics

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 18:27
Sample Matrix	: WATER	Date Extracted	: 02/25/15
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 11150225a-13	Analyst	: GP
Sample Amount	: 500 ml	Instrument ID	: PEST11
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 5000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/L Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:03
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.294g	%Solids	: 89
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.43	0.03	U
7440-50-8	Copper, Total	11	0.43	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-01	Date Collected	: 02/21/15 12:00
Client ID	: EP-1 (SOUTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 11:53
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.398g	%Solids	: 89
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.12	0.07	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.314g	%Solids	: 85
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	0.09	0.45	0.03	J
7440-50-8	Copper, Total	21	0.45	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-02	Date Collected	: 02/21/15 12:05
Client ID	: EP-2 (WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 11:57
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.381g	%Solids	: 85
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.29	0.08	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:53
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.284g	%Solids	: 85
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.46	0.03	U
7440-50-8	Copper, Total	14	0.46	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-03	Date Collected	: 02/21/15 12:10
Client ID	: EP-3 (NORTHWEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.346g	%Solids	: 85
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.27	0.09	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 11:56
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.344g	%Solids	: 90
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.41	0.03	U
7440-50-8	Copper, Total	10	0.41	0.08	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-04	Date Collected	: 02/21/15 12:17
Client ID	: EP-4 (BOTTOM WEST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:10
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.365g	%Solids	: 90
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.13	0.08	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:00
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.321g	%Solids	: 89
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.42	0.03	U
7440-50-8	Copper, Total	7.8	0.42	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-05	Date Collected	: 02/22/15 08:55
Client ID	: EP-5 (EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:11
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.367g	%Solids	: 89
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.17	0.08	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:04
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.34g	%Solids	: 83
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	0.10	0.45	0.03	J
7440-50-8	Copper, Total	17	0.45	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-06	Date Collected	: 02/22/15 09:10
Client ID	: EP-6 (NORTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:13
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.353g	%Solids	: 83
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.26	0.09	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.272g	%Solids	: 84
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.46	0.03	U
7440-50-8	Copper, Total	12	0.46	0.09	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-07	Date Collected	: 02/22/15 08:45
Client ID	: EP-7 (SOUTHEAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:15
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.395g	%Solids	: 84
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.37	0.08	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 10:29
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.267g	%Solids	: 72
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	0.24	0.55	0.04	J
7440-50-8	Copper, Total	34	0.55	0.11	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-08	Date Collected	: 02/22/15 08:34
Client ID	: EP-8 (BOTTOM EAST)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:17
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.36g	%Solids	: 72
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.18	0.10	0.02	J +

for 4/3/15

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09	Date Collected	: 02/21/15 00:00
Client ID	: EP-X (EP-4 - Bottom West)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/25/15 12:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764661.pdf	Instrument ID	: TRACE6
Sample Amount	: 1.288g	%Solids	: 88
Digestion Method	: EPA 3050B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.44	0.03	U
7440-50-8	Copper, Total	8.2	0.44	0.09	

2/25/15

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-09	Date Collected	: 02/21/15 00:00
Client ID	: EP-X (EP-4-bottom west)	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 12:29
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MC
Lab File ID	: Hg4022415A.pcl	Instrument ID	: FIMS4
Sample Amount	: 0.385g	%Solids	: 88
Digestion Method	: EPA 7471B	Date Digested	: 02/24/15

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.08	0.07	0.02	

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 16:59
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6010C	Analyst	: JH
Lab File ID	: WG764433.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/24/15

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-43-9	Cadmium, Total	ND	0.005	0.001	U
7440-50-8	Copper, Total	ND	0.0100	0.0020	U

Form 1
METALS

Client	: CA RICH CONSULTANTS, INC.	Lab Number	: L1503327
Project Name	: FORMER ZOE CHEMICAL	Project Number	: FORMER ZOE CHEMICAL
Lab ID	: L1503327-11	Date Collected	: 02/22/15 00:00
Client ID	: FIELD BLANK	Date Received	: 02/23/15
Sample Location	: 1801 FALMOUTH AVE	Date Analyzed	: 02/24/15 18:09
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: AB
Lab File ID	: Hg4022415B.pcl	Instrument ID	: FIMS4
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 02/24/15

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U

Appendix B
Chain of Custody
Documents

NEW YORK CHAIN OF CUSTODY

Page 1 of 2

Date Rec'd in Lab: 2/23/15

ALPHA Job #: L1503327

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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

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

Client Information

Client: C. Rich Consultants
Address: 17 Dupont St
Plainview, NY 11803
Phone: 516-576-8841
Fax:
Email: JPROSCIA@CRICHINC.COM

Project Information

Project Name: Former Zoe Chemical
Project Location: 180 Falmouth Ave
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 3/2/15
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	Pesticides 8081	Cadmium SW 6010	Copper SW 6010	Mercury 7471B				Total Bottle	Sample Specific Comments
03327-01	EP-1 (SouthWest)	2/21/15	12	S	JP	X	X	X	X	X					
-02	EP-2 (West)	2/21/15	12:05	S	JP	X	X	X	X	X					
-03	EP-3 (North West)	2/21/15	12:10	S	JP	X	X	X	X	X					
-04	EP-4 (Bottom West)	2/21/15	12:17	S	JP	X	X	X	X	X					
-05	EP-5 (East)	2/22/15	8:55am	S	JP	X	X	X	X	X					
-06	EP-6 (North East)	2/22/15	9:10am	S	JP	X	X	X	X	X					
-07	EP-7 (South East)	2/22/15	8:46am	S	JP	X	X	X	X	X					
-08	EP-8 (Bottom East)	2/22/15	8:34am	S	JP	X	X	X	X	X					
-09	EP-8 MS	2/22/15	8:35am	S	JP	X	X	X	X	X					
-10	EP-8 MSD	2/22/15	8:37am	S	JP	X	X	X	X	X					

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/23/15 11:55A	[signature]	2-23-15 1155
[signature]	2-23-15 1900	[signature]	2-23-15 1900
[signature]	2-23-15 2225	[signature]	2/23/15 22:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 2/23/15

ALPHA Job #: L1508327

Client Information

Client: Same
Address: as
Page 1
Phone:
Fax:
Email:

Project Information

Project Name:
Project Location: Same as Page 1
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 3/2/15
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOC 8260
Pesticides (8081)
SW6010 SW7471B
Cadmium
Copper
Mercury

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	Pesticides (8081)	SW6010 SW7471B Cadmium	SW6010 SW7471B Copper	SW6010 SW7471B Mercury	Sample Specific Comments
033271-11	EP-X	2/21/15	-	S	JP	X	X	X	X	X	
-12	Trip Blank	2/21/15	-	TB	JP	X					
-13	Field Blank	2/22/15		FB		X	X	X	X	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type											
Preservative											

Relinquished By:	Date/Time	Received By:	Date/Time
Eric [illegible]	2/23/15 11:55A	[illegible] A4L	2-23-15 1155
[illegible]	2-23-15 1900	Tom Tobin	2-23-15 1900
Tom Tobin	2-23-15 2225	[illegible]	2/23/15 22:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Sample Delivery Group Form

Laboratory Job number: L1503327

Project Number: FORMER ZOE CHEMICAL
Project Name: FORMER ZOE CHEMICAL
Client Account: CA RICH CONSULTANTS, INC.

Received: 02/23/2015 11:55
Received by: SH

Samples Delivered by: COURIER
Call Tracker #
Bill Of Laden N/A
Trackingnum
Coc Present Present

Container Status Intact
Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt <2,7
Are samples Properly Preserved? Yes
Initial pH
preserved in house with
Final pH
Other Issues
Chlorine Check N/A

Are VOA/VPH Vials Present? Yes
Aqueous: Do Vials Contain Head Space? No
Soils: Is MeOHCovering the Soil? N/A large vials
Reagent H2O Preserved vials Frozen on N/A
Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.5 - IR Gun	No	No

Appendix C
Case Narratives

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for 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 free of charge for 30 days from the date the project is completed. After 30 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.

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

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1503327-01 through -09: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1503327-03, -05, -06, -07, -08, and -09 have elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the samples.

only -01a -02 were analyzed @ low level

Pesticides

L1503327-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene was above the acceptance criteria; however, the sample was not re-analyzed due to obvious interferences.

The WG764467 MS/MSD, performed on L1503327-08, was not analyzed because the dilution required by the matrix of the sample to be utilized for the MS/MSD would have caused the spike compounds to be diluted below the range of calibration.

Total Metals

The WG764381-3/-4 MS/MSD recoveries, performed on L1503327-08, are outside the acceptance criteria for mercury (149%/163%). A post digestion spike was performed and was within acceptance criteria.

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: Michelle M. Morris Report Date: 02/27/15

Title: Technical Director/Representative

for BV 4/3/15

APPENDIX I

Analytical Laboratory Data

ANALYTICAL REPORT

Lab Number:	L1503327
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St. Plainview, NY 11803
ATTN:	Jessica Proscia
Phone:	(516) 576-8844
Project Name:	FORMER ZOE CHEMICAL
Project Number:	FORMER ZOE CHEMICAL
Report Date:	02/27/15

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1503327-01	EP-1 (SOUTHWEST)	SOIL	1801 FALMOUTH AVE	02/21/15 12:00	02/23/15
L1503327-02	EP-2 (WEST)	SOIL	1801 FALMOUTH AVE	02/21/15 12:05	02/23/15
L1503327-03	EP-3 (NORTHWEST)	SOIL	1801 FALMOUTH AVE	02/21/15 12:10	02/23/15
L1503327-04	EP-4 (BOTTOM WEST)	SOIL	1801 FALMOUTH AVE	02/21/15 12:17	02/23/15
L1503327-05	EP-5 (EAST)	SOIL	1801 FALMOUTH AVE	02/22/15 08:55	02/23/15
L1503327-06	EP-6 (NORTHEAST)	SOIL	1801 FALMOUTH AVE	02/22/15 09:10	02/23/15
L1503327-07	EP-7 (SOUTHEAST)	SOIL	1801 FALMOUTH AVE	02/22/15 08:45	02/23/15
L1503327-08	EP-8 (BOTTOM EAST)	SOIL	1801 FALMOUTH AVE	02/22/15 08:34	02/23/15
L1503327-09	EP-X	SOIL	1801 FALMOUTH AVE	02/21/15 00:00	02/23/15
L1503327-10	TRIP BLANK	WATER	1801 FALMOUTH AVE	02/21/15 00:00	02/23/15
L1503327-11	FIELD BLANK	WATER	1801 FALMOUTH AVE	02/22/15 00:00	02/23/15

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1503327-01 through -09: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1503327-03, -05, -06, -07, -08, and -09 have elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the samples.

Pesticides

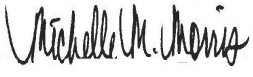
L1503327-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene was above the acceptance criteria; however, the sample was not re-analyzed due to obvious interferences.

The WG764467 MS/MSD, performed on L1503327-08, was not analyzed because the dilution required by the matrix of the sample to be utilized for the MS/MSD would have caused the spike compounds to be diluted below the range of calibration.

Total Metals

The WG764381-3/-4 MS/MSD recoveries, performed on L1503327-08, are outside the acceptance criteria for mercury (149%/163%). A post digestion spike was performed and was within acceptance criteria.

