# 11075 Walden Avenue

ALDEN, NEW YORK

# Final Engineering Report

NYSDEC Site Number: C915333

**Prepared for:**

J&M Walden Holdings Corp.
(formerly named Doritex Corp.)
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JULY 2025

## CERTIFICATIONS

I, Daniel P. Noll, certify that I 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 Alternatives Analysis was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10), and I certify that all activities implemented as part of the Interim Remedial Measures were performed in full accordance with the Department-approved Work Plans and any Department-approved modifications.

I certify that I had primary direct responsibility for implementation of the subject construction program, and I certify that all construction activities were completed in substantial conformance with the Department-approved Work Plans, and I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the IRM Work Plan 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 any 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, and 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, Daniel P. Noll, of LaBella Associates, D.P.C., am certifying as Owner's Designated Site Representative and I have been authorized and designated by all site owners to sign this certification for the Site.

| 081996 | 7/21/2025 | |
|---|---|---|
| NYS Professional Engineer # | Date | Signature |



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## LIST OF ACRONYMS

| Acronym | Definition |
|---|---|
| BCA | Brownfield Cleanup Agreement |
| BCP | Brownfield Cleanup Program |
| c12-DCE | 1,2-Dichloroethene |
| CAMP | Community Air Monitoring Plan |
| CFR | Code of Federal Regulations |
| CVOC | Chlorinated Volatile Organic Compound |
| DER | Division of Environmental Remediation |
| DER-10 | DER-10 Technical Guidance for Site Investigation and Remediation |
| EC | Engineering Control |
| FER | Final Engineering Report |
| EWP | Excavation Work Plan |
| HASP | Health and Safety Plan |
| IC | Institutional Control |
| IGTP | In-Situ Groundwater Treatment Plan |
| IRMWP | Interim Remedial Measures Work Plan |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| NYSDOT | New York State Department of Transportation |
| OSHA | Occupational Safety and Health Administration |
| PCE | Tetrachloroethylene |
| PID | Photoionization Detector |
| ppb | Parts Per Billion |
| ppm | Part Per Million |
| PRAP | Proposed Remedial Action Plan |
| PRB | Permeable Reactive Barrier |
| QAPP | Quality Assurance Project Plan |
| QA/QC | Quality Assurance/Quality Control |
| RAO | Remedial Action Objective |
| RCRA | Resource Conservation and Recovery Act |
| RWP | Remedial Work Plan |
| RI | Remedial Investigation |
| ROD | Record of Decision |
| SCG | Standards, Criteria and Guidance |
| SCOs | Soil Cleanup Objectives |
| SSDS | Sub-Slab Depressurization System |
| SSHO | Site Safety and Health Officer |
| SVOC | Semi-Volatile Organic Compounds |
| SMP | Site Management Plan |
| TAGM | Technical Assistance and Guidance Memorandum |

| | |
|---|---|
| TCE | Trichloroethylene |
| TCL | Target Compound List |
| TCLP | Toxicity Characteristic Leaching Procedure |
| USEPA | United States Environmental Protection Agency |
| VC | Vinyl Chloride |
| VOC | Volatile Organic Compound |

# FINAL ENGINEERING REPORT

## 1.0 BACKGROUND AND SITE DESCRIPTION

Walden Realty Limited Partnership and J&M Walden Holdings Corp. (formerly known as Doritex Corp.) entered into a BCA with the NYSDEC on January 19, 2018 to remediate a 2.94-acre property located at 11075 Walden Avenue, Town of Alden, Erie County, New York (see Figure 1), hereinafter referred to as the "Site". The Site was remediated in accordance with a series of IRMWPs approved by the NYSDEC.

The Site consists of one tax parcel identified as SBL #96.00-4-6.2. Site features include one, single-story 34,858 square foot commercial building (Site Building) located on the central portion of the Site. Although the Site Building was vacant upon entrance of the Site into the BCP, and remained vacant during the majority of BCP remedial program activities, the south portion of the Site Building is now occupied by a truck repair operation which began in 2021. The exterior of the Site includes green space to the north, west, and south of the Site Building, and asphalt-paved parking areas to the east and south of the Site Building. Adjacent properties include undeveloped land located west and south of the Site facing Commerce Drive (although the Site is legally addressed 11075 Walden Avenue), commercial buildings located east beyond Commerce Drive legally addressed as 11155 Walden Avenue and 2885 Commerce Drive, commercial buildings located north beyond Walden Avenue legally addressed as 11112 Walden Avenue, and a residence located north across Walden Avenue legally addressed as 11118 Walden Avenue. It should be noted that the Site obtains potable water from the municipal water system. The boundaries of the Site are fully described in Appendix A: Survey Map, Metes and Bounds.

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

## 2.0 SUMMARY OF SITE REMEDY

### 2.1 Remedial Action Objectives

The following RAOs were identified for this Site.

#### 2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent contact with, or inhalation of volatiles, 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 from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

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

### 2.1.3 Soil Vapor RAO

RAOs for Public Health Protection

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

## 2.2 Description of Selected Remedy

The remedy for the Site was implemented through several IRMs. The approach for the NYSDEC approved IRMs are detailed within the IRMWP dated November 28, 2018, Supplemental IRMWP dated April 14, 2020, and Floor Coating and Post Construction Sampling IRMWP dated September 17, 2021. The results of the IRMs are detailed within the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8(f). The following are the components of the selected remedy.

1. Excavation and off-site disposal to the extent feasible of accessible CVOC-impacted soil beneath the west-central portion of the Site Building (the reported location of the former dry-cleaning machine), i.e., the IRM Excavation. During the IRM Excavation, the remedial excavation was advanced to approximately 10 feet below the ground surface (ft bgs). Approximately, 218 tons of CVOC-impacted soil was removed from the IRM Excavation and transported for proper off-site disposal.
2. Injection of a mixture of Anaerobic BioChem and Zero Valent Iron slurry (ABC+) to provide enhanced reductive dechlorination of the residual subsurface CVOC constituents beneath the IRM Excavation and proximate to MW-12 along the west exterior of the Site Building adjacent to the location of the former dry-cleaning machine.
3. Installation and operation of an active SSDS within the existing Site Building.
4. Removal, replacement, and maintenance of approximately 3,100 square feet ($ft^2$) of the existing damaged epoxy floor covering within the north portion of the Central Warehouse and Utility Room, and wetting of the p-traps in existing sinks, toilets and drain lines.
5. Removal of the vent and permanent closure of the opening between the Utility Room and the adjacent Office Kitchen/Breakroom located within the office portion of the Site Building.
6. As only one documentation soil sample collected at Floor 1 exhibited a PCE concentration of 170,000 µg/kg and one soil sample collected as part of RI collected from soil boring SB-40 (15-16 ft bgs) exhibited PCE at a concentration of 310,000 micrograms per kilograms (µg/kg) exceeding the respective NYSDEC Part 375

Commercial-Use Soil Cleanup Objective of 150,000 µg/kg PCE, the replacement concrete interior floor slab installed at the completion of IRM Excavation must be maintained as the cover system.

7. Implementation of institutional controls including a SMP incorporating an Excavation Work Plan, a Soil & Groundwater Management Plan, a Soil Vapor Intrusion Evaluation Plan (for any new buildings), and an Engineering and Institutional Control certification through an Environmental Easement. The Environmental Easement restricts use of the Site to commercial / industrial applications and precludes groundwater use without treatment. The Environmental Easement runs with the land and includes the following:
    a. Site use will be restricted commercial or industrial use.
    b. The cover system will remain in place.
    c. The excavation work plan (EWP) appended to the SMP will be implemented for all future invasive activities at the Site.
    d. Groundwater monitoring will be required on an annual schedule as part of the SMP.
    e. The use of groundwater without treatment and New York State Department of Health or County Health Department approval will be prohibited.
    f. Annual certification of institutional and engineering controls.
8. Green remediation principles and techniques were implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation considerations are detailed below and are summarized within the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025.
    a. Environmental impacts of treatment technologies and remedy stewardship over the long term.
    b. Reducing direct and indirect greenhouse gases and other emissions.
    c. Increasing energy efficiency and minimizing use of non-renewable energy.
    d. Conserving and efficiently managing resources and materials.
    e. Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste.
    f. Maximizing habitat value and creating habitat when possible.
    g. Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals.
    h. Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

## 3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this Site was implemented through implementation of multiple IRMs detailed within Section 3.1 below. No operable units were associated with the IRMs implemented for the Site.

### 3.1 Interim Remedial Measures

Interim Remedial Measures were completed in accordance with the following NYSDEC approved workplans.

- IRMWP dated November 28, 2018
- Supplemental IRMWP dated April 14, 2020
- Floor Coating and Post Construction Sampling IRMWP dated September 17, 2021.

Below is a summary of the IRMs implemented at the Site. It should be noted that IRM activities are set forth in detail within the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025.

### 3.1.1 IRM Excavation

The objective of this IRM was to remove accessible CVOC-impacted soil from beneath the concrete slab in the west-central portion of the Site Building to eliminate the primary source of CVOCs contributing to impacted soil vapor, and to reduce partitioning of CVOCs from soil into groundwater, to the extent practicable.

Prior to advancement of the IRM Excavation, power was disconnected to the portion of the Site Building anticipated for excavation based on the presence of electrical lines running through the proposed IRM Excavation area. Then, the concrete floor was saw-cut and jack-hammered. Loose concrete was placed to the south of the Site Building for later off-site disposal. At the permission of the property owner, the electrical lines were cut and removed from the proposed excavation area. The IRM excavation was advanced between May 29 and June 5, 2019. The IRM Excavation consisted of a 1,176 square-foot area and was extended to a maximum depth of approximately 10 ft bgs beneath the previous dry cleaner machine location and four ft bgs in the remainder of the excavation. It should be noted that the presence of foundational components, specifically the Site Building footer located immediately adjacent the west limits of the IRM Excavation limited the vertical extent of the excavation as well as the lateral extent of the excavation to the west. Approximately 117.46 tons of hazardous soil, 99.34 tons of non-hazardous soil, and 160-gallons of groundwater were staged on-site and subsequently disposed of properly in accordance with all applicable law. Details related to soil and groundwater disposal are included within Section 4.3 below. The approximate extent of the IRM Excavation is depicted on Figure 3.

Confirmatory and documentation soil samples were collected from the excavation areas and sidewalls. Those samples were chemically analyzed to verify attainment of the prescribed SCGs. As reflected in Table 1, the soil sampling results confirmed that no VOCs were detected in the soil samples collected from the IRM Excavation at concentrations exceeding NYSDEC Part 375 Commercial Use SCOs with the exception of Floor 1. PCE was documented in Floor 1 at a concentration of 170,000 µg/kg exceeding NYSDEC Part 375 Commercial Use SCOs (150,000 µg/kg). The location of the soil sample exceeding NYSDEC Part 375 Commercial Use SCOs is depicted on Figure 3. Additional details related to post IRM Excavation soil sampling is detailed within Section 4.4.1.

### 3.1.2 Sub-Slab Depressurization System

A SSDS was installed with the Site Building in accordance with the USEPA 402-L-03-007 (May 2006) and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006. Installation and continuous operation of the SSDS within the Site Building was completed by Mitigation Tech on March 24, 2020. A copy of the June 17, 2020 SSDS Construction Completion Report is included within Appendix F. The primary objective of the SSDS was to mitigate potential intrusion of CVOC vapors that could migrate into occupied space from beneath the Site Building slab (AOC #1). This mitigation is

achieved by maintaining a negative pressure of at least 0.004 water column inches (wci) below the Site Building slab relative to the air pressure above the slab.

Preliminary sub-slab air communication testing was performed October 3, 2019 as part of a general assessment of the scope of work. The communication testing procedure included drilling core borings into the concrete at likely suction cavity locations, at which vacuum was temporarily applied. Small diameter test holes were established to measure vacuum influence away from core boring locations. It was determined that a multi-fan system with multiple suction points could best provide comprehensive coverage.

Work began with confirmation of feasible and appropriate locations for fans, suction cavities and other SSDS components. Work was coordinated with Site Building as-built plans to minimize disturbance of future, potential equipment placement and operations. Work occurred over an extended period of time to accommodate general construction schedule. Vacuum testing was performed continuously during construction to determine the most efficient system configuration and verify integrity of design. At commissioning, all components were inspected for condition and proper operation was confirmed.

Subsequent to installation of the SSDS, Post SSDS Construction Air Sampling was conducted. Details related to Post SSDS Construction Air Sampling is included in Section 4.4.3. Figure 5 depicts the locations of all investigative air sampling points collected throughout the Site over the course of the investigations completed at the Site.

Based on the laboratory results from the Post SSDS Construction Air Sampling, no analytes were detected at concentrations exceeding NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and Soil Vapor/Indoor Air Matrix Tables Addendum dated May 2017, with the exception of TCE within indoor air samples ID2-A [3.27 micrograms per cubic meter ($\mu g/m^3$)], ID3-A [2.56 $\mu g/m^3$], and ID4-A [2.81 $\mu g/m^3$] at the north/northwest end of the Site Building. Air sampling results are included within Table 3. Refer to Section 3.2.4 for details related to additional IRM activities performed to mitigate the TCE identified within indoor air samples ID2-A, ID3-A, and ID4-A.

### 3.1.3 Enhanced Reductive Dechlorination Injections

Following completion of the IRM excavation, limited residual subsurface CVOC (dry cleaning solvent)-impacted soil remained beneath the limits of the IRM Excavation. In addition, limited CVOC-impacted groundwater appeared to be present downgradient of the IRM Excavation within groundwater monitoring well MW-12. Groundwater quality met TOGS 1.1.1 AWQS at nearby but slightly more distant downgradient wells MW-8 and MW-15. The remaining soil and groundwater impacts were primarily associated with elevated levels of PCE.

The purpose of the Enhanced Reductive Dechlorination Injections was to address the CVOC impacted soil and groundwater located proximate to the IRM Excavation, and thereby, further reduce the potential for the residual CVOC impacted groundwater to migrate off-site and beyond downgradient wells MW-8 and MW-15 along the west Site boundary, by injecting a mixture of Anaerobic BioChem and Zero Valent Iron (ABC+) to provide enhanced reductive dechlorination of the remaining subsurface solvent and its degradation constituents beneath the IRM Excavation and proximate to the west exterior wall of the Site Building. Two groundwater sampling events were completed (one prior to, and one subsequent to, injection completion) and included collection of groundwater samples from groundwater monitoring wells MW-12 and MW-15.

Starting on May 4, 2020, a total of 20 source area injections were advanced within a 50 foot by 50 foot plot centered on the source area (IRM Excavation and Floor 1/SB-40) spaced on a grid approximately 10 feet apart. An additional four source area injections were advanced to the west exterior of the Site Building proximate the IRM Excavation and bracketing MW-12. The injection locations are depicted in Figure 4. Each source area injection location was advanced with a 1.5-inch diameter direct-push injection point to reach a target depth of approximately 30 ft bgs. Once the target depth was reached, an expendable point was released from the end of the geoprobe and the ABC+ mixture was introduced at each injection location from the bottom of the injection location upwards at two-foot increments as the geoprobe equipment was extracted. Care was taken to monitor the shallow backfill material in the IRM Excavation area to prevent it from becoming a preferential outlet. This was accomplished by gauging/sounding the injection material as the injections were ongoing. It should be noted that this method of direct push injections did not generate any soil cuttings or waste water requiring later, proper off-site disposal.

Proximate to the two wells that never showed CVOC contamination, MW-8 and MW-15, a total of 13 injection locations were advanced in two offset rows along a 50 foot transect spaced on a grid approximately 10 feet apart proximate the west exterior of the Site Building and the western property line to create a barrier of ABC+ between the known CVOC contamination and the adjoining property. The downgradient injection locations are depicted in Figure 4. Each downgradient injection location was advanced a 1.5-inch diameter direct-push injection point to reach a target depth of approximately 30 ft bgs. Once the target depth was reached, an expendable point was released from the end of the geoprobe and the ABC+ mixture was introduced at each injection location from the bottom of the injection location upwards at two-foot increments as the geoprobe equipment was extracted. As continued installation of downgradient injection points occurred, daylighting was observed on the west adjacent property just past the Site Boundary. As a result, the NYSDEC conducted an inspection at the Site to observe this migration of material onto the west adjacent property. It was decided that select injection points (IPD-10 through IPD-13) in the downgradient area would not be injected with the ABC+ solutions above 10 ft bgs. Additionally, a reduction was made in the total volume of ABC+ mixture injected per interval from 13 gallons to 10 gallons; however, the concentration of ABC+ was increased accordingly in each of the 10 gallons injected. Per Redox, this reduction should not compromise the effectiveness of the ABC+ Solution as a barrier. A total of approximately 7,870 gallons of ABC+ mixture was injected between the Source and Downgradient areas.

Good housekeeping practices were followed to prevent leaving material on the ground surface (e.g., precautions were taken to prevent impacts to the ground surface due to material spilled from the drilling or injection equipment). Any material that did inadvertently drip or spill onto the ground surface was promptly picked up and placed in an appropriate location.

Details related to post Enhanced Reductive Dechlorination Injection groundwater sampling is detailed within Section 4.4.2.

### 3.1.4 Epoxy Floor Covering, Vent Closure, and P-Trap Wetting

Subsequent installation of the SSDS, post SSDS construction indoor air samples ID2-A, ID3-A, and ID4-A collected from the north and central portions of the Site Building identified TCE concentrations slightly exceeding the NYSDOH Table 3.1, August 2015 revision TCE indoor

air guideline value of 2 µg/$m^3$. Additional assessment of the Site conditions revealed the following.

1. Screening the concrete floor surface within the north portion of the Central Warehouse and Utility Room identified residual TCE and PCE concentrations. The existing epoxy floor coating within the Central Warehouse of the Site Building was heavily damaged and in poor condition. It was concluded that that volatilization of the residual TCE and PCE contained within the concrete floor is the likely source of and/or contributor to, the indoor air impact identified within the post SSDS construction indoor air samples.
2. A wall mounted "vent" was allowing free air exchange between north portions of the Site Building (Utility Room and the immediately adjacent Office Kitchen/Breakroom located within the office portion of the Site Building).
3. Floor drain and fixtures (toilets, sinks, urinals) located within the north portion of the Site Building (Office) were potentially a source or contributor of contaminants within the Office indoor air. Evaluation of the P-traps associated with the floor drains, sinks, and toilet fixtures were "dry" allowing for free exchange of air between the floor drains/fixtures and indoor air.

It should be noted that details and assessment methods related to the above are described within the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025.

Below is a summary of the IRMs implemented to address the above.