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:  Michelle M. Morris

Title: Technical Director/Representative Date: 02/27/15

ORGANICS

VOLATILES

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01
Client ID: EP-1 (SOUTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 11:20
Analyst: BN
Percent Solids: 89%

Date Collected: 02/21/15 12:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	8.5		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	9.2		ug/kg	2.2	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01 Date Collected: 02/21/15 12:00

Client ID: EP-1 (SOUTHWEST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	66		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	11		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	0.69	J	ug/kg	1.1	0.13	1
sec-Butylbenzene	0.79	J	ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.95	J	ug/kg	1.1	0.14	1
Naphthalene	1.2	J	ug/kg	5.6	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	2.5		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	0.76	J	ug/kg	5.6	0.16	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01 Date Collected: 02/21/15 12:00

Client ID: EP-1 (SOUTHWEST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	11		ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	1.3	J	ug/kg	4.5	0.18	1
p-Ethyltoluene	1.2	J	ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	1.6	J	ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02
Client ID: EP-2 (WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 11:47
Analyst: BN
Percent Solids: 85%

Date Collected: 02/21/15 12:05
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	1.4	J	ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	43		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.17	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	0.90	J	ug/kg	1.8	0.23	1
Ethylbenzene	0.86	J	ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.9	0.34	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	20		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.18	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02 Date Collected: 02/21/15 12:05

Client ID: EP-2 (WEST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	1.3	J	ug/kg	2.4	0.23	1
o-Xylene	1.4	J	ug/kg	2.4	0.20	1
Xylenes, Total	2.7	J	ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	130		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	22		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.9	0.32	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.9	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.9	0.16	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	4.6	J	ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.21	1
1,3,5-Trimethylbenzene	2.0	J	ug/kg	5.9	0.17	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02 Date Collected: 02/21/15 12:05

Client ID: EP-2 (WEST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	3.5	J	ug/kg	5.9	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	0.19	1
p-Ethyltoluene	1.4	J	ug/kg	4.7	0.14	1
1,2,4,5-Tetramethylbenzene	0.99	J	ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03 D
Client ID: EP-3 (NORTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 12:15
Analyst: BN
Percent Solids: 85%

Date Collected: 02/21/15 12:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	23000	2600	2000
1,1-Dichloroethane	ND		ug/kg	3500	200	2000
Chloroform	ND		ug/kg	3500	870	2000
Carbon tetrachloride	ND		ug/kg	2300	490	2000
1,2-Dichloropropane	ND		ug/kg	8200	540	2000
Dibromochloromethane	ND		ug/kg	2300	360	2000
1,1,2-Trichloroethane	ND		ug/kg	3500	710	2000
Tetrachloroethene	ND		ug/kg	2300	330	2000
Chlorobenzene	ND		ug/kg	2300	820	2000
Trichlorofluoromethane	ND		ug/kg	12000	910	2000
1,2-Dichloroethane	ND		ug/kg	2300	270	2000
1,1,1-Trichloroethane	ND		ug/kg	2300	260	2000
Bromodichloromethane	ND		ug/kg	2300	410	2000
trans-1,3-Dichloropropene	ND		ug/kg	2300	280	2000
cis-1,3-Dichloropropene	ND		ug/kg	2300	280	2000
1,3-Dichloropropene, Total	ND		ug/kg	2300	280	2000
1,1-Dichloropropene	ND		ug/kg	12000	330	2000
Bromoform	ND		ug/kg	9400	550	2000
1,1,2,2-Tetrachloroethane	ND		ug/kg	2300	240	2000
Benzene	ND		ug/kg	2300	280	2000
Toluene	ND		ug/kg	3500	460	2000
Ethylbenzene	1400	J	ug/kg	2300	300	2000
Chloromethane	ND		ug/kg	12000	690	2000
Bromomethane	ND		ug/kg	4700	790	2000
Vinyl chloride	ND		ug/kg	4700	280	2000
Chloroethane	ND		ug/kg	4700	740	2000
1,1-Dichloroethene	ND		ug/kg	2300	620	2000
trans-1,2-Dichloroethene	ND		ug/kg	3500	500	2000
Trichloroethene	ND		ug/kg	2300	290	2000
1,2-Dichlorobenzene	ND		ug/kg	12000	360	2000

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03 D Date Collected: 02/21/15 12:10

Client ID: EP-3 (NORTHWEST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	12000	320	2000
1,4-Dichlorobenzene	ND		ug/kg	12000	320	2000
Methyl tert butyl ether	ND		ug/kg	4700	200	2000
p/m-Xylene	2600	J	ug/kg	4700	460	2000
o-Xylene	ND		ug/kg	4700	400	2000
Xylenes, Total	2600	J	ug/kg	4700	400	2000
cis-1,2-Dichloroethene	ND		ug/kg	2300	340	2000
1,2-Dichloroethene, Total	ND		ug/kg	2300	340	2000
Dibromomethane	ND		ug/kg	23000	380	2000
Styrene	ND		ug/kg	4700	940	2000
Dichlorodifluoromethane	ND		ug/kg	23000	450	2000
Acetone	7300	J	ug/kg	23000	2400	2000
Carbon disulfide	ND		ug/kg	23000	2600	2000
2-Butanone	2000	J	ug/kg	23000	640	2000
Vinyl acetate	ND		ug/kg	23000	310	2000
4-Methyl-2-pentanone	ND		ug/kg	23000	570	2000
1,2,3-Trichloropropane	ND		ug/kg	23000	380	2000
2-Hexanone	ND		ug/kg	23000	1600	2000
Bromochloromethane	ND		ug/kg	12000	650	2000
2,2-Dichloropropane	ND		ug/kg	12000	530	2000
1,2-Dibromoethane	ND		ug/kg	9400	410	2000
1,3-Dichloropropane	ND		ug/kg	12000	340	2000
1,1,1,2-Tetrachloroethane	ND		ug/kg	2300	750	2000
Bromobenzene	ND		ug/kg	12000	490	2000
n-Butylbenzene	ND		ug/kg	2300	270	2000
sec-Butylbenzene	ND		ug/kg	2300	290	2000
tert-Butylbenzene	ND		ug/kg	12000	320	2000
o-Chlorotoluene	ND		ug/kg	12000	380	2000
p-Chlorotoluene	ND		ug/kg	12000	310	2000
1,2-Dibromo-3-chloropropane	ND		ug/kg	12000	930	2000
Hexachlorobutadiene	ND		ug/kg	12000	540	2000
Isopropylbenzene	ND		ug/kg	2300	240	2000
p-Isopropyltoluene	4100		ug/kg	2300	290	2000
Naphthalene	2300	J	ug/kg	12000	320	2000
Acrylonitrile	ND		ug/kg	23000	1200	2000
n-Propylbenzene	1800	J	ug/kg	2300	260	2000
1,2,3-Trichlorobenzene	ND		ug/kg	12000	350	2000
1,2,4-Trichlorobenzene	ND		ug/kg	12000	430	2000
1,3,5-Trimethylbenzene	3300	J	ug/kg	12000	340	2000

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03 D
Client ID: EP-3 (NORTHWEST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/21/15 12:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	9300	J	ug/kg	12000	330	2000
1,4-Dioxane	ND		ug/kg	230000	34000	2000
p-Diethylbenzene	2300	J	ug/kg	9400	380	2000
p-Ethyltoluene	6800	J	ug/kg	9400	290	2000
1,2,4,5-Tetramethylbenzene	740	J	ug/kg	9400	300	2000
Ethyl ether	ND		ug/kg	12000	610	2000
trans-1,4-Dichloro-2-butene	ND		ug/kg	12000	920	2000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04 D
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 12:42
Analyst: BN
Percent Solids: 90%

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	75	J	ug/kg	550	61.	50
1,1-Dichloroethane	180		ug/kg	83	4.7	50
Chloroform	ND		ug/kg	83	20.	50
Carbon tetrachloride	ND		ug/kg	55	12.	50
1,2-Dichloropropane	ND		ug/kg	190	13.	50
Dibromochloromethane	ND		ug/kg	55	8.5	50
1,1,2-Trichloroethane	ND		ug/kg	83	17.	50
Tetrachloroethene	130		ug/kg	55	7.8	50
Chlorobenzene	ND		ug/kg	55	19.	50
Trichlorofluoromethane	ND		ug/kg	280	21.	50
1,2-Dichloroethane	ND		ug/kg	55	6.3	50
1,1,1-Trichloroethane	820		ug/kg	55	6.1	50
Bromodichloromethane	ND		ug/kg	55	9.6	50
trans-1,3-Dichloropropene	ND		ug/kg	55	6.7	50
cis-1,3-Dichloropropene	ND		ug/kg	55	6.5	50
1,3-Dichloropropene, Total	ND		ug/kg	55	6.5	50
1,1-Dichloropropene	ND		ug/kg	280	7.8	50
Bromoform	ND		ug/kg	220	13.	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	5.6	50
Benzene	ND		ug/kg	55	6.5	50
Toluene	430		ug/kg	83	11.	50
Ethylbenzene	510		ug/kg	55	7.0	50
Chloromethane	ND		ug/kg	280	16.	50
Bromomethane	ND		ug/kg	110	19.	50
Vinyl chloride	ND		ug/kg	110	6.5	50
Chloroethane	81	J	ug/kg	110	17.	50
1,1-Dichloroethene	ND		ug/kg	55	14.	50
trans-1,2-Dichloroethene	ND		ug/kg	83	12.	50
Trichloroethene	150		ug/kg	55	6.9	50
1,2-Dichlorobenzene	ND		ug/kg	280	8.5	50

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04 D
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	280	7.5	50
1,4-Dichlorobenzene	ND		ug/kg	280	7.7	50
Methyl tert butyl ether	ND		ug/kg	110	4.7	50
p/m-Xylene	1100		ug/kg	110	11.	50
o-Xylene	430		ug/kg	110	9.5	50
Xylenes, Total	1500		ug/kg	110	9.5	50
cis-1,2-Dichloroethene	ND		ug/kg	55	7.9	50
1,2-Dichloroethene, Total	ND		ug/kg	55	7.9	50
Dibromomethane	ND		ug/kg	550	9.0	50
Styrene	ND		ug/kg	110	22.	50
Dichlorodifluoromethane	ND		ug/kg	550	10.	50
Acetone	340	J	ug/kg	550	57.	50
Carbon disulfide	ND		ug/kg	550	61.	50
2-Butanone	170	J	ug/kg	550	15.	50
Vinyl acetate	ND		ug/kg	550	7.3	50
4-Methyl-2-pentanone	ND		ug/kg	550	14.	50
1,2,3-Trichloropropane	ND		ug/kg	550	9.0	50
2-Hexanone	ND		ug/kg	550	37.	50
Bromochloromethane	ND		ug/kg	280	15.	50
2,2-Dichloropropane	ND		ug/kg	280	12.	50
1,2-Dibromoethane	ND		ug/kg	220	9.6	50
1,3-Dichloropropane	ND		ug/kg	280	8.0	50
1,1,1,2-Tetrachloroethane	ND		ug/kg	55	18.	50
Bromobenzene	ND		ug/kg	280	12.	50
n-Butylbenzene	180		ug/kg	55	6.4	50
sec-Butylbenzene	160		ug/kg	55	6.8	50
tert-Butylbenzene	ND		ug/kg	280	7.5	50
o-Chlorotoluene	ND		ug/kg	280	8.8	50
p-Chlorotoluene	ND		ug/kg	280	7.4	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	22.	50
Hexachlorobutadiene	ND		ug/kg	280	13.	50
Isopropylbenzene	200		ug/kg	55	5.7	50
p-Isopropyltoluene	3200		ug/kg	55	6.9	50
Naphthalene	270	J	ug/kg	280	7.7	50
Acrylonitrile	ND		ug/kg	550	28.	50
n-Propylbenzene	660		ug/kg	55	6.0	50
1,2,3-Trichlorobenzene	ND		ug/kg	280	8.2	50
1,2,4-Trichlorobenzene	ND		ug/kg	280	10.	50
1,3,5-Trimethylbenzene	1100		ug/kg	280	7.9	50

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04 D
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	3200		ug/kg	280	7.8	50
1,4-Dioxane	ND		ug/kg	5500	800	50
p-Diethylbenzene	1000		ug/kg	220	8.8	50
p-Ethyltoluene	2200		ug/kg	220	6.9	50
1,2,4,5-Tetramethylbenzene	360		ug/kg	220	7.2	50
Ethyl ether	16	J	ug/kg	280	14.	50
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	22.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-05 D
Client ID: EP-5 (EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 13:10
Analyst: BN
Percent Solids: 89%

Date Collected: 02/22/15 08:55
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	2800	310	250
1,1-Dichloroethane	ND		ug/kg	420	24.	250
Chloroform	ND		ug/kg	420	100	250
Carbon tetrachloride	ND		ug/kg	280	59.	250
1,2-Dichloropropane	ND		ug/kg	980	64.	250
Dibromochloromethane	ND		ug/kg	280	43.	250
1,1,2-Trichloroethane	ND		ug/kg	420	85.	250
Tetrachloroethene	ND		ug/kg	280	39.	250
Chlorobenzene	ND		ug/kg	280	97.	250
Trichlorofluoromethane	ND		ug/kg	1400	110	250
1,2-Dichloroethane	ND		ug/kg	280	32.	250
1,1,1-Trichloroethane	ND		ug/kg	280	31.	250
Bromodichloromethane	ND		ug/kg	280	48.	250
trans-1,3-Dichloropropene	ND		ug/kg	280	34.	250
cis-1,3-Dichloropropene	ND		ug/kg	280	33.	250
1,3-Dichloropropene, Total	ND		ug/kg	280	33.	250
1,1-Dichloropropene	ND		ug/kg	1400	40.	250
Bromoform	ND		ug/kg	1100	66.	250
1,1,2,2-Tetrachloroethane	ND		ug/kg	280	28.	250
Benzene	ND		ug/kg	280	33.	250
Toluene	ND		ug/kg	420	54.	250
Ethylbenzene	1100		ug/kg	280	36.	250
Chloromethane	ND		ug/kg	1400	82.	250
Bromomethane	ND		ug/kg	560	95.	250
Vinyl chloride	ND		ug/kg	560	33.	250
Chloroethane	ND		ug/kg	560	88.	250
1,1-Dichloroethene	ND		ug/kg	280	73.	250
trans-1,2-Dichloroethene	ND		ug/kg	420	59.	250
Trichloroethene	ND		ug/kg	280	35.	250
1,2-Dichlorobenzene	ND		ug/kg	1400	43.	250

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-05 D Date Collected: 02/22/15 08:55

Client ID: EP-5 (EAST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1400	38.	250
1,4-Dichlorobenzene	ND		ug/kg	1400	39.	250
Methyl tert butyl ether	ND		ug/kg	560	24.	250
p/m-Xylene	480	J	ug/kg	560	55.	250
o-Xylene	ND		ug/kg	560	48.	250
Xylenes, Total	480	J	ug/kg	560	48.	250
cis-1,2-Dichloroethene	ND		ug/kg	280	40.	250
1,2-Dichloroethene, Total	ND		ug/kg	280	40.	250
Dibromomethane	ND		ug/kg	2800	46.	250
Styrene	ND		ug/kg	560	110	250
Dichlorodifluoromethane	ND		ug/kg	2800	53.	250
Acetone	1100	J	ug/kg	2800	290	250
Carbon disulfide	ND		ug/kg	2800	310	250
2-Butanone	480	J	ug/kg	2800	76.	250
Vinyl acetate	ND		ug/kg	2800	37.	250
4-Methyl-2-pentanone	ND		ug/kg	2800	68.	250
1,2,3-Trichloropropane	ND		ug/kg	2800	46.	250
2-Hexanone	ND		ug/kg	2800	190	250
Bromochloromethane	ND		ug/kg	1400	77.	250
2,2-Dichloropropane	ND		ug/kg	1400	63.	250
1,2-Dibromoethane	ND		ug/kg	1100	49.	250
1,3-Dichloropropane	ND		ug/kg	1400	41.	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	280	89.	250
Bromobenzene	ND		ug/kg	1400	58.	250
n-Butylbenzene	450		ug/kg	280	32.	250
sec-Butylbenzene	360		ug/kg	280	34.	250
tert-Butylbenzene	ND		ug/kg	1400	38.	250
o-Chlorotoluene	ND		ug/kg	1400	45.	250
p-Chlorotoluene	ND		ug/kg	1400	37.	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	1400	110	250
Hexachlorobutadiene	ND		ug/kg	1400	64.	250
Isopropylbenzene	460		ug/kg	280	29.	250
p-Isopropyltoluene	490		ug/kg	280	35.	250
Naphthalene	420	J	ug/kg	1400	39.	250
Acrylonitrile	ND		ug/kg	2800	140	250
n-Propylbenzene	1500		ug/kg	280	30.	250
1,2,3-Trichlorobenzene	ND		ug/kg	1400	41.	250
1,2,4-Trichlorobenzene	ND		ug/kg	1400	51.	250
1,3,5-Trimethylbenzene	380	J	ug/kg	1400	40.	250

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-05 D
Client ID: EP-5 (EAST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/22/15 08:55
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	520	J	ug/kg	1400	40.	250
1,4-Dioxane	ND		ug/kg	28000	4000	250
p-Diethylbenzene	640	J	ug/kg	1100	45.	250
p-Ethyltoluene	1300		ug/kg	1100	35.	250
1,2,4,5-Tetramethylbenzene	800	J	ug/kg	1100	36.	250
Ethyl ether	ND		ug/kg	1400	73.	250
trans-1,4-Dichloro-2-butene	ND		ug/kg	1400	110	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06 D
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 13:37
Analyst: BN
Percent Solids: 83%

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	600	66.	50
1,1-Dichloroethane	ND		ug/kg	90	5.1	50
Chloroform	ND		ug/kg	90	22.	50
Carbon tetrachloride	ND		ug/kg	60	12.	50
1,2-Dichloropropane	ND		ug/kg	210	14.	50
Dibromochloromethane	ND		ug/kg	60	9.2	50
1,1,2-Trichloroethane	ND		ug/kg	90	18.	50
Tetrachloroethene	ND		ug/kg	60	8.4	50
Chlorobenzene	ND		ug/kg	60	21.	50
Trichlorofluoromethane	ND		ug/kg	300	23.	50
1,2-Dichloroethane	ND		ug/kg	60	6.8	50
1,1,1-Trichloroethane	ND		ug/kg	60	6.6	50
Bromodichloromethane	ND		ug/kg	60	10.	50
trans-1,3-Dichloropropene	ND		ug/kg	60	7.2	50
cis-1,3-Dichloropropene	ND		ug/kg	60	7.0	50
1,3-Dichloropropene, Total	ND		ug/kg	60	7.0	50
1,1-Dichloropropene	ND		ug/kg	300	8.5	50
Bromoform	ND		ug/kg	240	14.	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	60	6.0	50
Benzene	ND		ug/kg	60	7.1	50
Toluene	ND		ug/kg	90	12.	50
Ethylbenzene	ND		ug/kg	60	7.6	50
Chloromethane	ND		ug/kg	300	18.	50
Bromomethane	ND		ug/kg	120	20.	50
Vinyl chloride	ND		ug/kg	120	7.0	50
Chloroethane	ND		ug/kg	120	19.	50
1,1-Dichloroethene	ND		ug/kg	60	16.	50
trans-1,2-Dichloroethene	ND		ug/kg	90	13.	50
Trichloroethene	ND		ug/kg	60	7.5	50
1,2-Dichlorobenzene	ND		ug/kg	300	9.2	50

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06 D
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	300	8.1	50
1,4-Dichlorobenzene	ND		ug/kg	300	8.3	50
Methyl tert butyl ether	ND		ug/kg	120	5.0	50
p/m-Xylene	ND		ug/kg	120	12.	50
o-Xylene	ND		ug/kg	120	10.	50
Xylenes, Total	ND		ug/kg	120	10.	50
cis-1,2-Dichloroethene	ND		ug/kg	60	8.6	50
1,2-Dichloroethene, Total	ND		ug/kg	60	8.6	50
Dibromomethane	ND		ug/kg	600	9.8	50
Styrene	ND		ug/kg	120	24.	50
Dichlorodifluoromethane	ND		ug/kg	600	11.	50
Acetone	320	J	ug/kg	600	62.	50
Carbon disulfide	ND		ug/kg	600	66.	50
2-Butanone	160	J	ug/kg	600	16.	50
Vinyl acetate	ND		ug/kg	600	7.9	50
4-Methyl-2-pentanone	ND		ug/kg	600	15.	50
1,2,3-Trichloropropane	ND		ug/kg	600	9.7	50
2-Hexanone	ND		ug/kg	600	40.	50
Bromochloromethane	ND		ug/kg	300	16.	50
2,2-Dichloropropane	ND		ug/kg	300	14.	50
1,2-Dibromoethane	ND		ug/kg	240	10.	50
1,3-Dichloropropane	ND		ug/kg	300	8.7	50
1,1,1,2-Tetrachloroethane	ND		ug/kg	60	19.	50
Bromobenzene	ND		ug/kg	300	12.	50
n-Butylbenzene	ND		ug/kg	60	6.9	50
sec-Butylbenzene	ND		ug/kg	60	7.3	50
tert-Butylbenzene	ND		ug/kg	300	8.1	50
o-Chlorotoluene	ND		ug/kg	300	9.6	50
p-Chlorotoluene	ND		ug/kg	300	8.0	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	300	24.	50
Hexachlorobutadiene	ND		ug/kg	300	14.	50
Isopropylbenzene	ND		ug/kg	60	6.2	50
p-Isopropyltoluene	ND		ug/kg	60	7.5	50
Naphthalene	ND		ug/kg	300	8.3	50
Acrylonitrile	ND		ug/kg	600	31.	50
n-Propylbenzene	ND		ug/kg	60	6.5	50
1,2,3-Trichlorobenzene	ND		ug/kg	300	8.8	50
1,2,4-Trichlorobenzene	ND		ug/kg	300	11.	50
1,3,5-Trimethylbenzene	ND		ug/kg	300	8.6	50

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06 D
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	300	8.5	50
1,4-Dioxane	ND		ug/kg	6000	860	50
p-Diethylbenzene	20	J	ug/kg	240	9.6	50
p-Ethyltoluene	ND		ug/kg	240	7.4	50
1,2,4,5-Tetramethylbenzene	22	J	ug/kg	240	7.8	50
Ethyl ether	ND		ug/kg	300	16.	50
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	24.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-07 D
Client ID: EP-7 (SOUTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 14:04
Analyst: BN
Percent Solids: 84%

Date Collected: 02/22/15 08:45
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5900	650	500
1,1-Dichloroethane	ND		ug/kg	890	51.	500
Chloroform	ND		ug/kg	890	220	500
Carbon tetrachloride	ND		ug/kg	590	120	500
1,2-Dichloropropane	ND		ug/kg	2100	140	500
Dibromochloromethane	ND		ug/kg	590	91.	500
1,1,2-Trichloroethane	ND		ug/kg	890	180	500
Tetrachloroethene	ND		ug/kg	590	83.	500
Chlorobenzene	ND		ug/kg	590	210	500
Trichlorofluoromethane	ND		ug/kg	3000	230	500
1,2-Dichloroethane	ND		ug/kg	590	67.	500
1,1,1-Trichloroethane	440	J	ug/kg	590	66.	500
Bromodichloromethane	ND		ug/kg	590	100	500
trans-1,3-Dichloropropene	ND		ug/kg	590	72.	500
cis-1,3-Dichloropropene	ND		ug/kg	590	70.	500
1,3-Dichloropropene, Total	ND		ug/kg	590	70.	500
1,1-Dichloropropene	ND		ug/kg	3000	84.	500
Bromoform	ND		ug/kg	2400	140	500
1,1,2,2-Tetrachloroethane	ND		ug/kg	590	60.	500
Benzene	ND		ug/kg	590	70.	500
Toluene	970		ug/kg	890	120	500
Ethylbenzene	4200		ug/kg	590	75.	500
Chloromethane	ND		ug/kg	3000	170	500
Bromomethane	ND		ug/kg	1200	200	500
Vinyl chloride	ND		ug/kg	1200	70.	500
Chloroethane	420	J	ug/kg	1200	190	500
1,1-Dichloroethene	ND		ug/kg	590	160	500
trans-1,2-Dichloroethene	ND		ug/kg	890	120	500
Trichloroethene	ND		ug/kg	590	74.	500
1,2-Dichlorobenzene	ND		ug/kg	3000	91.	500