## Epoxy Floor Covering

Removal and replacement of the existing damaged epoxy floor covering was completed on November 22 and November 23, 2021. This included an area of approximately 3,100 square feet ($ft^2$) within the north portion of the Central Warehouse and Utility Room. The dimensions of the 3,100 $ft^2$ area of the floor that was treated were established based on the results of the TCE Indoor Air Source Evaluation detailed with the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025, while also extending the footprint of the epoxy floor to the south and east to match existing concrete floor expansion joints. Removal of the existing epoxy floor and application of the new epoxy floor was completed by Martens Specialty Flooring (Martens). The scope of work included removal of an existing floor coating by diamond grinding and installing a high quality two part epoxy floor coating. CAMP monitoring was performed during the floor grinding activities and results are included in Appendix D.

Preparation of the existing floor was necessary to remove the damaged existing epoxy coating and to provide a clean substrate capable of properly bonding with the new two layer epoxy coating. A diamond grinder was utilized to remove the existing epoxy coating and smooth any irregularities in the existing floor. During the removal of the existing floor coating, dust was managed with a collection unit attached to the grinding machine. Every effort to efficiently collect and minimize dust was made. Dust was handled as general construction waste and disposed of properly. Cracks and large surface deviations were filled and leveled with an epoxy mortar to ensure the new floor coating was level and will resist cracking under normal conditions. The floor coating commenced on November 25, 2021. A two-step coating process was implemented and consisted of coating the floor with one coat of Sherwin Williams Resuprime 3830 and one coat of Sherwin Williams Resuflor 3569. Resuprime 3830 coating is a two part fast curing epoxy resin engineered to withstand vapor emissions. The topcoat consisted of Resuflor 3569 which is a low VOC LEED compliant two

part multipurpose epoxy coating. The Resuflor 3569 is suitable for use in United States Department of Agriculture facilities.

Any penetrations in the floor surface (i.e. utility, etc.) were sealed during the application of the new epoxy floor. One utility trench located within the Utility Room and one trench drain located within the Central Warehouse were cleaned, filled with concrete, and covered with the new epoxy coating. The extent of the epoxy floor coating is detailed within Figure 7.

#### Vent Closure

A qualified contractor was retained to remove the vent and permanently close the opening between the Utility Room and the adjacent Office Kitchen/Breakroom located within the office portion of the Site Building.

#### P-Trap Wetting

One week prior to post-IRM Indoor Air Sampling detailed in Section 4.4.3, approximately two gallons of water was discharged to each floor drain/fixture to ensure P-Traps were maintained in a wet condition. In addition, approximately two gallons of water was discharged to each floor drain/fixture to ensure P-Traps maintained a wet condition on the date post-IRM Indoor Air Sampling was completed.

### 3.2 Operable Units

There are no operable units associated with this Site.

### 3.3 Remedial Contracts

No separate remedial construction contracts were associated with the Site.

## 4.0 DISCRIPTION OF REMEDIAL ACTIONS PERFORMED

All remedial activities at the Site were completed as IRMs. Details related to each IRM are summarized in Section 3.0 above.

### 4.1 Governing Documents

Interim Remedial Measures were completed in accordance with NYSDEC-approved IRM workplans detailed within Section 3.1 above. No significant deviations from the IRM workplans occurred. A HASP and CAMP were developed associated with each IRM and are included within the IRM workplans included in Appendix C. All remedial work performed was designed to comply with governmental requirements, including site worker requirements mandated by OSHA, and DER-10.

#### 4.1.1 Site Specific Health & Safety Plan

A HASP is included in the Appendices of each IRMWP approved by the NYSDEC. Each site-specific HASP was prepared in accordance with 40 CFR 300.150 of the NCP and 29 CFR 1910.120. The HASP included the following site-specific information:

- A hazard assessment
- Training requirements
- Definition of exclusion, contaminant reduction, and other work zones
- Monitoring procedures for Site operations

- Safety procedures
- Personal protective equipment requirements for various field operations
- Disposal and decontamination procedures

Each HASP also included a contingency plan to address potential site-specific emergencies. Health and safety activities were monitored throughout the remedial activities. A member of the field team was designated to serve as the SSHO throughout the field program. This person reported directly to the Project Manager and the Corporate Health and Safety Coordinator.

### 4.1.2 Community Air Monitoring Plan

Each CAMP is included as an appendix of each applicable IRM workplan approved by the NYSDEC. Each CAMP included the performance of real-time community air monitoring during intrusive remedial activities at the Site. Particulate monitoring was performed along the downwind perimeter of the work area during subgrade excavation, grading, and soil/fill handling activities in accordance with the CAMP. Particulate monitoring was performed during time periods where the potential for project-related traffic travelling directly over soil containing residual contamination to create dust existed, and during the grinding of the deteriorated epoxy surface. The CAMP is consistent with the requirements for community air monitoring at remediation sites as established by the NYSDEC and NYSDOH. Accordingly, it follows procedures and practices outlined under NYSDOH's Generic Community Air Monitoring Plan dated June 20, 2000, and NYSDEC TAGM 4031: Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites.

## 4.2 Remedial Program Elements

### 4.2.1 Contractors and Consultants

Below is a summary of contractors and consultants who participated in the implementation of the remedial program IRMs.

1. LaBella Associates, D.P.C. (LaBella) – Remedial construction oversight and environmental monitoring
2. Mitigation Tech – SSDS contractor
3. LaBella Environmental, LLC (LaBella LLC) – Environmental contractor
4. Redox Tech LLC – Environmental contractor
5. Pariso Logistics – Waste hauler
6. Laidlaw Carriers Bulk GP Inc. – Waste hauler
7. Peter Hodge LTD – Waste Hauler
8. The Environmental Service Group – Waste hauler and environmental contractor
9. New Enterprises Stone & Lime Co., Inc. – Stone fill provider and hauling contractor
10. Engasser Construction – Concrete contractor
11. GPRS, Inc. – Utility locating contractor
12. Martens Specialty Flooring – Epoxy flooring contractor
13. Alpha Analytical Laboratories – Laboratory

### 4.2.2 Site Preparation

Generally, Site preparation activities were limited to marking of public and private utilities prior to work requiring subsurface disturbance. Mobilization to the Site primarily occurred on

a task by task basis. Pre-construction meetings were held on an as needed basis. No special permits or approvals were required.

### 4.2.3 General Site Controls

Site controls were completed in accordance with the IRM workplans and are generally limited to the following.

- Records, such as daily reports, and documentation, such as waste manifests, stone and backfill receipts, recycling documentation, etc. were maintained by LaBella.
- Equipment was decontaminated as necessary. Decontamination waste comprised of soil and liquid waste generated associated with the project was handled and disposed of properly in accordance with all applicable law.

### 4.2.4 CAMP Results

Continuous community air monitoring was performed during all ground intrusive activities. No exceedances of the CAMP action levels were recorded during the course of the field activities. The spread of dust and dirt did not occur during the implementation of field activities. Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix D.

### 4.2.5 Reporting

Daily reports were prepared on-site and identified the contractors and equipment present, any visitors, and the work performed that day. All daily reports are included in electronic format in Appendix E.

## 4.3 Contaminated Materials Removal

Contaminated materials removed from the Site were limited to the following generated during advancement of the IRM Excavation detailed in Section 3.1 above.

### 4.3.1 Soil

<u>Contained-In Determination & Waste Characterization</u>

Prior to commencement of IRM excavation activities, LaBella prepared a Contained-In Determination Work Plan dated April 4, 2019 (with subsequent email correspondence between the NYSDEC and LaBella, dated April 18, 2019) to characterize the soil waste generated during the IRM excavation at AOC #2. As part of the Contained-In Determination, soil excavated from the limits of AOC #2 was temporarily staged proximate to the east exterior of the Site Building and separated into four piles between May 29 and June 5, 2019. Based on previous soil laboratory data submitted by LaBella and subsequently reviewed by the NYSDEC, soil collected from within the confines of the IRM excavation depicted on Figure 3 through Figure 5, from approximately 0-2 ft bgs in the vicinity of previously-advanced soil borings SB-17, SB-24 and SB-25, was staged separately for disposal as hazardous waste in Stockpile 4. Soil generated from the remainder of the IRM excavation was segregated into three individual piles (Stockpiles 1 through 3) and was the subject of this "Contained-In" Determination. Soil samples were collected from the stockpiles in accordance with DER-10 and submitted for the following laboratory analysis as follows.

- Stockpile 1 – One discrete sample from 2.5 ft below the surface of the pile for TCL VOCs using USEPA Method 8260 and TCLP Total VOCs using USEPA Method 1311

- Stockpile 2 – One discrete sample from 3.0 ft below the surface of the pile for TCL VOCs using USEPA Method 8260 and TCLP Total VOCs using USEPA Method 1311
- Stockpile 3 – One discrete sample from 2.0 ft below the surface of the pile for TCL VOCs using USEPA Method 8260 and TCLP Total VOCs using USEPA Method 1311
- One composite sample from Stockpiles 1 through 3 for TCLP SVOCs using USEPA Method 1311, metals using USEPA Method 1311, flashpoint using USEPA Method 1030, reactivity using USEPA Method 7.3, and, corrosivity using USEPA Method 9045

The results of the sampling are summarized in the June 10, 2019 Contained-In Determination report which is attached in Appendix I. Figure 2 of that report depicts the location and designation of the stockpiles. Based on the results of the Contained-In sampling, the NYSDEC concluded the following as summarized within the Department's June 21, 2019 letter.

- Stockpiles 1 and 2 were permitted for disposal as non-hazardous waste while Stockpile 3 was to be disposed of as hazardous waste; in addition to the Stockpile 4 already-deemed hazardous waste.

Copies of the Contained-In Determination work plan, report and NYSDEC approval letter are included in Appendix I.

Non-Hazardous Soil Disposal

Approximately 99 tons of non-hazardous soil (Stockpiles 1 and 2) was loaded in dump trucks by Pariso Logistics and transported to Waste Management Chaffee Landfill in Chaffee, New York for disposal. Copies of the disposal receipts and manifest documentation are included in Appendix J.

Hazardous Soil Disposal

Approximately 117.46 tons of hazardous soil (stockpiles 3 and 4) was loaded into semi-trucks by Laidlaw Carriers Bulk GP Inc. and Peter Hodge LTD, and transported to Horizon Environmental Inc. in Quebec, Canada for disposal. Copies of the disposal receipts and manifest documentation are included in Appendix J.

### 4.3.2 Groundwater

As a result of groundwater infiltration within the IRM Excavation during excavation efforts, groundwater was pumped as needed from the excavation and placed into a portable 250-gallon plastic storage tote stored on-site. The groundwater within the tote was analyzed for waste characterization purposes and subsequently transported off-site as non-hazardous waste by The Environmental Service Group, Inc. (ESG) for proper disposal. Approximately 160 gallons of groundwater was processed. Groundwater disposal receipts are included within Appendix J.

## 4.4 Remedial Performance/Documentation Sampling

Below is a summary of Remedial Performance/Documentation Sampling related to IRM activities detailed within Section 3.0. For additional detail related to the sampling performed, please refer to the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025.

### 4.4.1 Subsurface Soil

Based on the collective RI and IRM subsurface post remedial soil samples collected, no analytes were detected at the Site exceeding NYSDEC Part 375 Commercial Use SCOs with the exception of PCE detected in IRM documentation soil sample Floor 1 and the RI soil sample collected from soil boring SB-40 (15-16 ft bgs). Prior to implementation of the ABC+ Injection IRM, PCE exceeding the NYSDEC Part 375 Commercial Use SCO of 150,000 µg/kg was detected within Floor 1 at a concentration of 170,000 µg/kg, and within SB-40 (15-16 ft bgs) at a concentration of 310,000 µg/kg. A second soil sample collected from soil boring SB-40 (23-24 ft bgs) identified PCE at a concentration of 82,000 µg/kg which is well below the Part 375 Commercial Use SCO value of 150,000 µg/kg. It should be noted that the soil sample collected from Floor 1 was collected from approximately 10 ft bgs, and soil boring SB-40 was advanced through the IRM excavation immediately proximate the location of Floor 1 to evaluate the vertical extent of the PCE impact proximate Floor 1. Laboratory analysis of soil samples collected from beyond the limits of the IRM Excavation from soil borings SB-14, SB-19 though SB-22, SB-28, and SB-41 through SB-45 generally exhibited results below the laboratory method detection limits for PCE, or PCE at concentrations significantly below NYSDEC Part 375 Commercial Use SCOs [the maximum PCE concentration was 360 µg/kg (which is below the Unrestricted Use SCO of 1,300 ug/kg) in the soil sample collected from SB-45 (21-22 ft bgs)].

No sample found an on-site subsurface soil impact extending off-site, north-northwest downgradient from the IRM Excavation area, or anywhere proximate the west Site Boundary. As such, the vertical and horizontal extent of the PCE impact identified proximate Floor 1 and SB-40 appears to be highly localized to the area directly beneath the location of the former dry-cleaning machine.

### 4.4.2 Groundwater

The CVOCs PCE, TCE, c12-DCE, and VC were detected within groundwater samples collected from groundwater monitoring well MW-12 in March 2019, July 2019, May 2020, and August 2020, at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS. Those CVOCs were not detected at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS in any other well. MW-12 is located directly downgradient and adjacent to the IRM Excavation. Groundwater samples collected from MW-12 exhibited a peak total CVOC concentration of 3,932 µg/l in July 2019. Subsequent to completion in May 2020 of the ABC+ amendment injection IRM activities, total CVOC concentrations in the groundwater sample collected from MW-12 decreased to 864 µg/l. As such, it appears that IRM activities have successfully reduced the concentrations of CVOCs present within groundwater in MW-12. It should be noted that CVOC concentrations, in the groundwater samples collected from MW-8 and MW-15 located immediately north-northwest and downgradient of MW-12 have never exceeded NYSDEC TOGS 1.1.1 AWQS. In fact, no CVOCs have been detected at MW-15 and the maximum total CVOC concentration at MW-8 was 0.89 µg/l. As such, it appears that the source of the CVOC in groundwater has been addressed, and the remaining groundwater impact is highly localized proximate MW-12, has not migrated off-site, and CVOC groundwater concentrations should continue to decrease.

### 4.4.3 Indoor Air/Sub-Slab Soil Vapor

<u>Post SSDS Construction Air Sampling</u>

Subsequent to installation of the SSDS on March 24, 2020, five indoor air samples (ID1-A through ID5-A) were collected within the Site Building and one outdoor ambient air sample

(OD3) was collected from an upwind location, northwest exterior of the Site Building on September 14, 2020. The indoor air samples were collected proximate the same locations where previous indoor air and sub-slab soil vapor samples were collected within the Site Building in August and October 2017. Figure 4 depicts the locations of all investigative air sampling points collected throughout the Site over the course of investigations conducted at the Site.

Based on the laboratory results from the September 14, 2020 air sampling event, no analytes were detected at concentrations exceeding NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006, Table 3.1 (revised September 2013 and August 2015) within indoor air samples collected from ID1-A, ID2-A, ID3-A, ID4-A, and ID5-A, with the exception of TCE within indoor air samples ID2-A [3.27 µg/m$^3$], ID3-A [2.56 µg/m$^3$], and ID4-A [2.81 µg/m$^3$] at the north/northwest end of the Site Building. As such, it appears that the IRMs detailed within Section 3.1.1 and 3.1.2 were successful in mitigating soil vapor intrusion within the Site Building, with the exception of TCE within the north portion of the Site Building located proximate indoor air sampling locations ID2-A, ID3-A, and ID4-A. Air sampling results are included within Table 3.

Details related to air sampling performed subsequent the supplemental IRMs are summarized below.

## Post Floor Coating and P-trap Wetting IRM Air Sampling

Following the installation of the new epoxy floor covering, filling of the trench located within the Utility Room and the trench drain located within the Central Warehouse, permanent closure of the vent, and wetting of the P-Traps, post IRM indoor air samples were collected on January 12, 2022 to evaluate the effectiveness of the collective IRMs.

Three indoor air post IRM samples, ID-2B, ID-3B, and ID-4B, were collected from locations consistent with prior indoor air samples ID2-A, ID3-A, and ID4-A. One ambient outdoor air sample (OD-4) was collected from location upwind of the Site Building. Figure 5 shows the locations of the air samples. A NYSDOH Indoor Air Quality Questionnaire and Building Inventory was completed in accordance with NYSDOH Guidance Document for the portions of the Site included in the assessment and is included in Appendix 1. The observed conditions of the Office area were similar to previous events. The southern portion of the Central Warehouse, however, was now occupied by an auto repair shop, and chemicals were present that are typical in auto repair shop operations, including CVOCs.

Based on the laboratory results, TCE was not detected at concentrations exceeding the laboratory method detection or reporting limits within any of the post IRM air samples. Post IRM Sampling results are summarized in Table 3 and a copy of the laboratory results are included within Appendix 2. As such, it appears that the IRMs detailed within Section 3.1 were successful in mitigating indoor air concentrations of TCE within the north portion of the Site Building.

## Change In Use Air Sampling

In September 2021, a truck repair tenant began occupancy of the southern portion of the Site Building (the remainder of the Site Building remains unoccupied). The approximate portion of the Site Building occupied by the truck repair tenant is depicted within Figure 6. Due to the change in occupancy, at the request of the NYSDEC, additional air sampling was completed within the truck repair tenant space, which included tasks to inventory chemicals

in-use or stored within the truck repair tenant space, and inspection and maintenance of the SSDS between November 2022 and March 2023. On March 26, 2023, sub-slab soil vapor sample SS5-C and indoor air samples ID5-C and ID6-C were collected from within the truck repair tenant space portion of the Site Building. No analytes were detected within indoor air samples ID5-C or ID6-C at concentrations exceeding NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006 and Soil Vapor/Indoor Air Matrix Tables Addendum dated May 2017, with the exception of PCE detected at a concentration of 132 µg/m$^3$ and 94.9 µg/m$^3$ respectively. As indoor air sampling data collected from the south portion of the Site Building (i.e., in the current tenant space) showed a trend of decreasing PCE concentrations in 2020 subsequent to the installation/activation of the SSDS, and an increase in PCE concentrations subsequent to the occupancy of the area by the truck repair tenant, it was concluded that the primary source of the PCE identified within the March 26, 2023 indoor air sampling is the result of tenant's active use and storage of products that have been confirmed to contain PCE (Chlorinated Brakleen), and other products that may contain, or are likely to contain, PCE.

For additional detail related to the Change In Use Air Sampling tasks performed, please refer to the Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated February 7, 2025.