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-07 D Date Collected: 02/22/15 08:45

Client ID: EP-7 (SOUTHEAST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3000	80.	500
1,4-Dichlorobenzene	ND		ug/kg	3000	82.	500
Methyl tert butyl ether	ND		ug/kg	1200	50.	500
p/m-Xylene	4600		ug/kg	1200	120	500
o-Xylene	1100	J	ug/kg	1200	100	500
Xylenes, Total	5700	J	ug/kg	1200	100	500
cis-1,2-Dichloroethene	ND		ug/kg	590	84.	500
1,2-Dichloroethene, Total	ND		ug/kg	590	84.	500
Dibromomethane	ND		ug/kg	5900	97.	500
Styrene	ND		ug/kg	1200	240	500
Dichlorodifluoromethane	ND		ug/kg	5900	110	500
Acetone	1800	J	ug/kg	5900	610	500
Carbon disulfide	ND		ug/kg	5900	650	500
2-Butanone	510	J	ug/kg	5900	160	500
Vinyl acetate	ND		ug/kg	5900	78.	500
4-Methyl-2-pentanone	ND		ug/kg	5900	140	500
1,2,3-Trichloropropane	ND		ug/kg	5900	96.	500
2-Hexanone	ND		ug/kg	5900	390	500
Bromochloromethane	ND		ug/kg	3000	160	500
2,2-Dichloropropane	ND		ug/kg	3000	130	500
1,2-Dibromoethane	ND		ug/kg	2400	100	500
1,3-Dichloropropane	ND		ug/kg	3000	86.	500
1,1,1,2-Tetrachloroethane	ND		ug/kg	590	190	500
Bromobenzene	ND		ug/kg	3000	120	500
n-Butylbenzene	870		ug/kg	590	68.	500
sec-Butylbenzene	760		ug/kg	590	72.	500
tert-Butylbenzene	ND		ug/kg	3000	80.	500
o-Chlorotoluene	ND		ug/kg	3000	95.	500
p-Chlorotoluene	ND		ug/kg	3000	79.	500
1,2-Dibromo-3-chloropropane	ND		ug/kg	3000	230	500
Hexachlorobutadiene	ND		ug/kg	3000	140	500
Isopropylbenzene	1200		ug/kg	590	61.	500
p-Isopropyltoluene	8400		ug/kg	590	74.	500
Naphthalene	1800	J	ug/kg	3000	82.	500
Acrylonitrile	ND		ug/kg	5900	300	500
n-Propylbenzene	3500		ug/kg	590	65.	500
1,2,3-Trichlorobenzene	ND		ug/kg	3000	87.	500
1,2,4-Trichlorobenzene	ND		ug/kg	3000	110	500
1,3,5-Trimethylbenzene	3700		ug/kg	3000	85.	500

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-07 D
Client ID: EP-7 (SOUTHEAST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/22/15 08:45
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	11000		ug/kg	3000	84.	500
1,4-Dioxane	ND		ug/kg	59000	8500	500
p-Diethylbenzene	3300		ug/kg	2400	95.	500
p-Ethyltoluene	6800		ug/kg	2400	73.	500
1,2,4,5-Tetramethylbenzene	2000	J	ug/kg	2400	77.	500
Ethyl ether	ND		ug/kg	3000	150	500
trans-1,4-Dichloro-2-butene	ND		ug/kg	3000	230	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-08 D
Client ID: EP-8 (BOTTOM EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 14:31
Analyst: BN
Percent Solids: 72%

Date Collected: 02/22/15 08:34
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	3500	380	250
1,1-Dichloroethane	ND		ug/kg	520	30.	250
Chloroform	ND		ug/kg	520	130	250
Carbon tetrachloride	ND		ug/kg	350	73.	250
1,2-Dichloropropane	ND		ug/kg	1200	79.	250
Dibromochloromethane	ND		ug/kg	350	53.	250
1,1,2-Trichloroethane	ND		ug/kg	520	100	250
Tetrachloroethene	ND		ug/kg	350	49.	250
Chlorobenzene	ND		ug/kg	350	120	250
Trichlorofluoromethane	ND		ug/kg	1700	130	250
1,2-Dichloroethane	ND		ug/kg	350	39.	250
1,1,1-Trichloroethane	ND		ug/kg	350	38.	250
Bromodichloromethane	ND		ug/kg	350	60.	250
trans-1,3-Dichloropropene	ND		ug/kg	350	42.	250
cis-1,3-Dichloropropene	ND		ug/kg	350	41.	250
1,3-Dichloropropene, Total	ND		ug/kg	350	41.	250
1,1-Dichloropropene	ND		ug/kg	1700	49.	250
Bromoform	ND		ug/kg	1400	82.	250
1,1,2,2-Tetrachloroethane	ND		ug/kg	350	35.	250
Benzene	ND		ug/kg	350	41.	250
Toluene	ND		ug/kg	520	68.	250
Ethylbenzene	ND		ug/kg	350	44.	250
Chloromethane	ND		ug/kg	1700	100	250
Bromomethane	ND		ug/kg	690	120	250
Vinyl chloride	ND		ug/kg	690	41.	250
Chloroethane	500	J	ug/kg	690	110	250
1,1-Dichloroethene	ND		ug/kg	350	91.	250
trans-1,2-Dichloroethene	ND		ug/kg	520	74.	250
Trichloroethene	ND		ug/kg	350	43.	250
1,2-Dichlorobenzene	ND		ug/kg	1700	53.	250

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-08 D Date Collected: 02/22/15 08:34

Client ID: EP-8 (BOTTOM EAST) Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1700	47.	250
1,4-Dichlorobenzene	ND		ug/kg	1700	48.	250
Methyl tert butyl ether	ND		ug/kg	690	29.	250
p/m-Xylene	220	J	ug/kg	690	69.	250
o-Xylene	ND		ug/kg	690	60.	250
Xylenes, Total	220	J	ug/kg	690	60.	250
cis-1,2-Dichloroethene	ND		ug/kg	350	50.	250
1,2-Dichloroethene, Total	ND		ug/kg	350	50.	250
Dibromomethane	ND		ug/kg	3500	57.	250
Styrene	ND		ug/kg	690	140	250
Dichlorodifluoromethane	ND		ug/kg	3500	66.	250
Acetone	1300	J	ug/kg	3500	360	250
Carbon disulfide	ND		ug/kg	3500	380	250
2-Butanone	460	J	ug/kg	3500	94.	250
Vinyl acetate	ND		ug/kg	3500	46.	250
4-Methyl-2-pentanone	ND		ug/kg	3500	85.	250
1,2,3-Trichloropropane	ND		ug/kg	3500	56.	250
2-Hexanone	ND		ug/kg	3500	230	250
Bromochloromethane	ND		ug/kg	1700	96.	250
2,2-Dichloropropane	ND		ug/kg	1700	78.	250
1,2-Dibromoethane	ND		ug/kg	1400	60.	250
1,3-Dichloropropane	ND		ug/kg	1700	50.	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	350	110	250
Bromobenzene	ND		ug/kg	1700	72.	250
n-Butylbenzene	ND		ug/kg	350	40.	250
sec-Butylbenzene	ND		ug/kg	350	42.	250
tert-Butylbenzene	ND		ug/kg	1700	47.	250
o-Chlorotoluene	ND		ug/kg	1700	55.	250
p-Chlorotoluene	ND		ug/kg	1700	46.	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	1700	140	250
Hexachlorobutadiene	ND		ug/kg	1700	79.	250
Isopropylbenzene	ND		ug/kg	350	36.	250
p-Isopropyltoluene	ND		ug/kg	350	43.	250
Naphthalene	ND		ug/kg	1700	48.	250
Acrylonitrile	ND		ug/kg	3500	180	250
n-Propylbenzene	210	J	ug/kg	350	38.	250
1,2,3-Trichlorobenzene	ND		ug/kg	1700	51.	250
1,2,4-Trichlorobenzene	ND		ug/kg	1700	63.	250
1,3,5-Trimethylbenzene	ND		ug/kg	1700	50.	250

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-08 D
Client ID: EP-8 (BOTTOM EAST)
Sample Location: 1801 FALMOUTH AVE

Date Collected: 02/22/15 08:34
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	1700	49.	250
1,4-Dioxane	ND		ug/kg	35000	5000	250
p-Diethylbenzene	ND		ug/kg	1400	55.	250
p-Ethyltoluene	ND		ug/kg	1400	43.	250
1,2,4,5-Tetramethylbenzene	93	J	ug/kg	1400	45.	250
Ethyl ether	ND		ug/kg	1700	90.	250
trans-1,4-Dichloro-2-butene	ND		ug/kg	1700	140	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09 D
Client ID: EP-X
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/25/15 15:52
Analyst: BN
Percent Solids: 88%

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	28000	3100	2500
1,1-Dichloroethane	ND		ug/kg	4200	240	2500
Chloroform	ND		ug/kg	4200	1000	2500
Carbon tetrachloride	ND		ug/kg	2800	600	2500
1,2-Dichloropropane	ND		ug/kg	9900	650	2500
Dibromochloromethane	ND		ug/kg	2800	440	2500
1,1,2-Trichloroethane	ND		ug/kg	4200	860	2500
Tetrachloroethene	ND		ug/kg	2800	400	2500
Chlorobenzene	ND		ug/kg	2800	990	2500
Trichlorofluoromethane	ND		ug/kg	14000	1100	2500
1,2-Dichloroethane	ND		ug/kg	2800	320	2500
1,1,1-Trichloroethane	ND		ug/kg	2800	310	2500
Bromodichloromethane	ND		ug/kg	2800	490	2500
trans-1,3-Dichloropropene	ND		ug/kg	2800	340	2500
cis-1,3-Dichloropropene	ND		ug/kg	2800	330	2500
1,3-Dichloropropene, Total	ND		ug/kg	2800	330	2500
1,1-Dichloropropene	ND		ug/kg	14000	400	2500
Bromoform	ND		ug/kg	11000	670	2500
1,1,2,2-Tetrachloroethane	ND		ug/kg	2800	290	2500
Benzene	ND		ug/kg	2800	330	2500
Toluene	ND		ug/kg	4200	550	2500
Ethylbenzene	ND		ug/kg	2800	360	2500
Chloromethane	ND		ug/kg	14000	830	2500
Bromomethane	ND		ug/kg	5700	960	2500
Vinyl chloride	ND		ug/kg	5700	330	2500
Chloroethane	ND		ug/kg	5700	900	2500
1,1-Dichloroethene	ND		ug/kg	2800	740	2500
trans-1,2-Dichloroethene	ND		ug/kg	4200	600	2500
Trichloroethene	ND		ug/kg	2800	350	2500
1,2-Dichlorobenzene	ND		ug/kg	14000	430	2500

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09 D Date Collected: 02/21/15 00:00