## 4.5 Imported Backfill

Backfill imported to the Site was limited to approximately 191 tons of #2 crusher run stone sourced from New Enterprise Stone & Lime Co., Inc. in Buffalo, New York used to backfill the IRM Excavation detailed in Section 3.1.1. A NYSDEC Request to Import form was submitted to NYSDEC for this material on June 3, 2019 and subsequently approved. Copies of the backfill tickets and the NYSDEC Import Request are included Appendix G.

## 4.6 Contamination Remaining at the Site

Contamination remaining at the Site is limited to the following.

### 4.6.1 Subsurface Soil

As is detailed within Section 3.1.1 and 4.1.1 above, highly localized PCE soil impact exceeding NYSDEC Part 375 Commercial Use SCO may remain immediately proximate to documentation soil sample Floor 1 and soil boring SB-40 between approximately 10 ft bgs to approximately 16 ft. bgs, depending on the effectiveness of the ABC+ injections.

### 4.6.2 Groundwater

Below is a summary of the groundwater samples collected from the Site which exhibited analyte concentrations exceeding their respective SCG.

Acetone was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 50 µg/l.

- MW-2 (6/12/2017) – 110 µg/l
- MW-4 (6/12/2017) – 63 µg/l
- MW-5 (6/12/2017) – 58 µg/l
- MW-6 (6/12/2017) – 76 µg/l
- MW-7 (6/12/2017) – 62 µg/l
- MW-12 (3/1/2019) – 58 µg/l

- MW-12 (8/4/2020) – 63 µg/l
- MW-13 (2/28/2019) – 280 µg/l

Benzene was detected in the groundwater sample from the deep well, MW-15, at a concentration exceeding the Groundwater SCG of 1 µg/l.

- MW-15 (8/4/2020) – 3.2 µg/l

c12-DCE was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 5 µg/l.

- MW-12 (7/9/2019) – 470 µg/l
- MW-12 (5/4/2020) – 930 µg/l
- MW-12 (8/4/2020) – 420 µg/l

Methyl ethyl ketone (MEK) was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 50 µg/l.

- MW-12 (8/4/2020) – 100 µg/l
- MW-15 (8/4/2020) – 170 µg/l

PCE was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 5 µg/l.

- MW-12 (3/1/2019) – 1,000 µg/l
- MW-12 (7/9/2019) – 2,500 µg/l
- MW-12 (5/4/2020) – 1,200 µg/l
- MW-12 (8/4/2020) – 370 µg/l

TCE was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 5 µg/l.

- MW-12 (3/1/2019) – 19 µg/l
- MW-12 (7/9/2019) – 950 µg/l
- MW-12 (5/4/2020) – 480 µg/l
- MW-12 (8/4/2020) – 52 µg/l

VC was detected in the following groundwater samples at concentrations exceeding the Groundwater SCG of 2 µg/l.

- MW-12 (3/1/2019) – 2.3 µg/l
- MW-12 (7/9/2019) – 12 µg/l
- MW-12 (5/4/2020) – 25 µg/l
- MW-12 (8/4/2020) – 22 µg/l

Total PFOS was detected within the groundwater sample collected from MW-13 at a concentration of 10 nanograms per liter (ng/l) slightly exceeding the Groundwater SCG of 6.7 ng/l.

1,4-dioxane was detected within the groundwater sample collected from MW-12 at a concentration of 929 ng/l, exceeding the Groundwater SGC of 350 ng/l.

### 4.6.3 Soil Vapor Intrusion

As CVOC impacted soil remains proximate to Floor 1 and SB-40, CVOC impacted groundwater remains proximate MW-12, and soil vapor intrusion sampling within the Site Building prior to IRM construction identified CVOCs in both indoor air and sub-slab soil vapor samples at concentrations requiring mitigation when compared to NYSDOH Soil Vapor Intrusion guidance, it is expected that soil vapor contamination remains beneath the footprint of the Site Building. It should be noted that no analytes were detected outside of the Site Building within the soil vapor samples collected as part of the RI (SV-1 through SV-4) at concentrations above NYSDOH 2006 Guidance Soil Vapor/Indoor Air Matrix Tables A through C (addendum May 2017), which suggests that soil vapor impact does not extend to portions of the Site beyond the immediate vicinity of the Site Building.

## 4.7 Engineering Controls

Institutional and Engineering Controls are required to protect human health and the environment. The 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.

### 4.7.1 Cover System

Exposure to remaining CVOC contamination in soil at the Site proximate Floor 1 and SB-40 is prevented by the concrete building slab. The cover system at the Site consists of the concrete floor within the footprint of the IRM Excavation. Figure 3 shows the location of the IRM excavation area and the location of the cover system. Figure 8 shows the location of the cover system. 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 an Appendix of the SMP.

### 4.7.2 Sub-Slab Depressurization System & Epoxy Floor

An active SSDS was installed throughout the Site Building to prevent CVOC soil vapor intrusion into the structure. In addition, a new epoxy floor was installed within the north portion of the Central Warehouse and Utility Room. The SSDS and epoxy floor will be inspected at defined, regular intervals in accordance with the SMP and will remain active.

## 4.8 Institutional Controls

Standard institutional controls will be implemented, including a Site Management Plan (SMP) incorporating an Excavation Work Plan, Soil & Groundwater Management Plan, a Soil Vapor Intrusion Evaluation plan (for any new buildings) and an Engineering and Institutional Control certification requirement developed and enforced through the Environmental Easement. The Environmental Easement restricts use of the Site to commercial / industrial applications and precludes groundwater use without treatment. The Environmental Easement runs with the deed and includes the following requirements.

1. The property use will be restricted commercial use, or less stringent uses.
2. The cover system will remain in place.
3. A Soil & Groundwater Management Plan will be implemented for all invasive activities at the Site.

4. Groundwater monitoring would be required on an annual schedule as part of the SMP.
5. The use of groundwater without treatment and New York State Department of Health approval will be prohibited.
6. The SSDS will be active, and periodically inspected and maintained.
7. Annual certification that institutional and engineering controls will be required.

The environmental easement for the Site was executed by the Department on December 5, 2019, and filed with the Erie County Clerk on December 12, 2019. The County Control number for this filing is 2019275208. A copy of the easement and proof of filing is provided in Appendix H.

## 4.9 Deviations from the Remedial Action Work Plan

Remedial work for the Site were completed under IRMs detailed with Section 3.0. No significant deviations were made from the approved IRM Work Plans.

Tables

Table 1

11075 Walden Avenue

Alden, NY

Summary of Interim Remedial Measures Excavation Confirmatory Soil Analytical Results

(Detected Analytes Only)

| Sample ID | Sidewall 1 | Sidewall 2 | Sidewall 3 | Sidewall 4 | Sidewall 5 | Sidewall 6 | Floor 1 | Floor 2 | DUP | Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | 2 | 3 | 2.5 | 1.5 | 1 | 2.5 | 10 | 4 | * | |
| Sample Date | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | |
| **Volatile Organic Compounds ( µg/kg)** | | | | | | | | | | |
| Acetone | < | < | < | 75 | < | < | < | < | < | 500,000 |
| cis-1,2-Dichloroethene | 30 J | 130 | 1,000 | 120 | 150 | 120 | < | 82 | 3,000 | 500,000 |
| trans-1,2-Dichloroethene | < | < | 21 J | 5.8 | 11 J | < | < | < | 110 | 500,000 |
| Methyl Acetate | 120 J | < | < | 4.5 | 90 J | < | < | 42 J | 350 | NL |
| Methyl ethyl ketone (2-Butanone) | < | < | < | 14 | < | < | < | < | < | 500,000 |
| Tetrachloroethene | 300 | 20,000 | 4,800 | 11 | 2,200 | 3,300 | 170,000 | 4,300 | 490 | 150,000 |
| Trichloroethene | 76 | 360 | 480 | 0.36 | 100 | 91 | 250 J | 55 | 15 J | 200,000 |
| Vinyl Chloride | < | < | 240 | 2 | < | < | < | < | < | 13,000 |

Commercial Use SCOs = New York State Department of Environmental Conservation (NYSDEC) Part 375 Commercial Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December, 2006)

< = Not detected

NL = Not listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

ft bgs = Feet below ground surface

µg/kg = Micrograms per kilogram

Concentrations in gray exceed Commercial Use SCOs

* = The "DUP" sample was collected as field duplicate of an IRM excavation confirmatory soil sample; however, records that would reveal the source confirmatory soil sample from which the "DUP" sample originated have not been located by LaBella.

Table 2
11075 Walden Avenue
Alden, New York
Groundwater Samples Exhbiting Exceedances
(Detected Analytes Only)

| Sample ID | MW-12 | MW-12 | MW-12 | MW-12 | MW-15 | NYSDEC TOGS |
|---|---|---|---|---|---|---|
| Sample Date | 3/1/2019 | 7/9/2019 | 5/4/2020 | 8/4/2020 | 8/4/2020 | |
| **Volatile Organic Compounds (µg/L)** | | | | | | |
| Acetone | 58 | < | < | 63 | 43 | 50 |
| 1,1-Dichloroethene | < | < | < | 2 | < | 5 |
| Benzene | < | < | < | < | 3.2 | 1 |
| Carbon Disulfide | < | < | < | < | < | NL |
| Cyclohexane | < | < | < | < | < | NL |
| cis-1,2-Dichloroethene | < | 470 | 930 | 420 | < | 5 |
| 2-Hexanone | < | < | < | < | < | 50 |
| Methyl Acetate | < | < | < | < | 1.2 J | NL |
| Methylcyclohexane | < | < | < | < | < | NL |
| Methyl ethyl ketone (2-Butanone) | < | < | < | 100 | 170 | 50 |
| Tetrachloroethene | 1,000 | 2,500 | 1,200 | 370 | < | 5 |
| Toluene | < | < | < | < | < | 5 |
| Trans1-2,-Dichloroethene | < | < | 7.3 J | < | < | 5 |
| Trichloroethene | 19 | 950 | 480 | 52 | < | 5 |
| Vinyl Chloride | 2.3 J | 12 J | 25 | 22 | < | 2 |
| **Semi-Volatile Organic Compounds (µg/L)** | | | | | | |
| Acetophenone | 2.2 J | NA | NA | NA | NA | NL |
| Anthracene | 0.02 J | NA | NA | NA | NA | 50 |
| Benzo(b)fluoranthene | < | NA | NA | NA | NA | 0.002 |
| Benzo(k)fluoranthene | 0.01 J | NA | NA | NA | NA | 0.002 |
| Benzo(g,h,i)perylene | < | NA | NA | NA | NA | NL |
| Benzo(a)pyrene | < | NA | NA | NA | NA | NL |
| Benzaldehyde | 1.4 J | NA | NA | NA | NA | NL |
| Di-n-butylphthalate | < | NA | NA | NA | NA | 50 |
| Bis(2-ethylhexyl)phthalate | < | NA | NA | NA | NA | 5 |
| Fluoranthene | < | NA | NA | NA | NA | 50 |
| Fluorene | 0.3 | NA | NA | NA | NA | 50 |
| Indeno(1,2,3-cd)pyrene | < | NA | NA | NA | NA | 0.002 |
| 3-Methylphenol/4-Methylphenol | 0.95 J | NA | NA | NA | NA | NL |
| 2-Methylnaphthalene | 0.51 | NA | NA | NA | NA | NL |
| Naphthalene | 0.19 | NA | NA | NA | NA | 10 |
| Phenanthrene | 0.74 | NA | NA | NA | NA | 50 |
| Phenol | 3 J | NA | NA | NA | NA | 1 |
| Pyrene | < | NA | NA | NA | NA | 50 |

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC), Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

< = Not detected

NL = Not listed

NA = Not analyzed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

µg/L = Micrograms per liter

Concentrations in gray exceed NYSDEC TOGS

**Table 3**
**11075 Walden Avenue**
**Alden, New York**
**Vapor Intrusion Analytical Results**
**(Detected Analytes Only)**

| Sample ID | SS1 | ID1 | ID1-A | SS2 | ID2 | ID2-A | ID2-B | SS3 | ID3 | ID3-A | ID3-B | SS4 | ID4 | ID4-A | ID4B | SS5 | SS5-C | ID5 | ID5-A | ID5-C | ID6-C | 0D1 | 0D2 | 0D3 | 0D4 | NYSDOH Table 3.1 Air Guidance Value [1] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | 8/3/2017 | 8/3/2017 | 9/14/2020 | 8/3/2017 | 8/3/2017 | 9/14/2020 | 1/12/2022 | 10/4/2017 | 10/4/2017 | 9/14/2020 | 1/12/2022 | 10/4/2017 | 10/4/2017 | 9/14/2020 | 1/12/2022 | 10/4/2017 | 3/26/2023 | 10/4/2017 | 9/14/2020 | 3/26/2023 | 3/26/2023 | 8/3/2017 | 10/4/2017 | 9/14/2020 | 1/12/2022 | |
| Location | Sub-Slab | Indoor Air | Indoor Air | Sub-Slab | Indoor Air | Indoor Air | Indoor Air | Sub-Slab | Indoor Air | Indoor Air | Indoor Air | Sub-Slab | Indoor Air | Indoor Air | Indoor Air | Sub-Slab | Sub-Slab | Indoor Air | Indoor Air | Indoor Air | Indoor Air | Outdoor Air | Outdoor Air | Outdoor Air | Outdoor Air | |
| **Volatile Organic Compounds (µg/m3)** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | < | 2.4 J | 2.27 | < | 2.2 J | 2.26 | NA | 2.8 J | 2.4 J | 2.3 | NA | 2.5 J | 2.5 | 2.25 | NA | < | 2.13 | 2.4 J | 2.37 | 2.67 | 2.64 | 2.1 J | 2.3 J | 2.11 | NA | NL |
| Ethanol | < | < | 10.7 | < | < | 10.5 | NA | < | < | 26.2 | NA | < | < | 18 | NA | < | 47.9 | < | 13.6 | 19.6 | 21.5 | < | < | < | NA | NL |
| Tetrahydrofuran | < | < | < | < | < | < | NA | < | < | < | NA | < | < | 1.52 | NA | < | 2.17 | < | 2.42 | < | < | < | < | < | NA | NL |
| Freon 22 | < | 9.9 | < | < | 6.7 | < | NA | 3.7 | 2.9 | < | NA | 3.7 | 3.2 | < | NA | < | < | 7.9 | < | < | < | 1 J | 0.97 J | < | NA | NL |
| Chloromethane | < | 1.1 | 1.09 | < | 1 J | 1.08 | NA | 1.1 J | 0.92 J | 1.11 | NA | 0.97 J | 1 J | 1.32 | NA | < | 1.07 | 0.99 J | 1.14 | 1.10 | 1.07 | 1.2 | 1.1 | 1.05 | NA | NL |
| n-Butane | < | 49 | < | 320 J | 36 | < | NA | 110 | 32 | < | NA | 100 | 35 | < | NA | 3,400 | < | 63 | < | < | < | 1.1 J | 1.4 | < | NA | NL |
| Trichlorofluoromethane | < | 1.3 | 1.46 | < | 1.2 | 1.43 | NA | 1.5 J | 1.4 | 1.46 | NA | 1.3 J | 1.4 | < | NA | < | 1.14 | 1.3 | 1.52 | 1.38 | 1.40 | 1 J | 1.3 | 1.37 | NA | NL |
| Freon TF | < | 0.39 J | < | < | 0.4 J | < | NA | 0.65 J | 0.58 J | < | NA | 0.58 J | 0.6 J | < | NA | < | < | 0.58 J | < | < | < | 0.36 J | 0.56 J | < | NA | NL |
| Acetone | < | 15 | < | < | 12 | < | NA | 100 | 9.78 J | < | NA | 87 | 18 | 29 | NA | 170 J | 18.4 | 10 J | < | 15.2 | 15.4 | 12 | 26 | 4.35 | NA | NL |
| Isopropyl alcohol | < | 0.94 J | < | < | 0.77 J | < | NA | 7.8 J | 1.2 J | < | NA | 2.4 J | 0.76 J | < | NA | < | 5.85 | 0.85 J | < | 1.60 | 1.77 | 0.64 J | 0.94 J | 1.88 | NA | NL |
| Carbon disulfide | < * | 0.24 J | < | 180 J | 0.22 J | < | NA | 3 J | 0.41 J | < | NA | 3.5 | 0.4 J | 1.02 | NA | 19 J | < | 0.089 J | < | < | < | < | 0.11 J | < | NA | NL |
| Methylene chloride | < | 0.47 J | < | < | 0.36 J | < | NA | 0.55 J | 0.37 J | < | NA | 0.57 J | 0.31 J | < | NA | < | 16.2 | 0.61 J | < | 2.40 | 2.25 | 0.36 J | 0.34 J | < | NA | 60 |
| n-Hexane | < | 1.9 | 1.36 | < | 1.5 | 1.56 | NA | 37 | 1.7 | 2.99 | NA | 38 | 1.8 | 2.65 | NA | 1,900 | 4.37 | 3.4 | 2.77 | 4.02 | 3.39 | < | < | < | NA | NL |
| Methyl Ethyl Ketone (2-Butanone) | < | 1.9 | < | < | 1.1 J | < | NA | 17 | 1.4 J | < | NA | 18 | 3.5 | 2.04 | NA | 23 J | 3.78 | 1.5 | < | 3.60 | 4.07 | 1.8 | 5.7 | < | NA | NL |
| cis-1,2-Dichloroethene | 91,000 | 2.2 | < | 6,700 | 1.2 | < | NA | 4.2 | 5.6 | < | NA | 3.5 | 5.6 | < | NA | < | < | 3.6 | < | < | 0.095 | < | < | < | NA | NL |
| 1,2-Dichloroethene, Total | 91,000 | 2.2 | < | 6,700 | 1.2 J | < | NA | 4.4 | 5.6 | < | NA | 3.4 | 5.6 | < | NA | < | < | 3.6 | < | < | < | < | < | < | NA | NL |
| Chloroform | < | < | < | < | < | < | NA | 0.52 J | < | < | NA | 0.8 J | < | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |
| 1,1,1-Trichloroethane | < | < | < | < | < | < | NA | 0.43 J | < | < | NA | 0.48 J | 0.14 J | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |
| Cyclohexane | < | 0.22 J | < | < | 0.17 J | < | NA | 11 | 0.17 J | < | NA | 16 | 0.2 J | < | NA | 2,200 | 2.21 | 0.44 J | < | 1.56 | 1.40 | < | < | < | NA | NL |
| Carbon tetrachloride | < | 0.39 J | 0.447 | < | 0.39 J | 0.396 | NA | 0.45 J | 0.41 J | 0.447 | NA | 0.34 J | 0.45 J | 0.434 | NA | < | < | 0.4 J | 0.491 | 0.491 | 0.497 | 0.39 J | 0.4 J | 0.415 | NA | NL |
| 2,2,4-Trimethylpentane | < | 0.24 J | < | < | < | < | NA | 1.2 J | 0.24 J | < | NA | 1.5 J | 0.22 J | < | NA | 23 J | 1.55 | 0.33 J | < | 1.86 | 1.72 | < | < | < | NA | NL |
| Benzene | < | 0.32 J | < | < | 0.26 J | < | NA | 7.2 | 0.31 J | < | NA | 7.5 | 0.34 J | < | NA | 71 | 1.65 | 0.35 J | < | 1.76 | 1.69 | 0.23 J | 0.28 J | < | NA | NL |
| n-Heptane | < | 0.63 J | < | < | 0.48 J | < | NA | 29 | 0.53 J | 1.05 | NA | 28 | 0.58 J | 0.955 | NA | 1,500 | 3.78 | 1 | 1.03 | 3.64 | 3.22 | < | < | < | NA | NL |
| Trichloroethene | 13,000 | 3.5 | 1.84 | 5,600 | 3.1 | 3.27 | < | 3.2 | 3.2 | 2.56 | < | 3.3 | 3.5 | 2.81 | < | 4.5 J | < | 2.4 | 0.849 | 2.00 | 0.489 | < | < | < | < | 2 |
| Methyl isobutyl ketone | < | < | < | < | 3.6 | < | NA | 7.3 | < | < | NA | 7.9 | 0.59 J | < | NA | < | 5.94 | < | < | 4.92 | 3.85 | < | 0.32 J | < | NA | NL |
| Toluene | < | 0.55 J | < | 620 | 0.55 J | < | NA | 17 | 1.1 | < | NA | 23 | 1.3 | < | NA | 310 | 12.3 | 0.95 | 2.6 | 12.8 | 11.3 | 0.51 J | 0.54 J | < | NA | NL |
| Tetrachloroethene | 480,000 | 19 | 0.19 | 52,000 | 12 | 0.19 | NA | 72 | 22 | 0.217 | NA | 30 | 25 | 0.217 | NA | 54 J | 152 | 15 | 0.251 | 132 | 94.9 | 0.14 J | 0.11 J | < | NA | 30 |
| Methyl Butyl Ketone (2-Hexanone) | < | 0.48 J | < | < | < | < | NA | 5.3 | < | < | NA | 5.2 | 0.64 J | < | NA | < | < | < | < | < | < | < | 1.3 J | < | NA | NL |
| Ethylbenzene | < | < | < | 210 J | < | < | NA | 2.1 | 0.19 J | < | NA | 2.6 | 0.32 J | < | NA | 71 | 3.71 | 0.19 J | < | 3.07 | 2.72 | 0.15 J | < | < | NA | NL |
| m,p-Xylene | < | 0.4 J | < | 520 J | 0.41 J | < | NA | 11 | 0.67 J | < | NA | 10 | 1.4 J | < | NA | 340 | 12.6 | 0.66 J | < | 11.6 | 10.0 | 0.49 J | 0.41 J | < | NA | NL |
| o- Xylene | < | 0.19 J | < | 220 J | 0.19 J | < | NA | 3.6 | 0.3 J | < | NA | 3.5 | 0.59 J | < | NA | 100 | 5.26 | 0.29 J | < | 4.29 | 3.75 | 0.19 J | < | < | NA | NL |
| Xylene (total) | < | 0.59 J | < | 740 J | 0.6 J | < | NA | 15 | 0.96 J | < | NA | 13 | 2 J | < | NA | 440 | 17.9 | 0.94 J | < | < | < | 0.66 J | 0.4 J | < | NA | NL |
| Styrene | < | < | < | < | < | < | NA | 0.72 J | < | < | NA | 0.68 J | < | < | NA | < | < | < | < | < | < | 0.18 J | < | < | NA | NL |
| Cumene | < | < | < | < | < | < | NA | 0.83 J | < | < | NA | 1 J | < | < | NA | 20 J | < | < | < | < | < | < | < | < | NA | NL |
| n-Propylbenzene | < | < | < | < | < | < | NA | 1.1 J | < | < | NA | 0.89 J | < | < | NA | 16 J | < | < | < | < | < | < | < | < | NA | NL |
| 4-Ethyltoluene | < | < | < | < | < | < | NA | 1.5 J | < | < | NA | 1.3 J | 0.31 J | < | NA | 9.1 J | 1.88 | < | < | 1.52 | 1.34 | < | < | < | NA | NL |
| 1,3,5-Trimethylbenzene | < | < | < | < | < | < | NA | 1.7 J | < | < | NA | 1.3 J | 0.26 J | < | NA | 20 J | 2.59 | 0.2 J | < | 1.90 | 1.47 | < | < | < | NA | NL |
| 2-Chlorotoluene | < | < | < | < | < | < | NA | < | < | < | NA | < | 0.39 J | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |
| 1,2,4-Trimethylbenzene | < | 0.46 J | < | < | < | < | NA | 3.8 | 0.35 J | < | NA | 3.7 | 1.2 | < | NA | 18 J | 10.2 | 0.6 J. | < | 6.78 | 5.56 | < | < | < | NA | NL |
| 4-Isopropyltoluene | < | < | < | < | < | < | NA | < | < | < | NA | < | 0.39 J | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |
| 1,4-Dichlorobenzene | < | 1.5 | < | < | 0.71 J | < | NA | < | 0.57 J | < | NA | < | 0.52 J | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |
| Naphthalene | < | < | < | < | < | < | NA | 1.1 | < | < | NA | < | < | < | NA | < | < | < | < | < | < | < | < | < | NA | NL |

Analytical method for air samples = United States Environmental Protection Agency (USEPA) Method TO-15

(1) New York State Department of Health (NYSDOH), Guidance for Evlauating Soil Vapor Intrusion in the State of New York, October 2006 and subsequent updates Table 3.1

< = Analyte detected at concentration below laboratory method detection limit

ug/m3 = Micrograms per cubic meter

NL = Not listed

NA = Not Analyzed

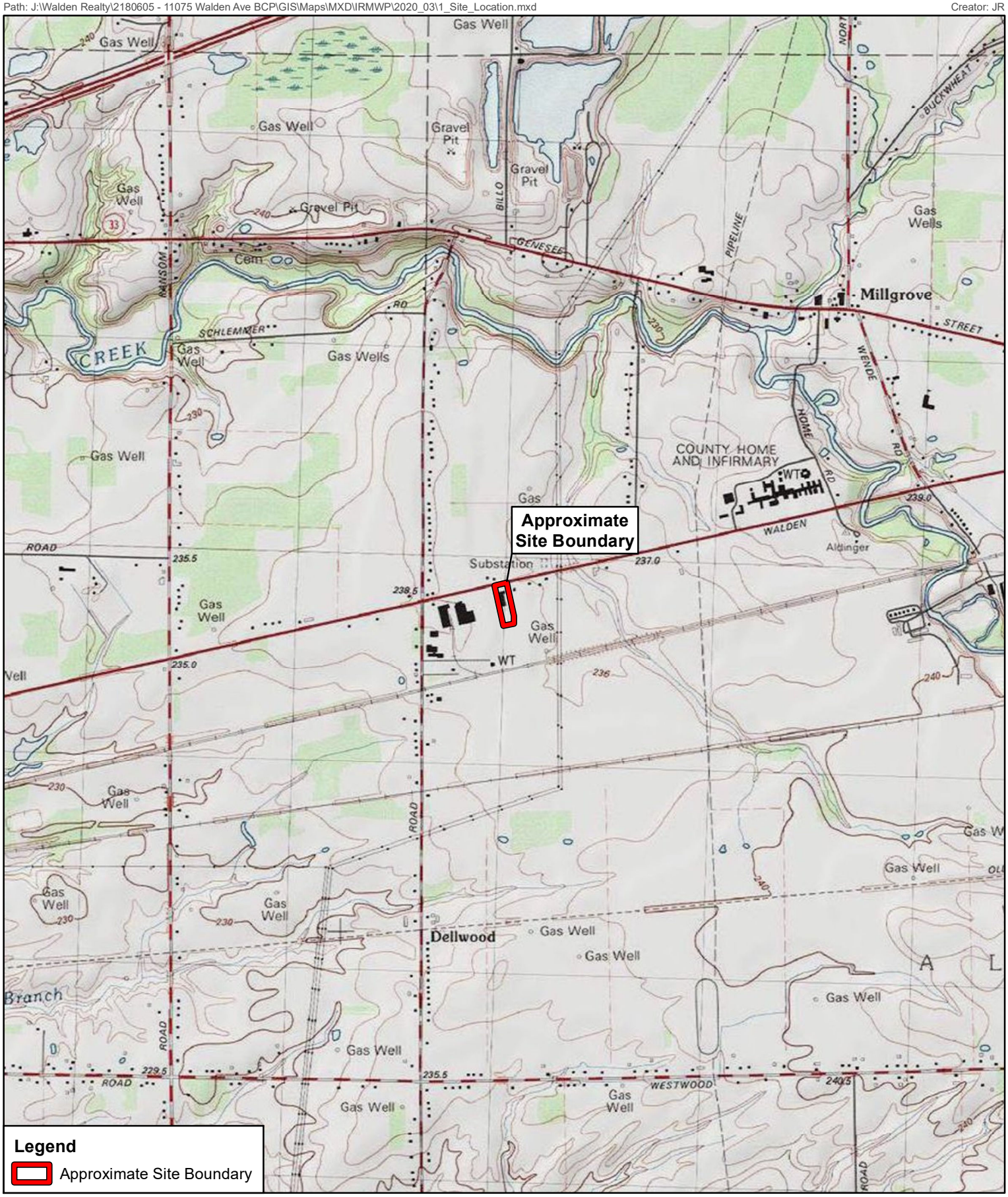
J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

Shaded = Analyte detected within indoor air sample at a concentration above NYSDOH Table 3.1 Value

Figures

Path: J:\Walden Realty\2180605 - 11075 Walden Ave BCP\GIS\Maps\MXD\IRMWP\2020_03\1_Site_Location.mxd

Creator: JR




| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 1**<br>3/27/2020 | Site Location Map | 11075 Walden Avenue<br>Alden, New York |

N

0 1,000 2,000 Feet

LaBella
Powered by partnership.

Data Source: LaBella 2020; National Geographic Society, i-cubed 2013.

Path: J:\Walden Realty\2180605 - 11075 Walden Ave BCP\GIS\Maps\MXD\IRMWP\2020_03\2_Site_Base_Map.mxd

Creator: JR




| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 2**<br>10/23/2023 | Site Base Map | 11075 Walden Avenue<br>Alden, New York |

N

0 50 100 Feet

LaBella
Powered by partnership.

Data Source: Erie County 2019; LaBella 2020; Pictometry 2017.

Path: \\projects2\projectsNZ\Walden Realty\2180605 - 11075 Walden Ave BCP\GIS\Maps\MXD\IRM_and_RI_Combined\2025_07\3_IRM_Excavation_Soil_Exceedance_And_Soil_Cover_System\3_IRM_Excavation_Soil_Ex




PROJECT # / DRAWING # / DATE:
2180605
**Figure 3**
3/27/2024

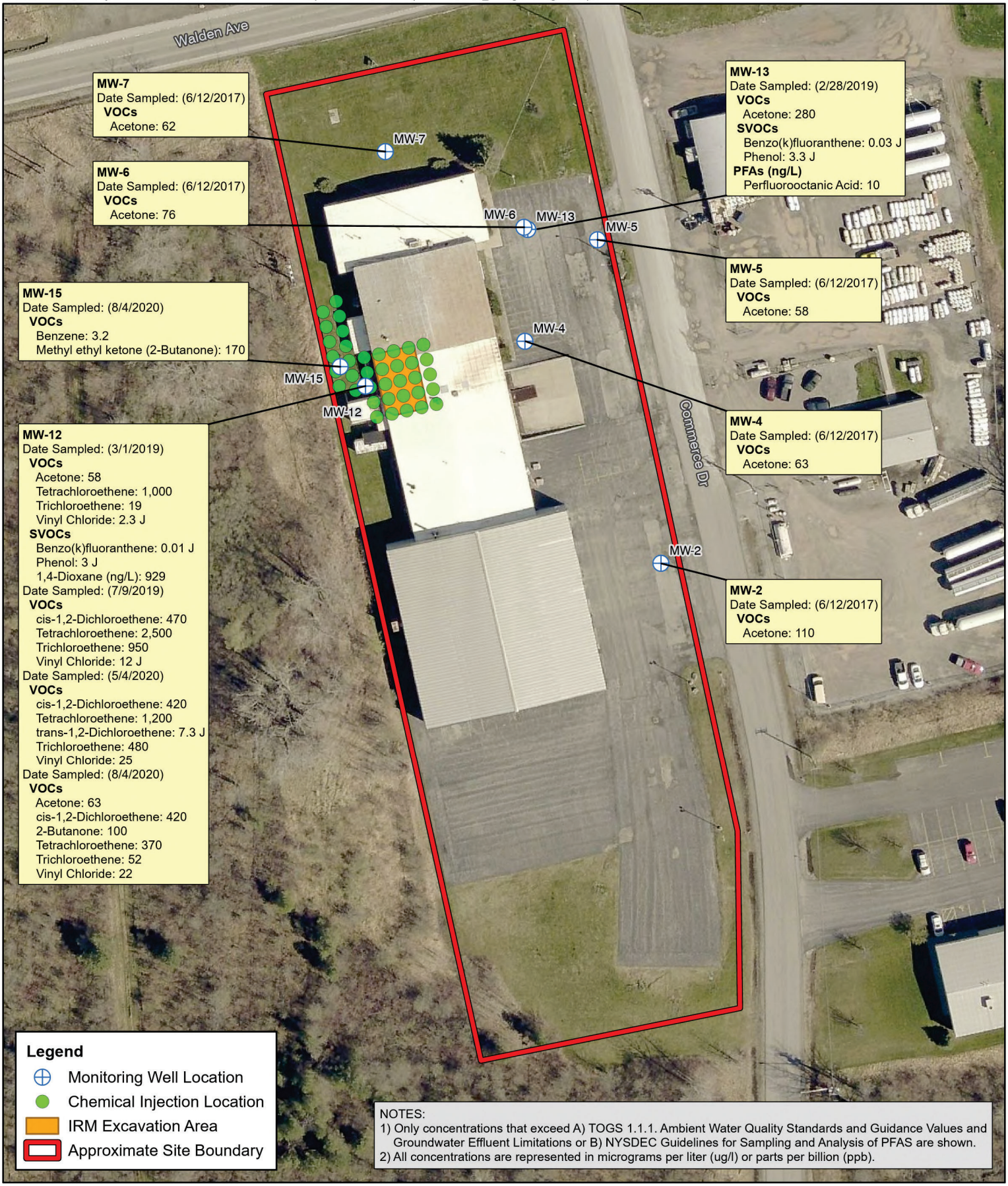
DRAWING NAME:
IRM Excavation, Soil Exceedance and Soil Cover System Map

PROJECT:
11075 Walden Avenue
Alden, New York

N
0 40 80
Feet

LaBella
Powered by partnership.

Data Source: LaBella 2017 - 2020; Pictometry 2017.




PROJECT # / DRAWING # / DATE:
2180605
**Figure 4**
4/22/2024

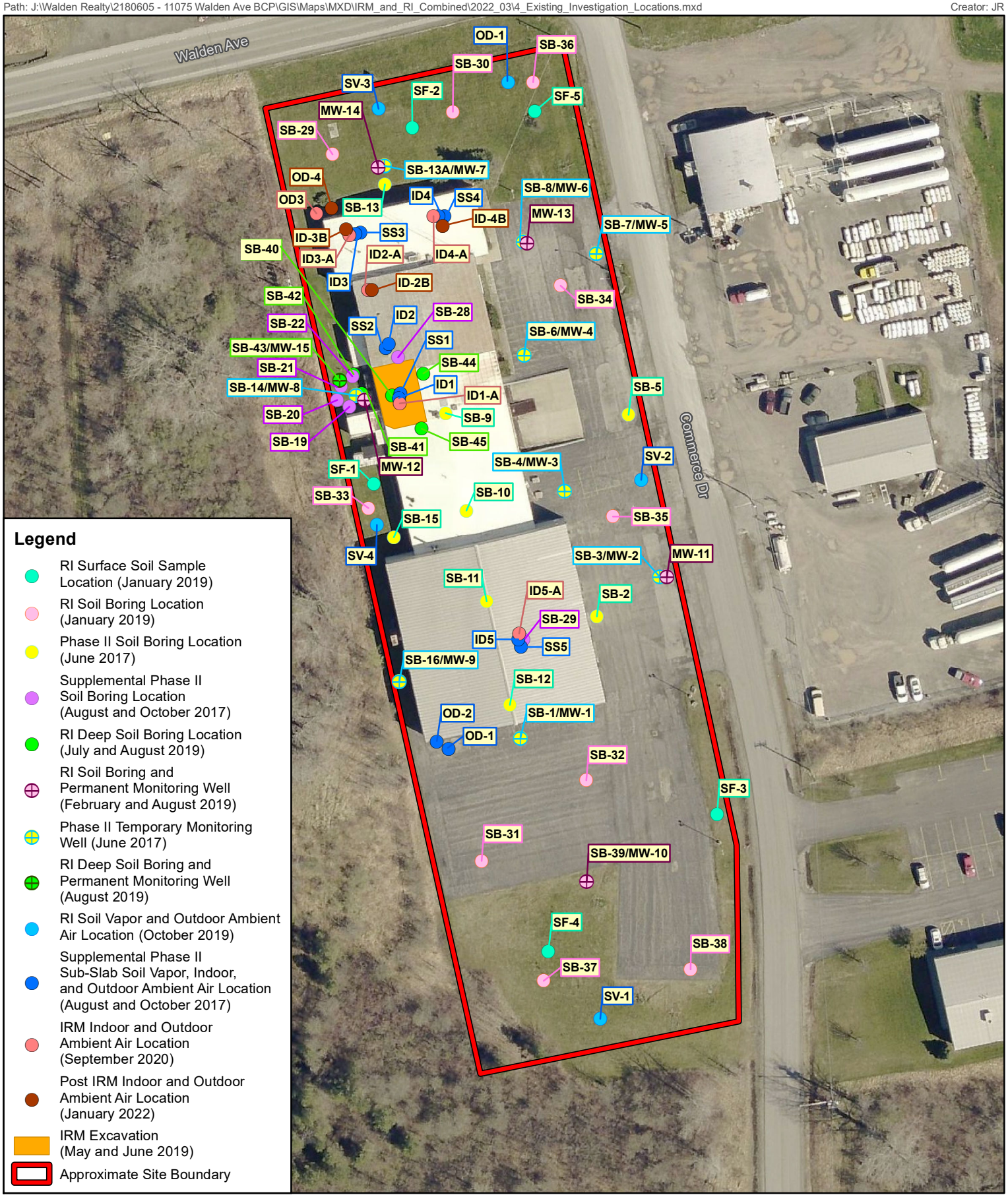
DRAWING NAME:
Groundwater Monitoring Wells & In-Situ Treatment Locations

PROJECT:
11075 Walden Avenue
Alden, New York

N
0 40 80 Feet

LaBella
Powered by partnership.