Client ID: EP-X Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	14000	380	2500
1,4-Dichlorobenzene	ND		ug/kg	14000	390	2500
Methyl tert butyl ether	ND		ug/kg	5700	240	2500
p/m-Xylene	ND		ug/kg	5700	560	2500
o-Xylene	ND		ug/kg	5700	490	2500
Xylenes, Total	ND		ug/kg	5700	490	2500
cis-1,2-Dichloroethene	ND		ug/kg	2800	400	2500
1,2-Dichloroethene, Total	ND		ug/kg	2800	400	2500
Dibromomethane	ND		ug/kg	28000	460	2500
Styrene	ND		ug/kg	5700	1100	2500
Dichlorodifluoromethane	ND		ug/kg	28000	540	2500
Acetone	9600	J	ug/kg	28000	2900	2500
Carbon disulfide	ND		ug/kg	28000	3100	2500
2-Butanone	ND		ug/kg	28000	770	2500
Vinyl acetate	ND		ug/kg	28000	380	2500
4-Methyl-2-pentanone	ND		ug/kg	28000	690	2500
1,2,3-Trichloropropane	ND		ug/kg	28000	460	2500
2-Hexanone	ND		ug/kg	28000	1900	2500
Bromochloromethane	ND		ug/kg	14000	780	2500
2,2-Dichloropropane	ND		ug/kg	14000	640	2500
1,2-Dibromoethane	ND		ug/kg	11000	490	2500
1,3-Dichloropropane	ND		ug/kg	14000	410	2500
1,1,1,2-Tetrachloroethane	ND		ug/kg	2800	900	2500
Bromobenzene	ND		ug/kg	14000	590	2500
n-Butylbenzene	ND		ug/kg	2800	320	2500
sec-Butylbenzene	ND		ug/kg	2800	350	2500
tert-Butylbenzene	ND		ug/kg	14000	380	2500
o-Chlorotoluene	ND		ug/kg	14000	450	2500
p-Chlorotoluene	ND		ug/kg	14000	380	2500
1,2-Dibromo-3-chloropropane	ND		ug/kg	14000	1100	2500
Hexachlorobutadiene	ND		ug/kg	14000	650	2500
Isopropylbenzene	ND		ug/kg	2800	290	2500
p-Isopropyltoluene	ND		ug/kg	2800	350	2500
Naphthalene	ND		ug/kg	14000	390	2500
Acrylonitrile	ND		ug/kg	28000	1400	2500
n-Propylbenzene	2600	J	ug/kg	2800	310	2500
1,2,3-Trichlorobenzene	ND		ug/kg	14000	420	2500
1,2,4-Trichlorobenzene	ND		ug/kg	14000	520	2500
1,3,5-Trimethylbenzene	ND		ug/kg	14000	410	2500

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09 D Date Collected: 02/21/15 00:00

Client ID: EP-X Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	14000	400	2500
1,4-Dioxane	ND		ug/kg	280000	41000	2500
p-Diethylbenzene	630	J	ug/kg	11000	450	2500
p-Ethyltoluene	ND		ug/kg	11000	350	2500
1,2,4,5-Tetramethylbenzene	1400	J	ug/kg	11000	370	2500
Ethyl ether	ND		ug/kg	14000	740	2500
trans-1,4-Dichloro-2-butene	ND		ug/kg	14000	1100	2500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-10
Client ID: TRIP BLANK
Sample Location: 1801 FALMOUTH AVE
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/24/15 17:00
Analyst: PD

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-10 Date Collected: 02/21/15 00:00

Client ID: TRIP BLANK Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-10 Date Collected: 02/21/15 00:00

Client ID: TRIP BLANK Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-11
Client ID: FIELD BLANK
Sample Location: 1801 FALMOUTH AVE
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/24/15 17:28
Analyst: PD

Date Collected: 02/22/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-11 Date Collected: 02/22/15 00:00

Client ID: FIELD BLANK Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-11 Date Collected: 02/22/15 00:00

Client ID: FIELD BLANK Date Received: 02/23/15

Sample Location: 1801 FALMOUTH AVE Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/24/15 09:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG764591-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMIC **Report Date:** 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/24/15 09:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG764591-3					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/24/15 09:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG764591-3					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds		
No Tentatively Identified Compounds	ND	ug/l

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/24/15 09:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG764591-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/25/15 09:30
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG764972-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/25/15 09:30
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG764972-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	0.66	J	ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	0.66	J	ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMIC **Report Date:** 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/25/15 09:30
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG764972-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Diisopropyl Ether	ND		ug/kg	4.0	0.14
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: FORMER ZOE CHEMICAL
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG764972-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG764591-1 WG764591-2								
Methylene chloride	80		74		70-130	8		20
1,1-Dichloroethane	89		80		70-130	11		20
Chloroform	95		87		70-130	9		20
Carbon tetrachloride	80		73		63-132	9		20
1,2-Dichloropropane	96		86		70-130	11		20
Dibromochloromethane	97		84		63-130	14		20
1,1,2-Trichloroethane	106		91		70-130	15		20
Tetrachloroethene	86		80		70-130	7		20
Chlorobenzene	100		90		75-130	11		20
Trichlorofluoromethane	73		69		62-150	6		20
1,2-Dichloroethane	99		86		70-130	14		20
1,1,1-Trichloroethane	85		78		67-130	9		20
Bromodichloromethane	95		84		67-130	12		20
trans-1,3-Dichloropropene	108		94		70-130	14		20
cis-1,3-Dichloropropene	90		79		70-130	13		20
1,1-Dichloropropene	84		77		70-130	9		20
Bromoform	93		77		54-136	19		20
1,1,2,2-Tetrachloroethane	93		77		67-130	19		20
Benzene	86		78		70-130	10		20
Toluene	94		86		70-130	9		20
Ethylbenzene	104		96		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG764591-1 WG764591-2								
Chloromethane	76		82		64-130	8		20
Bromomethane	80		76		39-139	5		20
Vinyl chloride	76		71		55-140	7		20
Chloroethane	92		84		55-138	9		20
1,1-Dichloroethene	74		69		61-145	7		20
trans-1,2-Dichloroethene	78		71		70-130	9		20
Trichloroethene	88		79		70-130	11		20
1,2-Dichlorobenzene	95		83		70-130	13		20
1,3-Dichlorobenzene	102		90		70-130	13		20
1,4-Dichlorobenzene	101		90		70-130	12		20
Methyl tert butyl ether	85		72		63-130	17		20
p/m-Xylene	111		102		70-130	8		20
o-Xylene	112		102		70-130	9		20
cis-1,2-Dichloroethene	84		76		70-130	10		20
Dibromomethane	88		76		70-130	15		20
1,2,3-Trichloropropane	117		98		64-130	18		20
Acrylonitrile	100		79		70-130	**23**	Q	20
Styrene	109		100		70-130	9		20
Dichlorodifluoromethane	57		54		36-147	5		20
Acetone	**56**	Q	**40**	Q	58-148	**33**	Q	20
Carbon disulfide	72		66		51-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
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Lab Number: L1503327
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG764591-1 WG764591-2								
2-Butanone	111		88		63-138	**23**	Q	20
Vinyl acetate	104		86		70-130	19		20
4-Methyl-2-pentanone	98		79		59-130	**21**	Q	20
2-Hexanone	106		87		57-130	20		20
Bromochloromethane	86		76		70-130	12		20
2,2-Dichloropropane	86		79		63-133	8		20
1,2-Dibromoethane	95		82		70-130	15		20
1,3-Dichloropropane	103		90		70-130	13		20
1,1,1,2-Tetrachloroethane	107		96		64-130	11		20
Bromobenzene	80		70		70-130	13		20
n-Butylbenzene	107		97		53-136	10		20
sec-Butylbenzene	100		90		70-130	11		20
tert-Butylbenzene	91		82		70-130	10		20
o-Chlorotoluene	103		92		70-130	11		20
p-Chlorotoluene	102		91		70-130	11		20
1,2-Dibromo-3-chloropropane	96		84		41-144	13		20
Hexachlorobutadiene	84		77		63-130	9		20
Isopropylbenzene	84		75		70-130	11		20
p-Isopropyltoluene	99		89		70-130	11		20
Naphthalene	78		**66**	Q	70-130	17		20
n-Propylbenzene	93		84		69-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
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Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG764591-1 WG764591-2								
1,2,3-Trichlorobenzene	80		71		70-130	12		20
1,2,4-Trichlorobenzene	84		74		70-130	13		20
1,3,5-Trimethylbenzene	106		95		64-130	11		20
1,2,4-Trimethylbenzene	101		91		70-130	10		20
1,4-Dioxane	75		79		56-162	5		20
p-Diethylbenzene	100		90		70-130	11		20
p-Ethyltoluene	97		87		70-130	11		20
1,2,4,5-Tetramethylbenzene	92		81		70-130	13		20
Ethyl ether	84		71		59-134	17		20
trans-1,4-Dichloro-2-butene	116		94		70-130	**21**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		107		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	92		90		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG764972-1 WG764972-2								
Methylene chloride	105		101		70-130	4		30
1,1-Dichloroethane	100		96		70-130	4		30
Chloroform	101		96		70-130	5		30
Carbon tetrachloride	95		88		70-130	8		30
1,2-Dichloropropane	99		97		70-130	2		30
Dibromochloromethane	91		91		70-130	0		30
2-Chloroethylvinyl ether	94		100		70-130	6		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	100		93		70-130	7		30
Chlorobenzene	101		97		70-130	4		30
Trichlorofluoromethane	122		109		70-139	11		30
1,2-Dichloroethane	99		99		70-130	0		30
1,1,1-Trichloroethane	101		94		70-130	7		30
Bromodichloromethane	96		95		70-130	1		30
trans-1,3-Dichloropropene	94		94		70-130	0		30
cis-1,3-Dichloropropene	99		98		70-130	1		30
1,1-Dichloropropene	102		93		70-130	9		30
Bromoform	82		85		70-130	4		30
1,1,2,2-Tetrachloroethane	90		91		70-130	1		30
Benzene	102		97		70-130	5		30
Toluene	98		94		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG764972-1 WG764972-2								
Ethylbenzene	100		95		70-130	5		30
Chloromethane	94		90		52-130	4		30
Bromomethane	115		109		57-147	5		30
Vinyl chloride	113		102		67-130	10		30
Chloroethane	119		110		50-151	8		30
1,1-Dichloroethene	106		98		65-135	8		30
trans-1,2-Dichloroethene	104		98		70-130	6		30
Trichloroethene	104		98		70-130	6		30
1,2-Dichlorobenzene	97		94		70-130	3		30
1,3-Dichlorobenzene	98		94		70-130	4		30
1,4-Dichlorobenzene	98		96		70-130	2		30
Methyl tert butyl ether	96		98		66-130	2		30
p/m-Xylene	104		98		70-130	6		30
o-Xylene	103		99		70-130	4		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	101		102		70-130	1		30
Styrene	104		100		70-130	4		30
Dichlorodifluoromethane	103		92		30-146	11		30
Acetone	116		115		54-140	1		30
Carbon disulfide	100		91		59-130	9		30
2-Butanone	96		96		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG764972-1 WG764972-2								
Vinyl acetate	92		95		70-130	3		30
4-Methyl-2-pentanone	90		94		70-130	4		30
1,2,3-Trichloropropane	94		95		68-130	1		30
2-Hexanone	84		86		70-130	2		30
Bromochloromethane	104		104		70-130	0		30
2,2-Dichloropropane	100		93		70-130	7		30
1,2-Dibromoethane	94		96		70-130	2		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	96		93		70-130	3		30
Bromobenzene	97		94		70-130	3		30
n-Butylbenzene	101		94		70-130	7		30
sec-Butylbenzene	98		91		70-130	7		30
tert-Butylbenzene	97		91		70-130	6		30
o-Chlorotoluene	96		91		70-130	5		30
p-Chlorotoluene	97		92		70-130	5		30
1,2-Dibromo-3-chloropropane	80		83		68-130	4		30
Hexachlorobutadiene	96		91		67-130	5		30
Isopropylbenzene	96		90		70-130	6		30
p-Isopropyltoluene	98		93		70-130	5		30
Naphthalene	90		92		70-130	2		30
Acrylonitrile	90		99		70-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG764972-1 WG764972-2								
Diisopropyl Ether	96		94		66-130	2		30
Tert-Butyl Alcohol	89		95		70-130	7		30
n-Propylbenzene	98		92		70-130	6		30
1,2,3-Trichlorobenzene	94		95		70-130	1		30
1,2,4-Trichlorobenzene	98		96		70-130	2		30
1,3,5-Trimethylbenzene	98		93		70-130	5		30
1,2,4-Trimethylbenzene	98		93		70-130	5		30
Methyl Acetate	97		103		51-146	6		30
Ethyl Acetate	95		101		70-130	6		30
Acrolein	**64**	Q	**67**	Q	70-130	5		30
Cyclohexane	96		86		59-142	11		30
1,4-Dioxane	107		112		65-136	5		30
Freon-113	104		93		50-139	11		30
p-Diethylbenzene	101		94		70-130	7		30
p-Ethyltoluene	99		92		70-130	7		30
1,2,4,5-Tetramethylbenzene	98		94		70-130	4		30
Tetrahydrofuran	90		98		66-130	9		30
Ethyl ether	104		105		67-130	1		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30
Methyl cyclohexane	102		91		70-130	11		30
Ethyl-Tert-Butyl-Ether	97		97		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG764972-1 WG764972-2								
Tertiary-Amyl Methyl Ether	99		98		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	100		101		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG764972-4 WG764972-5 QC Sample: L1503327-08 Client ID: EP-8 (BOTTOM EAST)												
Methylene chloride	ND	6940	7300	105		7100	102		70-130	3		30
1,1-Dichloroethane	ND	6940	7300	104		7000	101		70-130	4		30
Chloroform	ND	6940	7100	103		7000	100		70-130	2		30
Carbon tetrachloride	ND	6940	7000	100		6700	96		70-130	4		30
1,2-Dichloropropane	ND	6940	7200	103		6900	100		70-130	3		30
Dibromochloromethane	ND	6940	6300	91		6200	89		70-130	2		30
1,1,2-Trichloroethane	ND	6940	7000	101		6800	98		70-130	3		30
Tetrachloroethene	ND	6940	7100	102		6600	96		70-130	6		30
Chlorobenzene	ND	6940	7100	103		6900	99		70-130	4		30
Trichlorofluoromethane	ND	6940	7600	110		7300	105		70-139	5		30
1,2-Dichloroethane	ND	6940	7300	104		7100	103		70-130	2		30
1,1,1-Trichloroethane	ND	6940	7400	106		7100	102		70-130	4		30
Bromodichloromethane	ND	6940	6900	99		6700	97		70-130	2		30
trans-1,3-Dichloropropene	ND	6940	6700	96		6500	94		70-130	2		30
cis-1,3-Dichloropropene	ND	6940	7100	102		6900	99		70-130	2		30
1,1-Dichloropropene	ND	6940	7400	107		7100	103		70-130	4		30
Bromoform	ND	6940	5900	84		5800	84		70-130	1		30
1,1,2,2-Tetrachloroethane	ND	6940	7400	106		7200	103		70-130	3		30
Benzene	ND	6940	7300	105		7000	101		70-130	3		30
Toluene	ND	6940	6900	100		6600	96		70-130	4		30
Ethylbenzene	ND	6940	7100	102		6800	97		70-130	5		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 (BOTTOM EAST)						QC Batch ID: WG764972-4	WG764972-5		QC Sample: L1503327-08			Client ID: EP-8
Chloromethane	ND	6940	6900	100		6800	98		52-130	2		30
Bromomethane	ND	6940	7600	110		7200	104		57-147	6		30
Vinyl chloride	ND	6940	7900	114		7700	111		67-130	3		30
Chloroethane	500J	6940	6200	90		6300	91		50-151	1		30
1,1-Dichloroethene	ND	6940	7700	111		7400	106		65-135	5		30
trans-1,2-Dichloroethene	ND	6940	7400	107		7200	103		70-130	4		30
Trichloroethene	ND	6940	7300	106		7100	102		70-130	4		30
1,2-Dichlorobenzene	ND	6940	6600	95		6400	92		70-130	3		30
1,3-Dichlorobenzene	ND	6940	6600	95		6300	91		70-130	4		30
1,4-Dichlorobenzene	ND	6940	6700	96		6500	93		70-130	3		30
Methyl tert butyl ether	ND	6940	7300	105		7100	103		66-130	2		30
p/m-Xylene	220J	13900	15000	104		14000	99		70-130	5		30
o-Xylene	ND	13900	15000	104		14000	100		70-130	4		30
cis-1,2-Dichloroethene	ND	6940	7200	104		7000	101		70-130	3		30
Dibromomethane	ND	6940	7400	106		7100	103		70-130	4		30
Styrene	ND	13900	14000	104		14000	100		70-130	4		30
Dichlorodifluoromethane	ND	6940	8000	114		7500	108		30-146	5		30
Acetone	1300J	6940	8300	120		8400	122		54-140	1		30
Carbon disulfide	ND	6940	7100	102		6800	97		59-130	4		30
2-Butanone	460J	6940	7300	105		7400	106		70-130	1		30
Vinyl acetate	ND	6940	7000	101		6900	99		70-130	3		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG764972-4 WG764972-5 QC Sample: L1503327-08 Client ID: EP-8 (BOTTOM EAST)												
4-Methyl-2-pentanone	ND	6940	7300	105		7100	102		70-130	3		30
1,2,3-Trichloropropane	ND	6940	7000	100		6800	98		68-130	3		30
2-Hexanone	ND	6940	9100	130		8900	128		70-130	2		30
Bromochloromethane	ND	6940	7300	106		7000	101		70-130	5		30
2,2-Dichloropropane	ND	6940	7100	102		6900	99		70-130	3		30
1,2-Dibromoethane	ND	6940	6900	99		6700	96		70-130	2		30
1,3-Dichloropropane	ND	6940	6900	99		6700	97		69-130	2		30
1,1,1,2-Tetrachloroethane	ND	6940	6600	95		6400	93		70-130	2		30
Bromobenzene	ND	6940	6700	96		6500	93		70-130	3		30
n-Butylbenzene	ND	6940	7100	102		6700	97		70-130	5		30
sec-Butylbenzene	ND	6940	7200	103		6800	98		70-130	5		30
tert-Butylbenzene	ND	6940	6900	100		6600	95		70-130	5		30
o-Chlorotoluene	ND	6940	6800	97		6500	93		70-130	4		30
p-Chlorotoluene	ND	6940	6800	97		6500	94		70-130	3		30
1,2-Dibromo-3-chloropropane	ND	6940	6200	89		6400	92		68-130	4		30
Hexachlorobutadiene	ND	6940	6800	98		6500	93		67-130	5		30
Isopropylbenzene	ND	6940	6800	98		6500	94		70-130	4		30
p-Isopropyltoluene	ND	6940	7100	102		6700	96		70-130	5		30
Naphthalene	ND	6940	6600	95		6600	95		70-130	1		30
Acrylonitrile	ND	6940	7500	108		7400	107		70-130	2		30
n-Propylbenzene	210J	6940	7200	103		6800	98		70-130	6		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 (BOTTOM EAST)	QC Batch ID: WG764972-4		WG764972-5	QC Sample: L1503327-08		Client ID: EP-8						
1,2,3-Trichlorobenzene	ND	6940	6600	95		6400	92		70-130	3		30
1,2,4-Trichlorobenzene	ND	6940	6600	95		6300	91		70-130	5		30
1,3,5-Trimethylbenzene	ND	6940	7000	100		6600	95		70-130	5		30
1,2,4-Trimethylbenzene	ND	6940	7000	100		6600	95		70-130	5		30
1,4-Dioxane	ND	347000	390000	112		420000	120		65-136	7		30
p-Diethylbenzene	ND	6940	7200	103		6700	96		70-130	7		30
p-Ethyltoluene	ND	6940	7000	100		6700	96		70-130	5		30
1,2,4,5-Tetramethylbenzene	93.J	6940	7000	100		6700	97		70-130	4		30
Ethyl ether	ND	6940	7500	108		7600	109		67-130	1		30
trans-1,4-Dichloro-2-butene	ND	6940	7500	108		7100	102		70-130	6		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	98		99		70-130
Toluene-d8	96		95		70-130