Data Source: LaBella 2019-2024; Pictometry, 2017.




## Legend

- RI Surface Soil Sample Location (January 2019)
- RI Soil Boring Location (January 2019)
- Phase II Soil Boring Location (June 2017)
- Supplemental Phase II Soil Boring Location (August and October 2017)
- RI Deep Soil Boring Location (July and August 2019)
- RI Soil Boring and Permanent Monitoring Well (February and August 2019)
- Phase II Temporary Monitoring Well (June 2017)
- RI Deep Soil Boring and Permanent Monitoring Well (August 2019)
- RI Soil Vapor and Outdoor Ambient Air Location (October 2019)
- Supplemental Phase II Sub-Slab Soil Vapor, Indoor, and Outdoor Ambient Air Location (August and October 2017)
- IRM Indoor and Outdoor Ambient Air Location (September 2020)
- Post IRM Indoor and Outdoor Ambient Air Location (January 2022)
- IRM Excavation (May and June 2019)
- Approximate Site Boundary

| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 5**<br>3/27/2024 | Sample Locations | 11075 Walden Avenue<br>Alden, New York |

N

0 40 80 Feet

LaBella
Powered by partnership.

Data Source: LaBella 2017 - 2022; Pictometry 2017.




| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: | |
|---|---|---|---|
| 2180605<br>**Figure 6**<br>10/4/2023 | Occupancy Sketch | 11075 Walden Avenue<br>Alden, New York | N<br>Not to Scale<br>LaBella<br>Powered by partnership. |

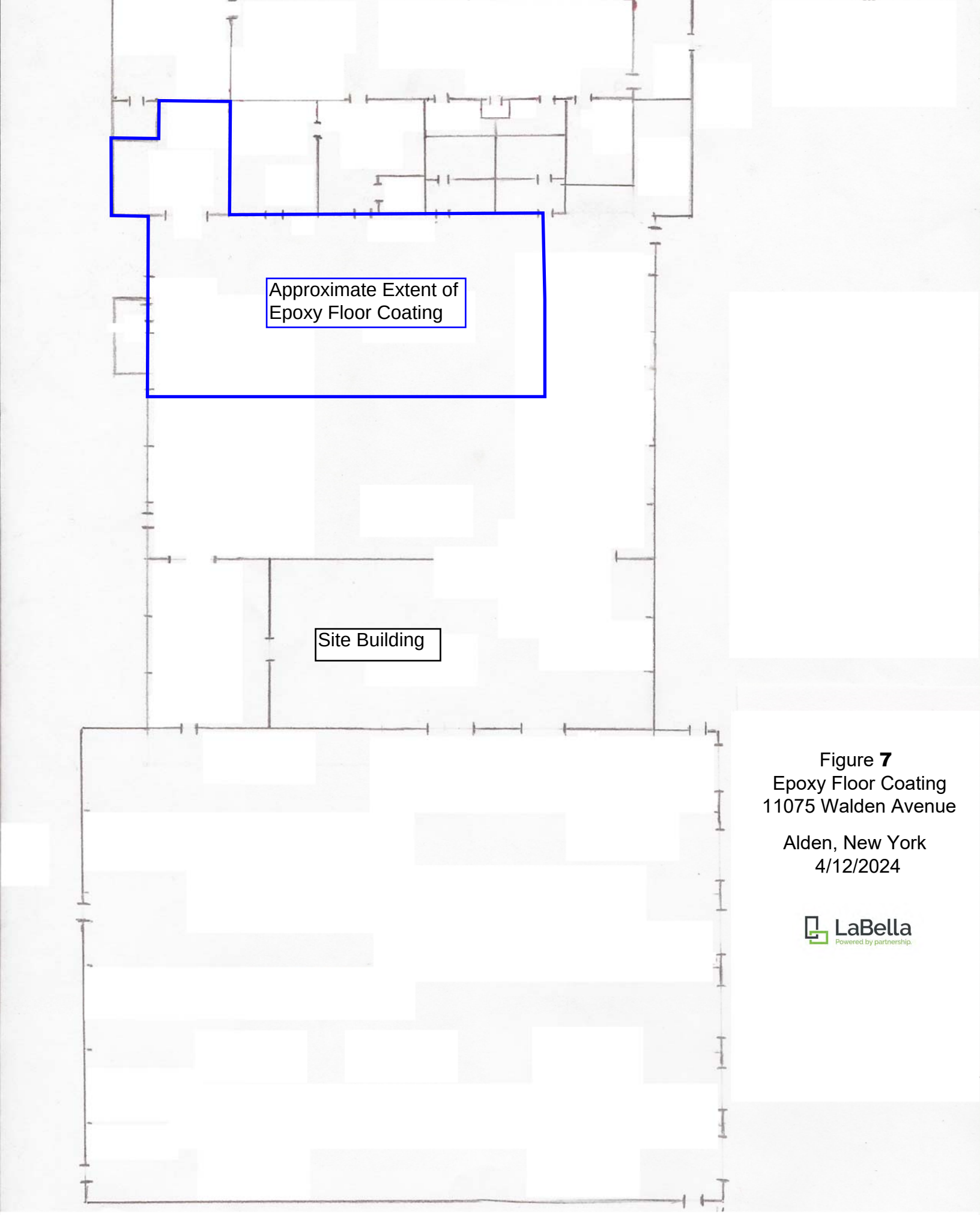



Figure **7**
Epoxy Floor Coating
11075 Walden Avenue

Alden, New York
4/12/2024

LaBella
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Path: \\projects2\projectsNZ\Walden Realty\2180605 - 11075 Walden Ave BCP\GIS\Maps\MXD\IRM_and_RI_Combined\2025_06\6_Chemical_Injection_and_MW_Locations\6_Chemical_Injection_and_MW_Locations.aprx

Creator: JR




| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 8**<br>6/20/2025 | Soil Cover System | 11075 Walden Avenue<br>Alden, New York |

N

0 40 80 Feet

LaBella
Powered by partnership.

Data Source: LaBella 2020; Pictometry 2017.

# Appendix A – Survey Map, Metes and Bounds

NOTES:

-ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MAP MARKED WITH THE SIGNATURE AND AN ORIGINAL OF THE LAND SURVEYOR'S SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

-UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY DRAWING, DESIGN, SPECIFICATION, PLAN OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

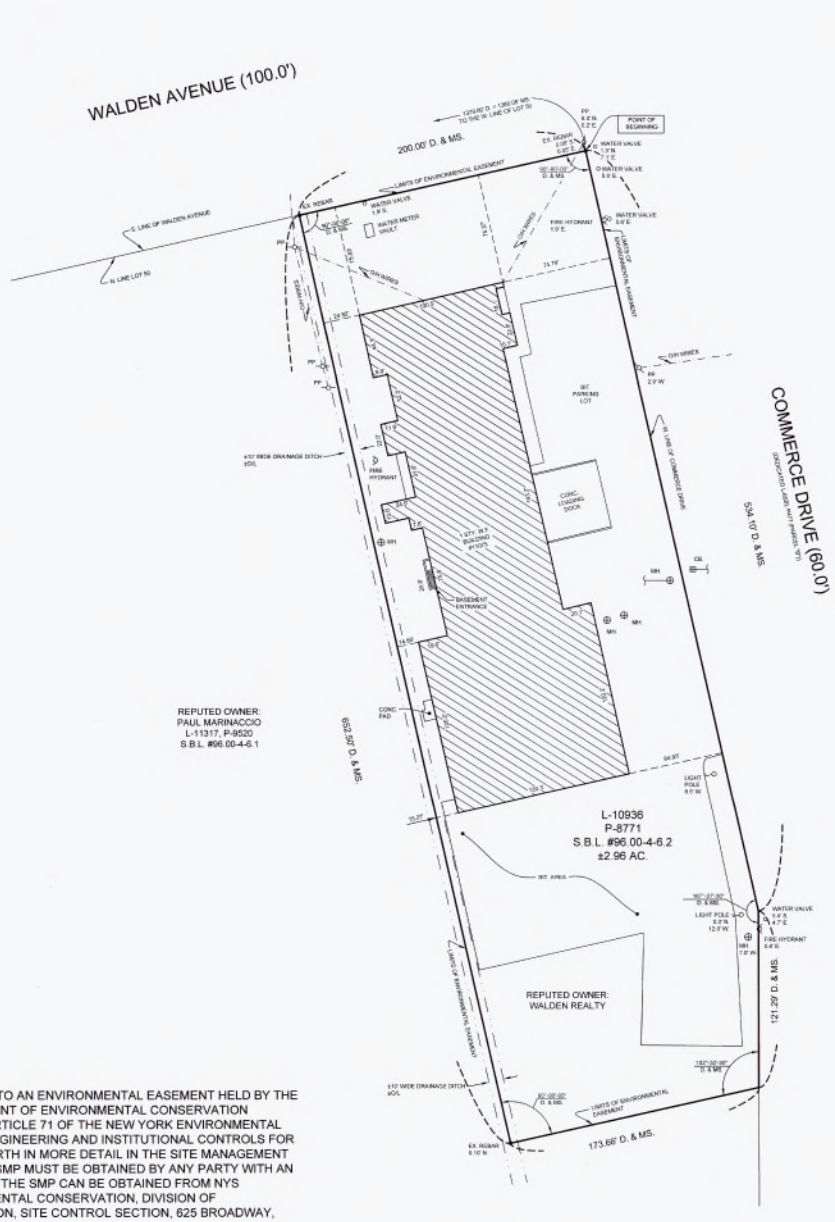
## ENVIRONMENTAL EASEMENT AREA ACCESS

THE ENVIRONMENTAL EASEMENT AREA MAY BE ACCESSED AS SHOWN HEREON THROUGH ANY EXISTING STREET ACCESS OR BUILDING INGRESS/EGRESS ACCESS POINT



PROJECT LOCATION MAP

NOT TO SCALE




REPUTED OWNER:
PAUL MARINACCIO
L-11317, P-9520
S.B.L. #96.00-4-6.1

### LEGEND:

| | |
|---|---|
| AC. = ACRES | MH = MANHOLE |
| APPROX. = APPROXIMATE | MP. = MAP |
| AVE. = AVENUE | MS. = MEASURED |
| BIT. = BITUMINOUS | N = NORTH |
| CB = CATCH BASIN | OH = OVERHEAD |
| CH. = CHAIN | OIL = ON LINE |
| CONC. = CONCRETE | PO. = PORCH |
| COR. = CORNER | PP = POWER POLE |
| C.T.V. = CABLE TV BOX | P = PAGE |
| ℄ = CENTERLINE | ℙ = PROPERTY LINE |
| D. = DEED | PAVT = PAVEMENT |
| DIA. = DIAMETER | RD. = ROAD |
| DIST. = DISTANCE | S = SOUTH |
| E = EAST | ST. = STREET |
| EJB = ELECTRICAL JUNCTION BOX | STY. = STORY |
| ENC. = ENCROACHMENT | TJB = TELEPHONE JUNCTION BOX |
| ESMT. = EASEMENT | TYP. = TYPICAL |
| EX. = EXISTING | W = WEST |
| FNC. = FENCE | W/ = WITH |
| GAR. = GARAGE | WD. = WOOD |
| IP. = IRON PIPE | W.F. = WOODFRAME |
| L = LIBER | |
| ⊕ = MANHOLE | ✱ = EXISTING REBAR |
| ⊞ = CATCH BASIN | o = WATER VALVE |
| ☼ = LIGHT POLE | ⩓ = FIRE HYDRANT |
| -o- = POWER POLE | |
| ● = EXISTING IRON PIPE | |

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

WENDEL PROJECT NUMBER: 2963-19-05/030
DRAWING NAME: 05.030
ENVIRONMENTAL EASEMENT SURVEY

## METES AND BOUNDS DESCRIPTION OF PROPERTY (DEED L-10936, P-8771) FOR TAX ID No. 96.00-4-6.2 TOWN OF ALDEN, ERIE COUNTY, STATE OF NEW YORK

ALL THAT TRACT OR PARCEL OF LAND, SITUATE IN THE TOWN OF ALDEN, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT No. 50, TOWNSHIP 11, RANGE 5, OF THE HOLLAND LAND COMPANY'S SURVEY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTH LINE OF WALDEN AVENUE; SAID LINE ALSO BEING THE NORTH LINE OF LOT No. 50, DISTANT 1379 FEET EASTERLY FROM ITS INTERSECTION WITH THE WESTERLY LINE OF LOT No. 50; RUNNING THENCE SOUTHEASTERLY AT RIGHT ANGLES, 534.10 FEET; CONTINUING THENCE SOUTHERLY AND FORMING AN INTERIOR ANGLE OF 167°-27'-30" WITH THE LAST DESCRIBED COURSE, 121.29 FEET; RUNNING THENCE WESTERLY AND AT AN INTERIOR ANGLE OF 102°-32'-30", 173.66 FEET; RUNNING THENCE NORTHERLY AT RIGHT ANGLES, 652.50 FEET TO A POINT IN THE SOUTH LINE OF WALDEN AVENUE; RUNNING THENCE EASTERLY AT RIGHT ANGLES, 200 FEET TO THE PRINCIPAL POINT OR PLACE OF BEGINNING.

## METES AND BOUNDS DESCRIPTION OF PROPERTY (AS MEASURED) FOR TAX ID No. 96.00-4-6.2 TOWN OF ALDEN, ERIE COUNTY, STATE OF NEW YORK

ALL THAT TRACT OR PARCEL OF LAND, SITUATE IN THE TOWN OF ALDEN, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT No. 50, TOWNSHIP 11, RANGE 5, OF THE HOLLAND LAND COMPANY'S SURVEY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTH LINE OF WALDEN AVENUE; SAID LINE ALSO BEING THE NORTH LINE OF LOT No. 50, DISTANT 1380.05 FEET EASTERLY FROM ITS INTERSECTION WITH THE WESTERLY LINE OF LOT No. 50; RUNNING THENCE SOUTHEASTERLY AT RIGHT ANGLES, 534.10 FEET; CONTINUING THENCE SOUTHERLY AND FORMING AN INTERIOR ANGLE OF 167°-27'-30" WITH THE LAST DESCRIBED COURSE, 121.29 FEET; RUNNING THENCE WESTERLY AND AT AN INTERIOR ANGLE OF 102°-32'-30", 173.66 FEET; RUNNING THENCE NORTHERLY AT RIGHT ANGLES, 652.50 FEET TO A POINT IN THE SOUTH LINE OF WALDEN AVENUE; RUNNING THENCE EASTERLY AT RIGHT ANGLES, 200 FEET TO THE PRINCIPAL POINT OR PLACE OF BEGINNING. CONTAINING 2.96 ACRES, MORE OR LESS.

*ALTERATION OF THIS DOCUMENT, EXCEPT BY A LICENSED LAND SURVEYOR, IS ILLEGAL*

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SITE NUMBER C915333

PREPARED BY THE CONSULTANT


wendel

Centerpointe Corporate Park * 375 Essjay Road, Suite 200
Williamsville, New York 14221
PHONE: 716.688.0766 FAX: 716.625.6825
WEBSITE: www.wendelcompanies.com
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.


MAP OF LANDS OF
WALDEN REALTY LIMITED PARTNERSHIP
SITUATE IN TOWN OF ALDEN, COUNTY OF ERIE, STATE OF NEW YORK
LOT 50, TOWNSHIP 11, RANGE 5 OF THE HOLLAND LAND COMPANY'S SURVEY,
TAX MAP NO.: 96.00-4-6.2
11075 WALDEN AVENUE

0 20 40 80 (FEET)
0 6.096 12.192 24.384 (METERS)

SCALE: 1" = 40'
SCALE: 2.5 cm = 12.192 m
1:500

WE: WENDEL, AND RICHARD N. JOHNSON P.L.S., HEREBY CERTIFY TO WALDEN REALTY LIMITED PARTNERSHIP AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION THAT THIS MAP WAS PREPARED MAY 15, 2019 FROM NOTES OF AN INSTRUMENT SURVEY COMPLETED BY US ON MAY 13, 2019, AND THAT IN OUR PROFESSIONAL OPINION THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE CURRENT CODE OF PRACTICE FOR LAND TITLE SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. THIS SURVEY IS CERTIFIED TO THOSE NAMED ABOVE AND DOES NOT EXTEND TO SUBSEQUENT OWNERS, MORTGAGEES OR TITLE INSURERS, UNLESS THIS SURVEY HAS BEEN RESURVEYED FOR THIS PURPOSE BY THE SURVEYOR. THIS MAP IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES THAT AN ABSTRACT OF TITLE MAY SHOW.

STATE OF NEW YORK · RICHARD NATHAN JOHNSON · 051043 · LICENSED LAND SURVEYOR

RICHARD N. JOHNSON, LAND SURVEYOR #051043 — DATE 6/17/2019

SHEET 1 of 1

**CHECKED BY:** RNJ

Appendix B – Electronic Version of FER with All Supporting Documents

# Appendix C – Interim Remedial Measures Work Plans

# Interim Remedial Measures Work Plan

Location:

BCP Site # C915333
11075 Walden Avenue
Alden, New York 14004

Prepared for:

Walden Realty Limited Partnership/ Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

November 28, 2018

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

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Appendix 2 – Site Health & Safety Plan
Appendix 3 – Site Community Air Monitoring Plan

# 1.0 INTRODUCTION

On behalf of Walden Realty Limited Partnership and Doritex Corp. (collectively, the "Participant"), LaBella Associates, D.P.C. (LaBella) is pleased to submit this Interim Remedial Measures (IRM) Work Plan (IRMWP) to conduct remedial activities at 11075 Walden Avenue, Town of Alden, Erie County, New York, herein after referred to as the "Site." The Site is applying to enter into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) (BCP Site #C915333). A Site Location Map is included as Figure 1.

Information gathered from previous investigations conducted at the Site, as summarized in Section 3.0, have identified the presence of chlorinated volatile organic compound (cVOC) (solvent)-impacted soils, elevated concentrations of Acetone in groundwater, and cVOC-impacted soil vapor beneath the Site Building slab and within the Site Building's indoor air. The activities in this IRMWP will be carried out in accordance with the NYSDEC's Department of Environmental Remediation (DER)-10 (*Technical Guidance for Site Investigation and Remediation)* issued May 3, 2010 after Participants executes a Brownfield Cleanup Agreement with NYSDEC and the Remedial Investigation (RI) Work Plan (RIWP) has been substantially completed to the NYSDEC's satisfaction, and NYSDEC gives written permission to Participant to implement this IRMWP.

# 2.0 SITE DESCRIPTION AND HISTORY

## *2.1 Site Description and Surrounding Properties*

The Site consists of one tax parcel (SBL #96.00-4-6.2) totaling 2.6± acres. The Site is located in a suburban area south of Walden Avenue and west of Commerce Drive. Figure 2 illustrates the location and boundaries of the current tax parcel configuration associated with the Site. Current Site features include one, single-story 34,858 square foot vacant commercial building (Site Building) on the central portion of the Site. Exterior areas include green space to the north, west and south of the Site Building, asphalt-paved parking areas to the east and south of the Site Building, and commercial buildings further to the east across Commerce Drive.

## *2.2 Site History*

The Site consisted of undeveloped land from at least 1880 to at least 1951 and agricultural land from at least 1938 to at least 1951. The Site appears to have been developed with the original portion of the Site Building in at least 1964. The Site was historically utilized as a commercial laundry facility, including dry cleaning, from at least 1988 (potentially as early as the 1970s by others) through 2006. It should be noted that the Site was listed within the Federal Drycleaners, Resource Conservation and Recovery Act Generator, and Aerometric Information Retrieval System's programs associated with the dry cleaning operations. The Site also reportedly utilized a septic system prior to the mid-1980s. Floor drains noted throughout the Site Building may have previously discharged to an on-site septic system. Furthermore, former on-site operations reportedly included printing. Although available resources to date were consulted, the use of the Site Building in the 1960s is unknown. Adjacent properties have been historically utilized agriculturally and commercially.

### *2.3 Site Geology and Hydrogeology*

According to the USDA Erie County Soil Survey, soils at the Site consist mainly of Kendaia silt loam. Soils of this type are characterized by silt loam, gravelly silt loam and gravelly loam and are generally considered to be somewhat poorly drained soil. Based on the results of LaBella's December 4, 2017 Phase II Environmental Site Assessment (ESA) report, a concrete slab was encountered to 0.6 feet below the ground surface (ft bgs) followed by a gravel sub-base beneath it to a depth of one ft bgs within the Site Building. Non-native materials, including asphalt-paved surface material and sub-base gravel to depths ranging from 0.3 to 0.6 ft bgs, were encountered in select exterior areas of the Site. In addition, a fill layer consisting of brown silty clay intermingled with trace gravel, rock and concrete was encountered to depths ranging from one to two ft bgs proximate the Site Building foundation areas. Native soils generally consisted of brown-red to brown-gray clayey silts typical of outwash plains and alluvial fans to a depth of 16 ft bgs throughout the Site. Depth to groundwater has been measured at the Site between four and ten ft bgs. Bedrock beneath the Site is reported to consist of Marcellus Formation black shale, limestone and sandstone, dating from the Middle Devonian period.

## 3.0 PREVIOUS INVESTIGATIONS

The IRMWP scope of work was developed utilizing the results of LaBella's December 4, 2017 Supplemental Phase II ESA Report as summarized below:

- cVOC-impacted soil has been identified located beneath the west central portion of the Site Building.
- Soil vapor intrusion sampling conducted within the Site Building identified cVOCs in both indoor air and sub-slab soil vapor samples at concentrations requiring mitigation when compared to New York State Department of Health (NYSDOH) Soil Vapor Intrusion guidance. The source of the impact appears to be related to historical dry-cleaning operations conducted within the Site Building, specifically a dry cleaning machine which was historically located proximate the subsurface impact identified.
- Acetone was identified above NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards in groundwater samples collected from five of the nine temporary groundwater monitoring wells installed at the Site, including at the perimeter.

## 4.0 STANDARDS, CRITERIA, AND GUIDANCE

This section identifies the Standards, Criteria and Guidance (SCGs) for the Site. The SCGs identified are used in order to quantify the extent of contamination at the Site that require remedial work based on the cleanup goal. The SCGs to be utilized as part of the implementation of this IRMWP are identified below:

Soil SCGs: The following SCGs for soil were used in developing this IRMWP:

- NYSDEC Part 375 Commercial-Use Soil Cleanup Objectives (SCOs)

Soil Vapor SCGs: The following SCGs for soil vapor were used in developing this IRMWP:

- NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006

Table 1 presents the complete list of applicable Commercial-Use SCOs to be utilized as part of the implementation of this IRMWP.

## 5.0 AREAS OF CONCERN

Based on December 4, 2017 Supplemental Phase II ESA report, the following areas of concern (AOCs) have been identified at the Site.

### *AOC #1: Impacted Soil Vapor*

Sub-slab soil vapor samples collected from beneath the concrete slab of the Site Building identified a soil vapor intrusion concern within the Site Building. As a result, a sub-slab depressurization system (SSDS) will be installed within the Site Building and will be completed within the scope of this IRMWP.

### *AOC #2: Impacted Soil*

Solvent-type odors and elevated photo ionization detector (PID) readings were encountered within soil borings advanced beneath the reported former location of a dry cleaning machine which was historically located within the west central portion of the Site Building. Several elevated concentrations of cVOCs (cis – 1,2- dichloroethene, trans-1,2-dichloroethene, tetrachloroethene and trichloroethene) were identified amongst the soil samples collected from SB-14, SB-17, SB-18 and SB-23 through SB-26 with total VOC concentrations ranging from 176.7 micrograms per kilogram (µg/kg) to 140,102.2 µg/kg. Excavation of this cVOC-impacted soil will be completed within the scope of this IRMWP. In addition, Participants may obtain one or more subsurface soil samples to support an amendment to the Brownfield Cleanup Agreement to qualify the Site for the tangible property credit.

### *AOC #3: Impacted Groundwater*

Acetone was identified exceeding NYSDEC TOGS within five groundwater samples collected and submitted for analysis from MW-2, MW-4, MW-5, MW-6 and MW-7. At the request of the NYSDEC, further investigation of the on-site groundwater will be included during the RI conducted at the Site to attempt to confirm if the identified Acetone concentrations are from an off-site source and to confirm groundwater flow at the Site. It should be noted that no other cVOCs have been detected in groundwater samples collected from the Site at concentrations exceeding NYSDEC TOGS. Unless an on-site source of Acetone is identified during the RI, no further action will be taken as part of this IRMWP with respect to the Acetone.

## 6.0 OBJECTIVES

The objective of this IRMWP is to install an SSDS and to remove the identified cVOC-impacted soil located beneath the concrete slab in the west central portion of the Site Building in order to eliminate what appears to be the primary source of cVOCs contributing to impacted soil vapor and to eliminate the threat of groundwater contamination. The proposed IRMWP may or may not be the

final remedy for the Site depending on the findings and conclusions of the RI report and NYSDEC's decision document for the Site. The overall objective for the Site is re-use for commercial/industrial-type operations.

# 7.0 SUMMARY OF REMEDIAL GOALS

The proposed future use of the Site is commercial/industrial in nature. As such, at a minimum, the IRMWP is intended to eliminate or mitigate all significant threats to public health and/or the environment presented by the subsurface impacts identified with AOCs #1 and #2 through the proper application of scientific and engineering principles.

The Remedial Goals for this IRMWP are as follows:

1) Mitigate soil vapor intrusion within the Site Building.
2) Excavate cVOC-impacted soil associated with AOC 2.
3) Transport impacted materials to a NYS part 360 permitted landfill for proper disposal.
4) Confirm excavation limits through confirmatory soil sampling.
5) Backfill the excavation with imported clean material.

Impacted soils and liquid materials shall be addressed in accordance with applicable local, state, and federal regulations.

# 8.0 INTERIM REMEDIAL MEASURES PLAN

All IRM field activities will be completed in accordance with the Site Health and Safety Plan (HASP) and Site Community Air Monitoring Plan (CAMP) included in Appendix 2 and Appendix 3, respectively.

## *8.1 Sub-Slab Depressurization System Installation – AOC #1*

### *8.1.1 System Overview*

The SSDS will be designed and installed within the Site Building in accordance with the United States Environmental Protection Agency (USEPA) 402-L-03-007 (May 2006) and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 (and associated amendments). Although the design and configuration of the SSDS has not been confirmed at this time; such typically include the following:

- Sub-slab air communication testing at the start of the work to verify the proposed design.
- Installation and connection of exterior mounted radon fans via polyvinyl chloride (PVC) to strategically located interior sub-slab suction points.
- Subsequent installation, completion of vacuum testing/monitoring to verify vacuum influence.
- Post-Installation Pressure Field Extension Testing and backdrafting testing will then be performed following installation of the SSDS.
- Evaluation of Site Building integrity and if necessary, methods to decrease movement of air through Site Building envelope.

The actual design and configuration of the SSDS will be completed after implementation of the RIWP, and will be submitted for NYSDEC approval prior to implementation.

### *8.1.2 Indoor Air Sampling*

During the heating season and a minimum of at least 30 days after full startup of the SSDS, indoor air samples will be collected from the same locations as shown on Figure 3 in which previous samples were collected within the mitigation area. Specifically five indoor air sample locations will be collected from within the Site Building. One outdoor air sample will also be collected as part of this sampling event.

Air samples will be collected utilizing individually certified-clean 1 liter Summa® canisters (or equivalent) equipped with laboratory calibrated flow controllers. The samples will be collected over an approximate eight hour time period. The indoor and outdoor air samples will be collected at a height of approximately 3 to 5 ft above the floor or ground surface to simulate the breathing zone. The outdoor air sample will be collected at an upwind location of the Site building. Immediately after opening each Summa® canister, the initial vacuum (inches of mercury) and time will be noted and recorded on the laboratory chain-of-custody. After approximately eight hours, final vacuum readings (inches of mercury) will be noted and the Summa® canisters will be closed. All samples will be collected over the same general time period and in the same manner at all locations to minimize possible discrepancies.

Samples will be sent under chain of custody control to a NYSDOH Environmental Laboratory Approval Program certified laboratory for testing. The samples will be tested for a specific list of VOCs using USEPA Method TO-15.

Pending results, these samples will act as "endpoint" samples to confirm "the effectiveness of remedial measures" (i.e. the SSDS) per the NYSDOH Guidance. In the event that one or more of these samples show targeted VOCs at levels above the appropriate SCGs, resampling will be completed within 45 days of the receipt of the validated sample results. If similar results occur, changes to the mitigation system will be made and subsequent sampling will be completed until VOC concentrations in indoor air are below the SCGs.

## *8.2 Excavation of cVOC-Impacted Soil – AOC #2*

The overall excavation associated with AOC #2 will include an approximately 884 square foot area within the west central portion of the Site Building and will be extended to an approximate depth of four ft bgs. Prior to advancement of the excavation, LaBella will complete a structural assessment of the Site Building to evaluate whether structural components of the Site Building would remain uncompromised by the proposed scope of work. The results of the structural assessment will be considered and has the potential to result in modification the scope of work; however, significant modification of the scope of work is not anticipated.

The interior concrete floor will be saw cut to match the anticipated excavation dimensions, demolished, cleared to facilitate access to the subsurface, and properly disposed off-site. Soil excavated will be staged on-site for subsequent characterization and transportation off-site for proper disposal. Although the exact extent and volume of material excavated will be based on the conditions encountered at the time of removal and confirmatory soil sampling, approximately 223 tons of cVOC-impacted soil is anticipated for excavation and disposal. The anticipated limits of the proposed excavation are presented in Figure 3. A LaBella geologist will be on-site during excavation

activities and will continually monitor the removed soils for observed evidence of impairment (visual and olfactory odors) and total VOCs using a PID. Groundwater is not anticipated to be encountered within the first four ft bgs. Good housekeeping practices will be followed to prevent leaving contaminated material on the ground surface (e.g., precautions will be taken to prevent impacts to the ground surface due to material spilled from the excavator bucket). Any material that does spill on to the ground surface will be promptly picked up and placed in an appropriate location.

### *8.2.1 Confirmatory Soil Sampling*

A LaBella geologist will collect confirmatory soil samples. Soil along each sidewall and the floor of the excavation will be sampled in conformance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, May 2010, herein referred to as DER-10. Contaminated soils will be removed from the proposed IRM excavation to the extent practicable. It is anticipated that collaboration with the NYSDEC representative on-site during the implementation of the IRM will be completed to ensure that the IRM excavation is completed to an extent that is both effective and practicable.

Confirmation sample locations and depth will be biased toward the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated, and toward locations and depths of the highest expected contamination. Note that, if field indicators warrant, Participants may also take samples of the more heavily contaminated soil to support an amendment to the Brownfield Cleanup Agreement to qualify the Site for the tangible property credit component.

The scope of the IRM includes the collection of one to two confirmatory soil samples from each sidewall of the excavation and one confirmatory soil sample from the bottom of the excavation. In addition, a field duplicate, MS/MSD and trip blank will be collected and analyzed for Quality Assurance/Quality Control purposes.

If field conditions require the excavation to exceed the anticipated dimensions of the proposed excavation included in the IRMWP, confirmatory soil samples will be collected in accordance with DER-10, Section 5.4. The exact number of confirmatory soil samples required will be determined in the field at the time in which the overall excavation is deemed complete.

- For an excavation of 20 to 300 feet in perimeter: *(it is assumed that AOC 2 will be sampled in accordance with this requirement)*:
    - One sample from each sidewall biased toward the area of the excavation showing the greatest impacts, if any, for every 30 linear feet of sidewall.
    - One sample from the excavation bottom for every 900 square feet of bottom area.
- For excavations greater than 300 feet in perimeter, the confirmatory sampling frequency should be completed in consultation with the NYSDEC.

Confirmatory soil samples will be collected and submitted to a NYSDOH Environmental Laboratory Approval Program certified laboratory. In accordance with the aforementioned sections, the final size of the excavation will determine the exact number of sidewall and bottom samples required. Each confirmation sample will be collected and analyzed for Target Compound List VOCs using USEPA Method 8260. The confirmatory soil sample analytical results will be compared to NYSDEC

Part 375 Commercial-Use SCOs to determine if the excavation is "clean."

Laboratory analytical data packages will be provided as Analytical Services Protocol Category B deliverable packages. A data usability summary report will be provided for each laboratory analytical data package.

The locations of the confirmatory soil samples and the extent of the excavation area will be documented using GPS technology, or measured from building or other Site features. Sample location and elevation data will be provided in the appropriate units and reference system for the NYSDEC Electronic Data Deliverables (EDD). Additionally, elevation data will be provided both in terms of depth relative to ground surface and elevation relative to mean sea level.

#### *8.2.2 Waste Stream Tracking and Verification*

The following documentation will be kept in relation to waste streams:

- Correspondence from the facility accepting the waste stream
- Waste profiles
- Waste characterization sampling and analytical results
- Manifests
- Bills of lading
- Weight tickets

The tracking information will be provided in the IRM Construction Completion Report (See Section 9.0 for details).

### *8.3 Site Restoration*

Following completion of the IRM, the excavation will be backfilled generally to pre-existing grade with compacted clean DER-10-approved crushed stone from a NYSDEC-registered construction and demolition debris processing facility that conforms to the requirements of Section 304 of the New York State Department of Transportation *Standard Specifications Construction and Materials Volume 1* (2002) to meet the existing subgrade. Documentation will be provided to NYSDEC as to the source of the material and the consistency of the material in accordance with the exemption for no chemical testing listed in DER-10 Section 5.4(e)(5). Prior to performing backfilling activities, all equipment that has come into contact with impacted soils will be decontaminated (refer to Section 8.9 Decontamination Pad). Following placement of the backfill, the concrete slab will be properly restored.

### *8.4 Temporary Controls & Site Safety*

Water mist and other suitable methods to limit the spread of dust, dirt and vapors/odors/gases shall be used as deemed necessary by the guidelines provided in the site-specific CAMP (Appendix 3). The methods to control fugitive dust, dirt, and vapors/odors/gases may include one or more of the following:

- Wetting equipment and excavation faces.
- Spraying water on buckets during excavation and dumping.
- Reducing excavation sizes.

- Immediately placing any investigation-derived waste in drums and/or covering with plastic sheeting.
- Temporarily covering the excavation with poly sheeting overnight, if needed, based upon the readings obtained from the CAMP.
- Covering portions of the excavation not actively being worked with poly sheeting to further suppress particulate and vapor migration.
- Providing and maintaining all equipment needed to control dust, vapors, and odors prior to starting the excavation.
- Properly ventilating interior work areas.

See the site-specific CAMP (Appendix 3) for additional information on air monitoring, action levels, and engineering controls to address fugitive dust, dirt, and vapors/odors/gases. Additionally, the IRM will consist of safely containing the project work area, and maintaining traffic and access to the Site as needed to ensure public safety.

In order to protect pedestrians as well as Site workers from the hazards associated with completing the IRM, appropriate precautionary measures will be taken to provide adequate safety measures. These safety measures will include (note: some of these measures may not be necessary for smaller excavations):

- If appropriate, approximate respirators will be worn by the Site workers in accordance with the HASP included in Appendix 2 of this IRMWP.
- Placing orange plastic construction/snow fencing or temporary chain link fencing around the work area to establish an exclusion zone.
- Establishing a contaminant reduction zone for personal decontamination (removal of personal protective equipment) and decontamination pad for equipment.
- Placing orange plastic construction/snow fencing around any excavation required to be left open overnight.
- Donning high visibility vests, hard hats, and safety glasses on-site during IRM activities.
- Adhering to the Site HASP included in Appendix 2 of this IRMWP.
- Placing signs in English and Spanish around the perimeter of the work.

### *8.5 Decontamination Pad*

Equipment that comes into contact with impacted material will be properly decontaminated prior to leaving the Site. Wastes generated from decontamination of equipment will be contained and added to other waste stream materials generated at the Site and disposed of properly off-site. A decontamination pad is anticipated to be necessary at the Site and will consist of:

- Two layers of a minimum of 6-mil polyethylene sheeting at a minimum of ten feet in length by ten feet wide.
- A pressure washer available to rinse off equipment with a potable water source provided by the Participants.
- Brooms, brushes, etc.

To prevent cross-contamination to surrounding areas, vehicles (excavators, drill rigs, etc.) and equipment that has contacted contaminated material will be decontaminated prior to leaving the exclusion zone. Water will be containerized from the decontamination pad and disposed of off-site.