PESTICIDES

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01
Client ID: EP-1 (SOUTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/15 02:40
Analyst: SS
Percent Solids: 89%

Date Collected: 02/21/15 12:00
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.74	0.658	1	A
Heptachlor	ND		ug/kg	0.868	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	A
Endrin	ND		ug/kg	0.723	0.296	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	1.66	J	ug/kg	1.74	0.401	1	B
4,4'-DDD	7.02		ug/kg	1.74	0.619	1	B
4,4'-DDT	ND		ug/kg	3.25	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.11	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.573	1	A
Chlordane	ND		ug/kg	14.1	5.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	50		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	32		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02 D
Client ID: EP-2 (WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/15 03:32
Analyst: SS
Percent Solids: 85%

Date Collected: 02/21/15 12:05
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	18.3	3.58	10	A
Lindane	ND		ug/kg	7.62	3.41	10	A
Alpha-BHC	ND		ug/kg	7.62	2.16	10	A
Beta-BHC	ND		ug/kg	18.3	6.94	10	A
Heptachlor	ND		ug/kg	9.15	4.10	10	A
Aldrin	ND		ug/kg	18.3	6.44	10	A
Heptachlor epoxide	ND		ug/kg	34.3	10.3	10	A
Endrin	ND		ug/kg	7.62	3.13	10	A
Endrin ketone	ND		ug/kg	18.3	4.71	10	A
Dieldrin	ND		ug/kg	11.4	5.72	10	A
4,4'-DDE	ND		ug/kg	18.3	4.23	10	A
4,4'-DDD	39.6		ug/kg	18.3	6.53	10	A
4,4'-DDT	65.2		ug/kg	34.3	14.7	10	A
Endosulfan I	ND		ug/kg	18.3	4.32	10	A
Endosulfan II	ND		ug/kg	18.3	6.12	10	A
Endosulfan sulfate	ND		ug/kg	7.62	3.63	10	A
Methoxychlor	ND		ug/kg	34.3	10.7	10	A
Toxaphene	ND		ug/kg	343	96.1	10	A
cis-Chlordane	26.4		ug/kg	22.9	6.37	10	B
trans-Chlordane	40.6		ug/kg	22.9	6.04	10	B
Chlordane	ND		ug/kg	149	60.6	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	47		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**611**	Q	30-150	A
Decachlorobiphenyl	43		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03 D
Client ID: EP-3 (NORTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/15 03:45
Analyst: SS
Percent Solids: 85%

Date Collected: 02/21/15 12:10
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	18.4	3.60	10	A
Lindane	ND		ug/kg	7.67	3.43	10	A
Alpha-BHC	ND		ug/kg	7.67	2.18	10	A
Beta-BHC	ND		ug/kg	18.4	6.98	10	A
Heptachlor	ND		ug/kg	9.20	4.12	10	A
Aldrin	ND		ug/kg	18.4	6.48	10	A
Heptachlor epoxide	ND		ug/kg	34.5	10.3	10	A
Endrin	ND		ug/kg	7.67	3.14	10	A
Endrin ketone	ND		ug/kg	18.4	4.74	10	A
Dieldrin	465		ug/kg	11.5	5.75	10	A
4,4'-DDE	ND		ug/kg	18.4	4.25	10	A
4,4'-DDD	ND		ug/kg	18.4	6.56	10	A
4,4'-DDT	ND		ug/kg	34.5	14.8	10	A
Endosulfan I	ND		ug/kg	18.4	4.35	10	A
Endosulfan II	ND		ug/kg	18.4	6.15	10	A
Endosulfan sulfate	ND		ug/kg	7.67	3.65	10	A
Methoxychlor	ND		ug/kg	34.5	10.7	10	A
Toxaphene	ND		ug/kg	345	96.6	10	A
cis-Chlordane	615		ug/kg	23.0	6.41	10	A
trans-Chlordane	481		ug/kg	23.0	6.07	10	A
Chlordane	5350		ug/kg	149	60.9	10	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	33		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/25/15 00:23
Analyst: SS
Percent Solids: 90%