## 9.0 IRM SCHEDULE AND REPORTING – DELIVERABLES

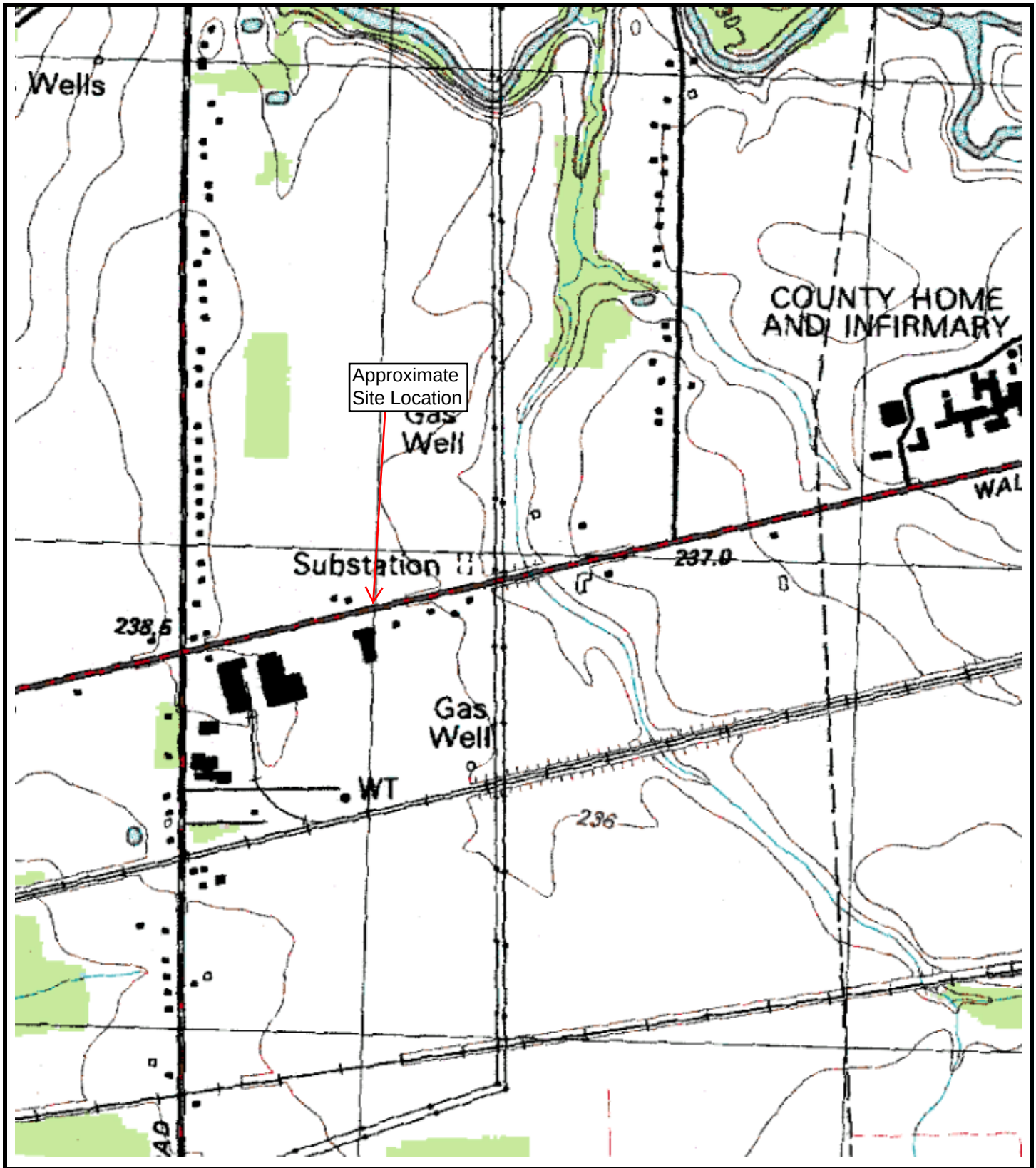
The information and laboratory analytical data obtained during the IRM will be included in an IRM Construction Completion Report (CCR). The CCR will be completed in accordance with NYSDEC DER-10 Section 5.8.

It is anticipated that implementation of the IRMWP will begin within 30 days after NYSDEC-approval, substantial completion of the RIWP, and receipt of the NYSDEC's written approval to proceed and the standard three-day Dig Safely New York waiting period. Completion of the field work is anticipated to require approximately one to two weeks subsequent to implementation of the IRMWP *(Note: this timeframe does not include laboratory analysis or data validation).* The IRM CCR will be submitted within two months of receipt of laboratory analytical results.

The above schedule assumes that an addendum to the IRMWP will not be required. If an IRMWP addendum is required, it will be submitted as the need is identified and it will include a revised schedule.

In addition to the IRM CCR, all data will also be submitted in the NYSDEC-approved EDD format. The data will be submitted on a continuous basis immediately after data validation occurs.

# FIGURES




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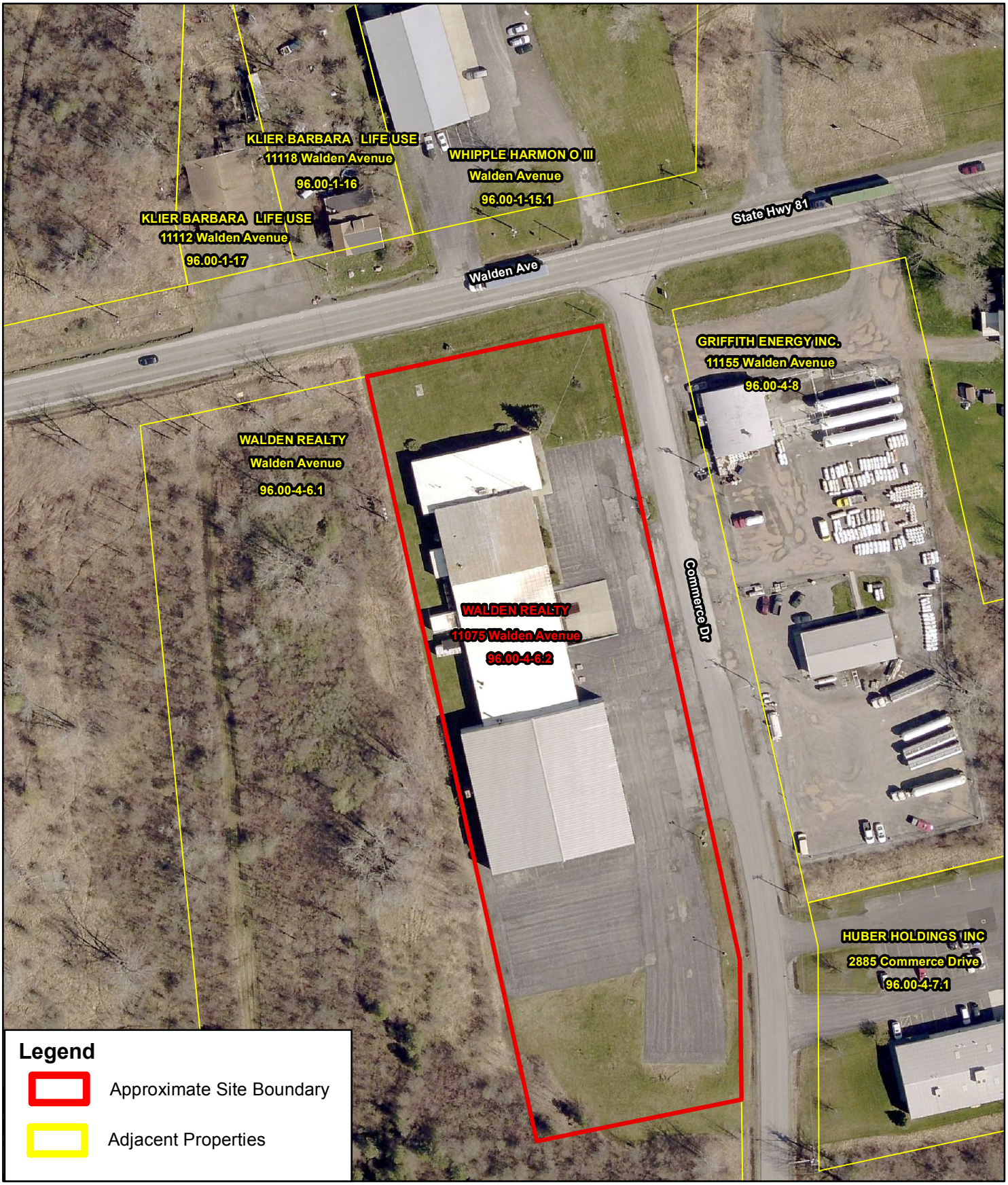
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# FIGURE 1
## SITE LOCATION MAP

11075 Walden Avenue
Alden, New York

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PROJECT NO. 2180605




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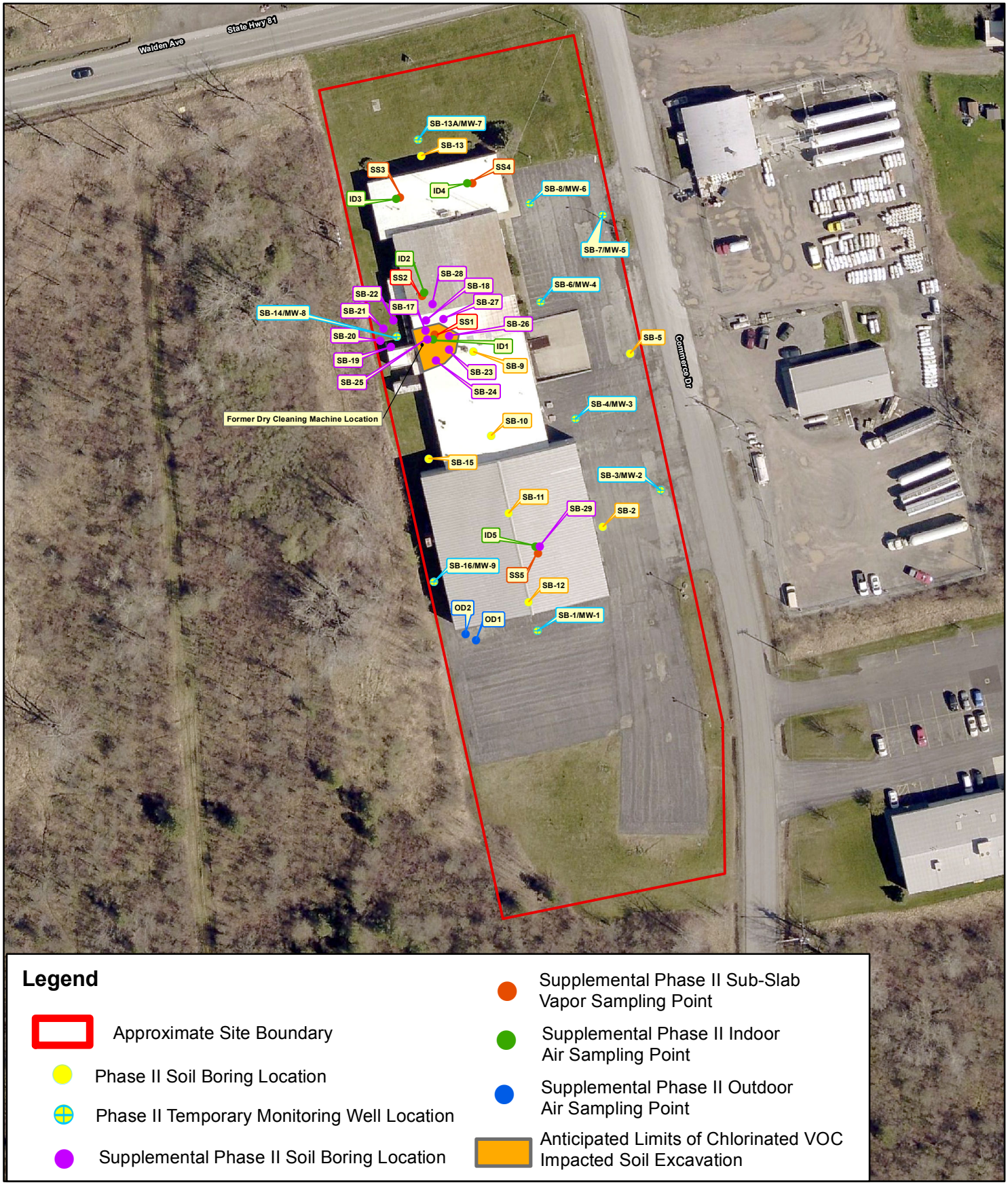
PROJECT #/DRAWING #/DATE:
2180605
FIGURE 2
3/13/2018

DRAWING TITLE
SITE BASE MAP

PROJECT:
INTERIM REMEDIAL MEASURES WORK PLAN
11075 WALDEN AVENUE
ALDEN, NEW YORK

N
W E
S
0 30 60
Feet
1 inch = 108 feet
INTENDED TO PRINT AS: 8.5" X 11"

LaBella
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## Legend

- Approximate Site Boundary
- Phase II Soil Boring Location
- Phase II Temporary Monitoring Well Location
- Supplemental Phase II Soil Boring Location
- Supplemental Phase II Sub-Slab Vapor Sampling Point
- Supplemental Phase II Indoor Air Sampling Point
- Supplemental Phase II Outdoor Air Sampling Point
- Anticipated Limits of Chlorinated VOC Impacted Soil Excavation

| PROJECT #/DRAWING #/DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>FIGURE 3<br>3/14/2018 | AREA OF CONCERN | INTERIM REMEDIAL MEASURES WORK PLAN<br>11075 WALDEN AVENUE<br>ALDEN, NEW YORK |

N W E S

0 40 80 Feet

1 inch = 100 feet

INTENDED TO PRINT AS: 8.5" X 11"

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# TABLES

# Table 1
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# Alden, Erie County, New York
# Iterim Remedial Measures Work Plan
# 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup

| Contaminants | CAS No. | Commercial-Use SCOs |
|---|---|---|
| **Volatile Organic Compounds (ug/kg)** | | |
| Acetone | 67-64-1 | 500,000 |
| Chlorbenzene | 108-90-7 | 500,000 |
| Cyclohexane | 110-82-7 | NL |
| 1,1-Dichloroethene | 75-35-4 | 500,000 |
| cis-1,2-Dichloroethene | 156-59-2 | 500,000 |
| trans-1,2-Dichloroethene | 156-60-5 | 500,000 |
| Ethylbenzene | 100-41-4 | 390,000 |
| Isopropylbenzene | 98-82-8 | NL |
| Methylcyclohexane | 108-87-2 | NL |
| Methylene chloride | 75-09-2 | 500,000 |
| Methyl ethyl ketone (2-Butanone) | 78-93-3 | 500,000 |
| 4-Methyl-2-pentanone | 108-10-1 | NL |
| Tetrachloroethene | 127-18-4 | 150,000 |
| Toluene | 108-88-3 | 500,000 |
| Trichloroethene | 79-01-6 | 200,000 |
| Vinly Chloride | 75-01-4 | 13,000 |
| Total Xylenes | 1330-20-7 | *500,000 |

NYSDEC Part 375 Commercial-Use SCOs = New York State Department of Environmental Conservation

6 NYCRR Part 375 Commercial-Use Soil Cleanup Objectives (SCOs) (12/14/2006)

NL = Not listed

ug/kg = micrograms per kilogram

CAS No. = Chemical Abstracts Service Number

* = SCO for mixed Xylenes

# APPENDIX 1

Phase II Environmental Site Assessments

LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716.551.6281 | f 716.551.6282 | www.labellapc.com

# Supplemental Phase II Environmental Site Assessment

Location:

11075 Walden Avenue
Alden, New York

Prepared for:

Walden Realty Limited Partnership
c/o Ms. Anne C. Evans
Barclay Damon LLP
200 Delaware Avenue, Suite 1200
Buffalo, New York

LaBella Project No. 2171935

December 4, 2017

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**Appendix 1** Field Logs
**Appendix 2** NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms
**Appendix 3** Laboratory Reports

# 1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) completed a Phase II Environmental Assessment (ESA) for the property located at 11075 Walden Avenue, Town of Alden, Erie County, New York (Site) in June 2017. The results of that assessment are summarized in LaBella's Phase II ESA report dated June 28, 2017. Subsequently, LaBella was retained by Walden Realty Limited Partnership (Client) to conduct a Supplemental Phase II ESA for the Site to further evaluate the extent of the chlorinated volatile organic compound (CVOC) impact identified proximate the west exterior of the Site Building (SB-14), and to evaluate whether the subsurface CVOC impact represents a soil vapor intrusion concern to the Site Building. This Supplemental Phase II ESA has been performed in conformance with the scope and limitations of ASTM Practice E 1903-11. It should be noted that the results of LaBella's June 28, 2017 Phase II ESA Report have been included within this report.

## *1.1 Special Terms & Conditions*

The findings of this Phase II ESA are based on the scope of work and project objectives as stated in LaBella's Proposal number P171885 dated July 21, 2017 and LaBella's Supplemental Work Authorization Form dated September 11, 2017.

## *1.2 Limitations & Exceptions*

Work associated with this Phase II ESA was performed in accordance with generally accepted environmental engineering and environmental contracting practices for this region. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts or reports.

In addition, LaBella cannot provide guarantees, certifications or warranties that the property is or is not free of environmental impairment or other regulated solid wastes. The Client shall be aware that the data and representative samples from any given soil sampling point, monitoring well or vapor sampling point may represent conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Site as a whole.

## *1.3 Reliance*

Walden Realty Limited Partnership may rely upon the findings of this report and should be aware of the agreed upon scope of work and the limitations associated with this Scope of Work.

# 2.0 BACKGROUND

## *2.1 Site Description & Features*

The Site consists of 2.6 acres of land located southwest of the intersection of Walden Avenue and Commerce Drive. The Site is developed with one single-story, 34,858 square foot vacant building (Site Building) which was constructed in approximately 1964. The exterior of the Site includes green space to the north of the Site Building and asphalt-paved parking areas to the east and south of the Site Building.

### *2.2 Physical Setting*

The Site is located at 11075 Walden Avenue, Town of Alden, Erie County, New York, within a predominantly suburban area. Groundwater flow at the Site appears to generally flow to the west.