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.658	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	47.5		ug/kg	1.73	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	A
Endrin	ND		ug/kg	0.723	0.296	1	A
Endrin ketone	ND		ug/kg	1.73	0.447	1	A
Dieldrin	277	E	ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.619	1	A
4,4'-DDT	ND		ug/kg	3.25	1.40	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.11	1	A
cis-Chlordane	414	E	ug/kg	2.17	0.604	1	A
trans-Chlordane	1760	E	ug/kg	2.17	0.572	1	B
Chlordane	2080		ug/kg	14.1	5.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	31		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	44		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-04 D	Date Collected:	02/21/15 12:17
Client ID:	EP-4 (BOTTOM WEST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/27/15 03:58	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Dieldrin	329		ug/kg	10.8	5.42	10	A
cis-Chlordane	323		ug/kg	21.7	6.04	10	A
trans-Chlordane	304		ug/kg	21.7	5.72	10	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-05	Date Collected:	02/22/15 08:55
Client ID:	EP-5 (EAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/25/15 00:36	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.721	0.322	1	A
Alpha-BHC	ND		ug/kg	0.721	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.656	1	A
Heptachlor	ND		ug/kg	0.865	0.388	1	A
Aldrin	926	E	ug/kg	1.73	0.609	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.973	1	A
Endrin	ND		ug/kg	0.721	0.295	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	543	E	ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.400	1	A
4,4'-DDD	ND		ug/kg	1.73	0.617	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.578	1	A
Endosulfan sulfate	ND		ug/kg	0.721	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.08	1	A
cis-Chlordane	1630	E	ug/kg	2.16	0.602	1	A
trans-Chlordane	1220	E	ug/kg	2.16	0.571	1	B
Chlordane	7550	E	ug/kg	14.0	5.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	B
Decachlorobiphenyl	**27**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-05 D	Date Collected:	02/22/15 08:55
Client ID:	EP-5 (EAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/27/15 04:12	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Aldrin	1390		ug/kg	17.3	6.09	10	A
Dieldrin	664	P	ug/kg	10.8	5.40	10	A
cis-Chlordane	1350		ug/kg	21.6	6.02	10	A
trans-Chlordane	1430		ug/kg	21.6	5.71	10	A
Chlordane	11400		ug/kg	140	57.3	10	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/15 02:53
Analyst: SS
Percent Solids: 83%

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.363	1	A
Lindane	ND		ug/kg	0.773	0.346	1	A
Alpha-BHC	ND		ug/kg	0.773	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.703	1	A
Heptachlor	ND		ug/kg	0.928	0.416	1	A
Aldrin	11.2		ug/kg	1.86	0.653	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.773	0.317	1	A
Endrin ketone	ND		ug/kg	1.86	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	4.51		ug/kg	1.86	0.429	1	A
4,4'-DDD	7.32		ug/kg	1.86	0.662	1	A
4,4'-DDT	ND		ug/kg	3.48	1.49	1	A
Endosulfan I	ND		ug/kg	1.86	0.438	1	A
Endosulfan II	ND		ug/kg	1.86	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.773	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.74	1	A
cis-Chlordane	8.83		ug/kg	2.32	0.646	1	A
trans-Chlordane	15.6	PI	ug/kg	2.32	0.612	1	A
Chlordane	133		ug/kg	15.1	6.14	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	46		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	45		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-07
Client ID: EP-7 (SOUTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/25/15 01:02
Analyst: SS
Percent Solids: 84%

Date Collected: 02/22/15 08:45
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.689	1	A
Heptachlor	ND		ug/kg	0.909	0.408	1	A
Aldrin	715	E	ug/kg	1.82	0.640	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.311	1	A
Endrin ketone	ND		ug/kg	1.82	0.468	1	A
Dieldrin	656	E	ug/kg	1.14	0.568	1	A
4,4'-DDE	ND		ug/kg	1.82	0.420	1	A
4,4'-DDD	ND		ug/kg	1.82	0.648	1	A
4,4'-DDT	ND		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.54	1	A
cis-Chlordane	1810	E	ug/kg	2.27	0.633	1	A
trans-Chlordane	2640	E	ug/kg	2.27	0.600	1	B
Chlordane	9410	E	ug/kg	14.8	6.02	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	36		30-150	B
Decachlorobiphenyl	30		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-07 D	Date Collected:	02/22/15 08:45
Client ID:	EP-7 (SOUTHEAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/27/15 04:25	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Aldrin	1200		ug/kg	18.2	6.40	10	B
Dieldrin	988		ug/kg	11.4	5.68	10	A
cis-Chlordane	1490		ug/kg	22.7	6.33	10	A
trans-Chlordane	1340		ug/kg	22.7	6.00	10	A
Chlordane	12900		ug/kg	148	60.2	10	B

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-08	Date Collected:	02/22/15 08:34
Client ID:	EP-8 (BOTTOM EAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/25/15 01:15	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.19	0.430	1	A
Lindane	ND		ug/kg	0.914	0.409	1	A
Alpha-BHC	ND		ug/kg	0.914	0.260	1	A
Beta-BHC	ND		ug/kg	2.19	0.832	1	A
Heptachlor	ND		ug/kg	1.10	0.492	1	A
Aldrin	707	E	ug/kg	2.19	0.773	1	A
Heptachlor epoxide	ND		ug/kg	4.11	1.23	1	A
Endrin	ND		ug/kg	0.914	0.375	1	A
Endrin ketone	ND		ug/kg	2.19	0.565	1	A
Dieldrin	186	E	ug/kg	1.37	0.686	1	A
4,4'-DDE	ND		ug/kg	2.19	0.507	1	A
4,4'-DDD	ND		ug/kg	2.19	0.783	1	A
4,4'-DDT	ND		ug/kg	4.11	1.76	1	A
Endosulfan I	ND		ug/kg	2.19	0.518	1	A
Endosulfan II	ND		ug/kg	2.19	0.733	1	A
Endosulfan sulfate	ND		ug/kg	0.914	0.435	1	A
Methoxychlor	ND		ug/kg	4.11	1.28	1	A
Toxaphene	ND		ug/kg	41.1	11.5	1	A
cis-Chlordane	216	E	ug/kg	2.74	0.764	1	A
trans-Chlordane	164		ug/kg	2.74	0.724	1	A
Chlordane	2240		ug/kg	17.8	7.27	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	40		30-150	B
2,4,5,6-Tetrachloro-m-xylene	137		30-150	A
Decachlorobiphenyl	52		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-08 D	Date Collected:	02/22/15 08:34
Client ID:	EP-8 (BOTTOM EAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	02/24/15 10:04
Analytical Date:	02/27/15 04:38	Cleanup Method:	EPA 3620B
Analyst:	SS	Cleanup Date:	02/24/15
Percent Solids:	72%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Aldrin	1060		ug/kg	21.9	7.73	10	A
Dieldrin	271		ug/kg	13.7	6.86	10	A
cis-Chlordane	336		ug/kg	27.4	7.64	10	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09
Client ID: EP-X
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/25/15 01:29
Analyst: SS
Percent Solids: 88%

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.716	0.320	1	A
Alpha-BHC	ND		ug/kg	0.716	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.652	1	A
Heptachlor	ND		ug/kg	0.859	0.385	1	A
Aldrin	163	E	ug/kg	1.72	0.605	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.967	1	A
Endrin	ND		ug/kg	0.716	0.294	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	195	E	ug/kg	1.07	0.537	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.613	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.574	1	A
Endosulfan sulfate	ND		ug/kg	0.716	0.341	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.02	1	A
cis-Chlordane	233	E	ug/kg	2.15	0.599	1	A
trans-Chlordane	204	E	ug/kg	2.15	0.567	1	A
Chlordane	2030		ug/kg	14.0	5.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	31		30-150	B
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	40		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09 D
Client ID: EP-X
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/15 04:51
Analyst: SS
Percent Solids: 88%

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Aldrin	264		ug/kg	17.2	6.05	10	A
Dieldrin	258		ug/kg	10.7	5.37	10	A
cis-Chlordane	405		ug/kg	21.5	5.99	10	A
trans-Chlordane	312		ug/kg	21.5	5.67	10	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA
Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-11	Date Collected:	02/22/15 00:00
Client ID:	FIELD BLANK	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	02/25/15 00:59
Analytical Date:	02/25/15 18:27	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	02/25/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/24/15 22:39
Analyst: SS

Extraction Method: EPA 3546
Extraction Date: 02/24/15 10:04
Cleanup Method: EPA 3620B
Cleanup Date: 02/24/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-09 Batch: WG764467-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.647	0.289	A
Alpha-BHC	ND		ug/kg	0.647	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.589	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.647	0.265	A
Endrin ketone	ND		ug/kg	1.55	0.400	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.554	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.367	A
Endosulfan II	ND		ug/kg	1.55	0.519	A
Endosulfan sulfate	ND		ug/kg	0.647	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.906	A
Toxaphene	ND		ug/kg	29.1	8.15	A
cis-Chlordane	ND		ug/kg	1.94	0.541	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMIC

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/25/15 17:38
Analyst: GP

Extraction Method: EPA 3510C
Extraction Date: 02/25/15 00:59
Cleanup Method: EPA 3620B
Cleanup Date: 02/25/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG764618-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG764467-2 WG764467-3									
Delta-BHC	86		73		30-150	16		30	A
Lindane	95		79		30-150	18		30	A
Alpha-BHC	106		90		30-150	16		30	A
Beta-BHC	111		98		30-150	12		30	A
Heptachlor	106		91		30-150	15		30	A
Aldrin	102		88		30-150	15		30	A
Heptachlor epoxide	99		84		30-150	16		30	A
Endrin	101		86		30-150	16		30	A
Endrin ketone	79		67		30-150	16		30	A
Dieldrin	99		84		30-150	16		30	A
4,4'-DDE	104		88		30-150	17		30	A
4,4'-DDD	107		92		30-150	15		30	A
4,4'-DDT	96		82		30-150	16		30	A
Endosulfan I	90		77		30-150	16		30	A
Endosulfan II	92		79		30-150	15		30	A
Endosulfan sulfate	75		65		30-150	14		30	A
Methoxychlor	92		80		30-150	14		30	A
cis-Chlordane	91		79		30-150	14		30	A
trans-Chlordane	105		92		30-150	13		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG764467-2 WG764467-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		66		30-150	B
Decachlorobiphenyl	61		57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		74		30-150	A
Decachlorobiphenyl	61		52		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG764618-2 WG764618-3									
Delta-BHC	83		89		30-150	6		20	A
Lindane	98		105		30-150	7		20	A
Alpha-BHC	109		118		30-150	8		20	A
Beta-BHC	102		109		30-150	7		20	A
Heptachlor	98		105		30-150	7		20	A
Aldrin	89		95		30-150	7		20	A
Heptachlor epoxide	91		97		30-150	7		20	A
Endrin	112		115		30-150	3		20	A
Endrin ketone	101		106		30-150	5		20	A
Dieldrin	98		103		30-150	5		20	A
4,4'-DDE	87		91		30-150	5		20	A
4,4'-DDD	99		103		30-150	4		20	A
4,4'-DDT	108		110		30-150	2		20	A
Endosulfan I	90		95		30-150	5		20	A
Endosulfan II	91		96		30-150	6		20	A
Endosulfan sulfate	100		106		30-150	6		20	A
Methoxychlor	125		129		30-150	3		20	A
cis-Chlordane	89		94		30-150	5		20	A
trans-Chlordane	108		118		30-150	9		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG764618-2 WG764618-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		91		30-150	A
Decachlorobiphenyl	72		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		97		30-150	B
Decachlorobiphenyl	78		91		30-150	B

METALS

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01
Client ID: EP-1 (SOUTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 89%

Date Collected: 02/21/15 12:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.43	0.03	1	02/24/15 14:26	02/25/15 11:03	EPA 3050B	1,6010C	JH
Copper, Total	11		mg/kg	0.43	0.09	1	02/24/15 14:26	02/25/15 11:03	EPA 3050B	1,6010C	JH
Mercury, Total	0.12		mg/kg	0.07	0.02	1	02/24/15 06:17	02/24/15 11:53	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02
Client ID: EP-2 (WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 85%

Date Collected: 02/21/15 12:05
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.09	J	mg/kg	0.45	0.03	1	02/24/15 14:26	02/25/15 11:07	EPA 3050B	1,6010C	JH
Copper, Total	21		mg/kg	0.45	0.09	1	02/24/15 14:26	02/25/15 11:07	EPA 3050B	1,6010C	JH
Mercury, Total	0.29		mg/kg	0.08	0.02	1	02/24/15 06:17	02/24/15 11:57	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03
Client ID: EP-3 (NORTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 85%

Date Collected: 02/21/15 12:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.46	0.03	1	02/24/15 14:26	02/25/15 11:53	EPA 3050B	1,6010C	JH
Copper, Total	14		mg/kg	0.46	0.09	1	02/24/15 14:26	02/25/15 11:53	EPA 3050B	1,6010C	JH
Mercury, Total	0.27		mg/kg	0.09	0.02	1	02/24/15 06:17	02/24/15 12:06	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 90%

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.41	0.03	1	02/24/15 14:26	02/25/15 11:56	EPA 3050B	1,6010C	JH
Copper, Total	10		mg/kg	0.41	0.08	1	02/24/15 14:26	02/25/15 11:56	EPA 3050B	1,6010C	JH
Mercury, Total	0.13		mg/kg	0.08	0.02	1	02/24/15 06:17	02/24/15 12:10	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-05
Client ID: EP-5 (EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 89%

Date Collected: 02/22/15 08:55
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.42	0.03	1	02/24/15 14:26	02/25/15 12:00	EPA 3050B	1,6010C	JH
Copper, Total	7.8		mg/kg	0.42	0.09	1	02/24/15 14:26	02/25/15 12:00	EPA 3050B	1,6010C	JH
Mercury, Total	0.17		mg/kg	0.08	0.02	1	02/24/15 06:17	02/24/15 12:11	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 83%

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.10	J	mg/kg	0.45	0.03	1	02/24/15 14:26	02/25/15 12:04	EPA 3050B	1,6010C	JH
Copper, Total	17		mg/kg	0.45	0.09	1	02/24/15 14:26	02/25/15 12:04	EPA 3050B	1,6010C	JH
Mercury, Total	0.26		mg/kg	0.09	0.02	1	02/24/15 06:17	02/24/15 12:13	EPA 7471B	1,7471B	MC

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICA	**Report Date:**	02/27/15

SAMPLE RESULTS

Lab ID:	L1503327-07	Date Collected:	02/22/15 08:45
Client ID:	EP-7 (SOUTHEAST)	Date Received:	02/23/15
Sample Location:	1801 FALMOUTH AVE	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.46	0.03	1	02/24/15 14:26	02/25/15 12:08	EPA 3050B	1,6010C	JH
Copper, Total	12		mg/kg	0.46	0.09	1	02/24/15 14:26	02/25/15 12:08	EPA 3050B	1,6010C	JH
Mercury, Total	0.37		mg/kg	0.08	0.02	1	02/24/15 06:17	02/24/15 12:15	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-08
Client ID: EP-8 (BOTTOM EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 72%

Date Collected: 02/22/15 08:34
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.24	J	mg/kg	0.55	0.04	1	02/24/15 14:26	02/25/15 10:29	EPA 3050B	1,6010C	JH
Copper, Total	34		mg/kg	0.55	0.11	1	02/24/15 14:26	02/25/15 10:29	EPA 3050B	1,6010C	JH
Mercury, Total	0.18		mg/kg	0.10	0.02	1	02/24/15 06:17	02/24/15 12:17	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09
Client ID: EP-X
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil
Percent Solids: 88%

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/kg	0.44	0.03	1	02/24/15 14:26	02/25/15 12:35	EPA 3050B	1,6010C	JH
Copper, Total	8.2		mg/kg	0.44	0.09	1	02/24/15 14:26	02/25/15 12:35	EPA 3050B	1,6010C	JH
Mercury, Total	0.08		mg/kg	0.07	0.02	1	02/24/15 06:17	02/24/15 12:29	EPA 7471B	1,7471B	MC

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-11
Client ID: FIELD BLANK
Sample Location: 1801 FALMOUTH AVE
Matrix: Water

Date Collected: 02/22/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.005	0.001	1	02/24/15 10:31	02/24/15 16:59	EPA 3005A	1,6010C	JH
Copper, Total	ND		mg/l	0.0100	0.0020	1	02/24/15 10:31	02/24/15 16:59	EPA 3005A	1,6010C	JH
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/24/15 10:09	02/24/15 18:09	EPA 7470A	1,7470A	AB

Project Name: FORMER ZOE CHEMICAL **Lab Number:** L1503327

Project Number: FORMER ZOE CHEMICA **Report Date:** 02/27/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-09 Batch: WG764381-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/24/15 06:17	02/24/15 11:43	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 11 Batch: WG764452-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	02/24/15 10:09	02/24/15 18:05	1,7470A	AB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 11 Batch: WG764462-1										
Cadmium, Total	ND		mg/l	0.005	0.001	1	02/24/15 10:31	02/24/15 16:12	1,6010C	JH
Copper, Total	ND		mg/l	0.0100	0.0020	1	02/24/15 10:31	02/24/15 16:12	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-09 Batch: WG764515-1										
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/24/15 14:26	02/25/15 10:21	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	02/24/15 14:26	02/25/15 10:21	1,6010C	JH

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-09 Batch: WG764381-2 SRM Lot Number: D083-540								
Mercury, Total	123		-		75-126	-		
Total Metals - Westborough Lab Associated sample(s): 11 Batch: WG764452-2								
Mercury, Total	111		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 11 Batch: WG764462-2								
Cadmium, Total	115		-		80-120	-		
Copper, Total	115		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-09 Batch: WG764515-2 SRM Lot Number: D083-540								
Cadmium, Total	90		-		82-118	-		
Copper, Total	94		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-09 (BOTTOM EAST)	QC Batch ID: WG764381-3	WG764381-4	QC Sample: L1503327-08	Client ID: EP-8								
Mercury, Total	0.18	0.181	0.45	**149**	Q	0.49	**163**	Q	80-120	9		20
Total Metals - Westborough Lab Associated sample(s): 11	QC Batch ID: WG764452-4	QC Sample: L1503327-11	Client ID: FIELD BLANK									
Mercury, Total	ND	0.005	0.00513	103		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 11	QC Batch ID: WG764462-4	QC Sample: L1503350-03	Client ID: MS Sample									
Cadmium, Total	ND	0.051	0.057	111		-	-		75-125	-		20
Copper, Total	ND	0.25	0.284	114		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-09 (BOTTOM EAST)	QC Batch ID: WG764515-4	WG764515-5	QC Sample: L1503327-08	Client ID: EP-8								
Cadmium, Total	0.24J	5.51	4.3	78		4.4	80		75-125	2		20
Copper, Total	34.	27	55	78		56	82		75-125	2		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHE

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 11 QC Batch ID: WG764452-3 QC Sample: L1503327-11 Client ID: FIELD BLANK						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-01
Client ID: EP-1 (SOUTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/21/15 12:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-02
Client ID: EP-2 (WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/21/15 12:05
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-03
Client ID: EP-3 (NORTHWEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/21/15 12:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-04
Client ID: EP-4 (BOTTOM WEST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/21/15 12:17
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-05
Client ID: EP-5 (EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/22/15 08:55
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-06
Client ID: EP-6 (NORTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/22/15 09:10
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-07
Client ID: EP-7 (SOUTHEAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/22/15 08:45
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-08
Client ID: EP-8 (BOTTOM EAST)
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/22/15 08:34
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.0		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICA

Lab Number: L1503327
Report Date: 02/27/15

SAMPLE RESULTS

Lab ID: L1503327-09
Client ID: EP-X
Sample Location: 1801 FALMOUTH AVE
Matrix: Soil

Date Collected: 02/21/15 00:00
Date Received: 02/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	02/24/15 03:07	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHE

Lab Number: L1503327
Report Date: 02/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab (SOUTHWEST) Associated sample(s): 01-09 QC Batch ID: WG764393-1 QC Sample: L1503327-01 Client ID: EP-1						
Solids, Total	89.0	89.8	%	1		20

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503327-01A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-01B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-02A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-02B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-03A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-03B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-04A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-04B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-05A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-05B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-06A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-06B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-07A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-07B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-08A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-08A1	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-08A2	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-08B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-08B1	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-08B2	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)
L1503327-09A	Vial Large Septa unpreserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-09B	Glass 250ml/8oz unpreserved	A	N/A	3.5	Y	Absent	TS(7),CU-TI(180),NYTCL-8081(14),HG-T(28),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: FORMER ZOE CHEMICAL
Project Number: FORMER ZOE CHEMICAL

Lab Number: L1503327
Report Date: 02/27/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1503327-10A	Vial HCl preserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-10B	Vial HCl preserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-11A	Vial HCl preserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-11B	Vial HCl preserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-11C	Vial HCl preserved	A	N/A	3.5	Y	Absent	NYTCL-8260(14)
L1503327-11D	Plastic 250ml HNO3 preserved	A	<2	3.5	Y	Absent	CU-TI(180),HG-T(28),CD-TI(180)
L1503327-11E	Amber 500ml unpreserved	A	7	3.5	Y	Absent	NYTCL-8081(7)
L1503327-11F	Amber 500ml unpreserved	A	7	3.5	Y	Absent	NYTCL-8081(7)

Container Comments

L1503327-01B

L1503327-02B

L1503327-03B

L1503327-04B

L1503327-05B

L1503327-06B

L1503327-07B

L1503327-08B

L1503327-09B

*Values in parentheses indicate holding time in days

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

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.
NI	- Not Ignitable.
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.

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

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.

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.

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.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

Data Qualifiers

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

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER ZOE CHEMICAL	**Lab Number:**	L1503327
Project Number:	FORMER ZOE CHEMICAL	**Report Date:**	02/27/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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

Last revised December 16, 2014

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

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
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.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, 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, SM9222D-MF**.

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 2/23/15

ALPHA Job #: L1503327

Client Information

Client: C.A. Rich Consultants
Address: 17 Dupont St
Plainview, NY 11803
Phone: 516-576-8841
Fax:
Email: JProscia@Carichinc.com

Project Information

Project Name: Former Zoe Chemical
Project Location: 180 Falmouth Ave
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 3/2/15
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	Pesticides 8081	SW Cadmium	SW Copper	7471B Mercury				Total Bottle
03327-01	EP-1 (South West)	2/21/15	12	S	JP	X	X	X	X	X				
-02	EP-2 (West)	2/21/15	12:05	S	JP	X	X	X	X	X				
-03	EP-3 (North West)	2/21/15	12:10	S	JP	X	X	X	X	X				
-04	EP-4 (Bottom West)	2/21/15	12:17	S	JP	X	X	X	X	X				
-05	EP-5 (East)	2/22/15	8:55am	S	JP	X	X	X	X	X				
-06	EP-6 (North East)	2/22/15	9:10am	S	JP	X	X	X	X	X				
-07	EP-7 (South East)	2/22/15	8:46am	S	JP	X	X	X	X	X				
-08	EP-8 (Bottom East)	2/22/15	8:34am	S	JP	X	X	X	X	X				
-09	EP-8 MS	2/22/15	8:35am	S	JP	X	X	X	X	X				
-10	EP-8 MSD	2/22/15	8:37am	S	JP	X	X	X	X	X				

Container Type
Preservative

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Gene Wentz	2/23/15 11:55A	[illegible] KAL	2-23-15 1155
[illegible]	2-23-15 1900	Tom Tobin	2-23-15 1900
Tom Tobin	2-23-15 2225	[illegible]	2/23/15 22:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

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

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 2/23/15

ALPHA Job #: L1508327

Client Information

Client: Same
Address: as
Phone: Page 1
Fax:
Email:

Project Information

Project Name:
Project Location: Same as Page 1
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 3/2/15
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOC 8260
Pesticides 608
Cadmium SW6010
Copper SW6010
Mercury SW7471B

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	Pesticides 608	Cadmium SW6010	Copper SW6010	Mercury SW7471B				Sample Specific Comments
033327-11	EP-X	2/21/15	-	S	JP	X	X	X	X	X				
-12	Trip Blank	2/21/15	-	TB	JP	X								
-13	Field Blank	2/22/15		FB		X	X	X	X	X				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/23/15 11:55A	[signature] AAL	2-23-15 1155
[signature]	2-23-15 1900	Tom Tobin	2-23-15 1900
Tom Tobin	2-23-15 2225	[signature]	2/23/15 22:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)