### *2.3 Adjoining/Adjacent Property Use*

The following properties border the Site.

| Direction | Occupant |
|---|---|
| **North beyond Walden Avenue** | Napa Auto Care Center and a residential property |
| **South** | Undeveloped forested land |
| **East** | Griffith Energy and Hubco Pads |
| **West** | Undeveloped forested land |

### *2.4 Summary of Previous Studies by Others*

LaBella reviewed a Transaction Screen Environmental Site Assessment Report (Transaction Screen) prepared by Lender Consulting Services, Inc. (LCS) for the Site dated May 4, 2017. Based on the contents of that report, LCS identified the following potential environmental concerns (PECs).

- The Site was historically utilized as an industrial laundry facility, including dry cleaning, from at least 1988 (potentially as early as the 1970s) through 2006. The Site was listed within the Federal Drycleaners, Resource Conservation and Recovery Act (RCRA) Generator, and Aerometric Information Retrieval System's programs associated with the dry cleaning operations.
- The Site utilized a septic system prior to the mid-1980s. Floor drains noted throughout the Site Building may have previously discharged to an on-site septic system.
- Former on-site operations included printing.
- Although all available resources were consulted, the use of the Site Building in the 1960s is unknown.

Subsequently, LaBella completed a subsurface soil and groundwater investigation at the Site to evaluate the PECs above. The results of the subsurface soil and groundwater investigation are summarized within LaBella's Phase II ESA Report dated June 28, 2017. Based on the results of the subsurface soil and groundwater investigation, further investigation was recommended at the Site.

## 3.0 OBJECTIVE

The objective of this Supplemental Phase II ESA was to further evaluate the extent of CVOC impact identified within soil samples collected from soil boring SB-14, and evaluate whether the subsurface CVOC impact represents a soil vapor intrusion concern to the Site Building.

## 4.0 SCOPE OF WORK

LaBella completed the following scope of work at the Site.

### *4.1 Soil Borings*

LaBella advanced seventeen soil borings (SB-1 through SB-16 including SB-13A) on June 8 and 9, 2017 with a direct-push sampling system to evaluate the PECs identified within LCS' Transaction Screen dated May 4, 2017. Based on the findings of that investigation, on August 7, 2017, six additional soil borings (SB-17 through SB-22) were advanced at the Site to further evaluate the extent of the CVOC impact identified within soil boring SB-14. Based on the findings of that subsequent investigation, seven additional soil borings (SB-23 through SB-29) were advanced at the Site on October 5, 2017 to further evaluate the extent of CVOC impact identified beneath the Site Building.

Soil borings were advanced to depths ranging from five to 16 feet below the ground surface (ft bgs). The following soil borings: SB-9, SB-10, SB-11, SB-12, SB-17, SB-18 and SB-23 through SB-29 were advanced within the interior of the Site Building. Equipment refusal was encountered within soil boring SB-11 at a depth of 9.1 ft bgs due to a dense brick/concrete material and SB-13 at a depth of five ft bgs due to a dense boulder/rock in the subsurface. Additionally, equipment refusal was encountered in SB-23 through SB-29 at depths of 7.8 to 11 ft bgs due to a laminated clay layer. Soil boring SB-13A was advanced due to the shallow equipment refusal encountered in soil boring SB-13. Soil Boring Logs were completed for each soil boring and are included in Appendix 1. Soil boring locations are depicted on Figure 2.

Soils recovered from the soil borings were continuously assessed for visible impairment, olfactory indications of impairment and indication of detectable volatile organic compounds (VOCs) with a photoionization detector (PID). Select soil samples were placed in a cooler on ice and sent under standard chain of custody procedures to Alpha Analytical Laboratories (Alpha) in Westborough, Massachusetts and Test America in Amherst, New York. Generally, the soil samples collected were analyzed for Target Compound List (TCL) VOCs using United States Environmental Protection Agency (USEPA) Method 8260 and Resource Conservation and Recovery Act (RCRA) Metals using USEPA Method 7470/6010 as detailed within Table 5.

Upon completion of soil boring activities, the removed materials were returned to the bore holes from which they originated. Soil borings advanced within the interior of Site Building were completed with Quickrete to the preexisting surfaces.

### *4.2 Groundwater Monitoring Wells*

Nine temporary two-inch groundwater monitoring wells (MW-1 through MW-9) were installed within soil borings SB-1, SB-3, SB-4, SB-6, SB-7, SB-8, SB-13A, SB-14, and SB-16, respectively, to depths ranging from 12.2 to 14.75 ft bgs. Each well was completed with five feet of 0.010-slot screen. The screens associated with the monitoring wells were connected to an appropriate length of solid PVC well riser to complete the well. The annulus was sand packed with quartz sand to approximately two ft bgs. The remaining annulus was bentonite sealed to the ground surface. Field logs associated with groundwater monitoring activities are included in Appendix 1. Monitoring well locations are detailed on Figure 2.

Monitoring wells MW-1 and MW-3 were purged dry prior to sampling, while monitoring wells MW-2, and MW-4 through MW-9, included purging of at least three well volumes prior to sampling. The groundwater samples were placed in a cooler on ice, and sent under standard chain of custody procedures to Alpha. All nine groundwater samples were submitted for analysis of TCL VOCs using USEPA Method 8260.

### *4.3 Limited Vapor Intrusion Assessment*

On August 3, 2017, LaBella completed a soil vapor intrusion assessment at the Site. Prior to the soil vapor intrusion assessment at the Site on August 3, 2017, site representative Mr. Jim Doro identified the location of the former dry cleaning machine to LaBella. Such location is depicted on Figure 2 within the Appendix. The soil vapor sampling methods utilized were generally consistent with the October 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion. The soil vapor intrusion assessment included the collection of two sub-slab soil vapor samples (SS1 and SS2) and two indoor air samples (ID1 and ID2) within the northwest portion of the Site Building, and one outdoor ambient air sample (OD1) on the southwest exterior of the Site Building. The sub-slab soil vapor and indoor air sampling locations were selected to evaluate sub-slab and indoor air conditions in portions of the Site Building adjacent to the CVOC impacted soil identified within exterior soil boring SB-14 advanced during LaBella's June 28, 2017 Phase II ESA. The indoor air samples were collected immediately proximate to each sub-slab location. The outdoor air sample was collected from the upwind side of the Site Building.

Subsequently, on October 4, 2017, LaBella completed a supplemental soil vapor intrusion assessment within the north and south interior portions of the Site Building. The soil vapor intrusion assessment included the collection of three sub-slab soil vapor samples (SS3 through SS5) and three indoor air samples (ID3 through ID5) within the north and south interior portions of the Site Building, and one outdoor ambient air sample (OD2) on the southwest exterior of the Site Building. The indoor air samples were collected immediately adjacent to each sub-slab location. The outdoor air sample was collected from the upwind side of the Site Building. The sub-slab soil vapor and indoor air sampling locations were selected to evaluate sub-slab soil vapor and indoor air conditions throughout the Site Building. The locations of the sampling points are depicted on Figure 2.

A hammer drill was utilized to puncture the floor slab at five sub-slab soil vapor sampling point locations. Thereafter, polyethylene tubing and a seal was installed at each puncture location. An enclosure was then constructed and sealed to the sampling point tubing at each location. Subsequently, each enclosure was enriched with helium to conduct a tracer gas evaluation. The polyethylene tubing at each sub-slab soil vapor sampling point was then purged to ensure a representative sample of soil vapor was obtained. During purging, the purged air was monitored for helium via a Radio Detection MGD-2002 Helium Leak Detector. None of the sub-slab soil vapor sampling points exhibited concentrations of the tracer gas greater than 10%, thus all appeared to be sealed properly.

Subsequent to purging, the polyethylene tubing at each sub-slab soil vapor sampling point was connected to a PID to measure total VOCs. In addition, ambient air was also measured for total VOCs with the PID at each indoor and outdoor air sampling location. Table 4 located within the report appendix summarizes the field screening results. No elevated PID measurements were detected within the air sampling locations evaluated.

Summa canisters with laboratory calibrated regulators were connected to each of the five sub-slab soil vapor sampling points for soil vapor sample collection. Summa canisters with regulators were also used to collect indoor air samples proximate each of the sub-slab soil vapor sampling locations resulting in a total of five indoor air samples. Two summa canisters with regulators were utilized to collect outdoor ambient air samples at an upwind location proximate the southwest exterior corner of the Site Building. Each air/sub-slab soil vapor sample was collected continuously over an approximately eight-hour period and sent to Test America for analysis using USEPA test method TO-15.

Based on Site observations, wind was generally out of the southwest. As indicated above, the NYSDOH Indoor Air Quality Questionnaire and Building Inventory forms were completed as part of this assessment and are included in Appendix 2.

## 5.0 FINDINGS

### *5.1 Site Geology and Hydrology*

The concrete slab of the Site Building was observed at 0.6 ft bgs thick with a gravel sub-base beneath it to a depth of one ft bgs in the soil borings advanced inside the Site Building (SB-9 through SB-12, SB-17, SB-18 and SB-23 through SB-29). Non-native materials including asphalt surface material and sub-base gravel was encountered in exterior soil borings SB-1 through SB-8 to depths ranging from 0.3 to 0.6 ft bgs. A fill layer consisting of brown silty clay with trace gravel, rock, and concrete was encountered in soil borings SB-1, SB-2, SB-9, SB-10, SB-11, and SB-12 to depths ranging from one to two ft bgs. Based on the locations of the fill material encountered, it appears that such was utilized as fill material during construction of the building foundation. Native soils generally consisted of brown-red to brown-gray clayey silts typical of outwash plains and alluvial fans and were observed to a depth of 16 ft bgs. Saturated conditions were encountered in soil borings SB-1, SB-2, SB-4, SB-13A, and SB-14. Due to laminated clays (densely-packed) throughout the Site, saturated conditions were identified at a depth range of four to 10 ft bgs within the aforementioned soil borings.

### *5.2 Field Observations and Screening*

No visible impairment or olfactory indications of impairment were observed within the fill material encountered. Metallic-like odor was identified in SB-17 at depths ranging from 12-16 ft bgs. A strong solvent-type odor was identified with SB-25 at depths ranging from 2-7.9 ft bgs. No suspect visual or olfactory evidence of impairment was observed in any of the remaining soil borings advanced at the Site. The table below summarizes PID readings collected from the soil borings:

## Soil Boring PID Readings

| Soil Boring ID | Sample Interval (ft bgs) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 |
| SB-1 | 5.3* | 1.8 | 1.4 | 1.8 | 0.7 | 1.7 | 1.2 | 2.1 | 1.9 | 1.8 | 0.8 | 1.3 | 1.2 | 1.4 | 1.1 | -- |
| SB-2 | 1.3 | 0.9* | 1.4 | 1.4 | 1.0 | 1.7 | 2.1 | 2.2 | 1.7 | 1.8 | 1.8 | 0.9 | 1.3 | 0.8 | 1.8 | -- |
| SB-3 | -- | -- | -- | -- | -- | 1.5 | 1.7 | 1.6 | 1.6 | 2.1* | 2.0 | 1.4 | 1.4 | 1.4 | 1.1 | -- |
| SB-4 | 0.8 | 3.0 | 2.6 | 2.4 | 2.8 | 3.3* | 3.1 | 1.6 | 2.4 | 2.0 | 3.0 | 2.5 | 2.2 | 2.6 | 2.5 | -- |
| SB-5 | 1.5 | 1.8 | 2.8 | 3.3 | 1.7 | 3.2 | 2.6 | 2.1 | 2.0 | 2.6 | 2.9 | 2.7 | 2.2 | 1.6 | 2.6 | -- |
| SB-6 | 3.5 | 1.8 | 1.5 | 1.8 | 1.8 | 3.1 | 3.0 | 3.4 | 3.8 | 4.5 | 5.0* | 3.6 | 2.6 | 2.8 | 3.0 | -- |
| SB-7 | -- | 2.6 | 2.2 | 2.7 | 2.8* | 2.5 | 2.5 | 1.5 | 1.9 | 2.1 | 2.3 | 2.4 | 1.8 | 1.9 | 1.6 | -- |
| SB-8 | 2.1 | 2.9 | 3.1* | 2.6 | 2.4 | 2.1 | 2.2 | 1.9 | 2.4 | 2.1 | 1.4 | 1.8 | 2.1 | 2.0 | 1.9 | -- |
| SB-9 | 3.7 | 3.4 | 6.4 | 5.4 | 3.2 | 3.8 | 3.2 | 3.8 | 3.3 | 3.2 | 5.6 | 5.1 | 3.1 | 3.9 | 3.9 | -- |
| SB-10 | 1.8 | 1.9 | 2.5 | 2.0 | 1.6 | 2.6 | 2.7 | 2.0 | 2.5 | 1.8 | 2.3 | 2.1 | 2.5 | 2.5 | 2.3 | -- |
| SB-11 | 2.4 | 3.8* | 2.2 | 1.6 | 1.4 | 2.1 | 1.8 | 2.4 | 2.3 | 2.2 | -- | -- | -- | -- | -- | -- |
| SB-12 | 4.8* | 3.3 | 2.2 | 2.0 | 1.2 | 1.3 | 1.8 | 2.3 | 2.5 | 2.5 | 1.9 | 1.8 | 2.3 | 1.9 | 1.8 | -- |
| SB-13 | 1.2 | 1.3 | 1.8 | 1.4 | 1.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SB-13A | 0.0 | 0.0 | 0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| SB-14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| SB-15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| SB-16 | 0.0 | 0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- |
| SB-17 | 158* | | 27 | | 59 | | 20.2 | | 40.3 | | 57.2 | | 8.9 | | 31.2* | |
| SB-18 | 4.4 | | 4.4 | | 2.6 | | 4.3 | | 5.9 | | 8.2 | | 10.0* | | 4.7 | |
| SB-19 | 0.9 | | 0.7 | | 1.4 | | 1.2 | | 1.1 | | 0.4 | | 0.9 | | 1.8* | |
| SB-20 | 0.3 | | 0.5 | | 0.0 | | 0.0 | | 1.6* | | 1.0 | | 0.0 | | 0.0 | |
| SB-21 | 1.8 | | 1.0 | | 0.4 | | 0.2 | | 0.0 | | 0.0 | | 0.9 | | 1.2* | |
| SB-22 | 2.1 | | 0.7 | | 2.1* | | 1 | | 0.9 | | 0.5 | | -- | | -- | |
| SB-23 | 1.4* | | 0.1 | | 0.1 | | 0.3 | | 0.3 | | 0.1 | -- | -- | | -- | |
| SB-24 | 13.4* | | 2.8 | | 3.0 | | 12.4 | | 2.2 | -- | -- | | -- | | -- | |
| SB-25 | 942* | | 3,674* | | 524 | | 275 | -- | -- | | -- | | -- | | -- | |
| SB-26 | 46.1* | | 6.2 | | 15.4 | | 10.2 | | 1.7 | -- | -- | | -- | | -- | |
| SB-27 | 4.4 | | 4.6 | | 15.1* | | 4.2 | | -- | | -- | | -- | | -- | |
| SB-28 | 6.2* | | 4.6 | | 1.7 | | 1.7 | -- | -- | | -- | | -- | | -- | |
| SB-29 | 4.4* | | 3.8 | | 1.7 | | 1.4 | -- | -- | | -- | | -- | | -- | |

*Notes:*

1. *All PID readings were collected utilizing a Minirae 3000 photoionization detector and are expressed in parts per million.*
2. *The PID screening is performed as a method of determining the general presence or absence of VOCs in soil, and to provide a basis for selecting samples for laboratory analysis. The readings obtained provide only an indication of the relative levels of VOC presence in the soil, and are not considered to be a direct quantization of actual soil VOC concentration.*
3. *"--" denotes boring not completed to above-listed depth or insufficient recovery occurred at specified depth.*
4. *"*" denotes a soil sample was submitted for laboratory analysis from this interval.*

## *5.3 Laboratory Analytical Results*

### *5.3.1 Soil Laboratory Results*

Seventeen VOCs were detected at concentrations above laboratory method detection limits. None of these VOCs were identified above NYSDEC Commissioner's Policy (CP)-51 Soil Cleanup Guidance (SCG) and Part 375 Commercial-Use Soil Cleanup Objectives (SCOs). However, several elevated concentrations of CVOCs (cis – 1,2- dichloroethene, trans-1,2-dichloroethene, tetrachloroethene and trichloroethene) were identified amongst the soil samples collected from SB-14, SB-17, SB-18 and SB-23 through SB-26 with total VOC concentrations ranging from 176.7 micrograms per kilogram (µg/kg) to 140,102.2 µg/kg. Soil laboratory results are summarized in Table 1. Copies of the laboratory reports are included in Appendix 3.

### *5.3.2 Groundwater Laboratory Results*

Based on a review of the laboratory analytical results, several VOCs were detected at concentrations above laboratory method detection limits; however, a majority of these concentrations were identified below NYSDEC Division of Water Technical And Operations Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) with the exception of acetone in samples MW-2, MW-4, MW-5, MW-6, and MW-7 at 110 micrograms per liter (µg/L), 63 µg/L, 58 µg/L, 76 µg/L, and 62 µg/L, respectively. It should be noted that acetone is a common laboratory contaminant. Groundwater laboratory results are summarized in Table 2. Copies of the laboratory report are included in Appendix 3.

### *5.3.3 Soil Vapor & Indoor Air Laboratory Results*

Laboratory results associated with the vapor intrusion assessment are summarized in Table 3 and the laboratory analytical reports are included in Appendix 3. As depicted in Table 3, several VOCs were detected in each sub-slab soil vapor and indoor air sample. The NYSDOH has established guidance documents for determining appropriate action to be taken to address current and potential soil vapor intrusion for a limited number of parameters. The NYSDOH guidance includes matrices to evaluate the results of sub-slab soil vapor and indoor air samples. The May 2017 updated Soil Vapor/Indoor Air Matrices A, B, and C are included following the Tables in the Appendices.

The following table identifies the elevated concentrations of CVOCs detected within the soil vapor and indoor air samples collected and submitted for laboratory analysis.

| **Sample ID** | **SS1** | **ID1** | **SS2** | **ID2** | **SS3** | **ID3** | **SS4** | **ID4** | **SS5** | **ID5** |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | 8/3/17 | 8/3/17 | 8/3/17 | 8/3/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 |
| Location | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| **VOCs** (micrograms per cubic meter) | | | | | | | | | | |
| Trichloroethene (TCE) | 13,000 | 3.5 | 5,600 | 3.1 | 3.2 | 3.2 | 3.3 | 3.5 | 4.5 | 2.4 |
| Tetrachloroethene (PCE) | 480,000 | 19 | 52,000 | 12 | 72 | 22 | 30 | 25 | 54 | 15 |
| Cis-1,2-dichloroethene | 91,000 | 2.2 | 6,700 | 1.2 | 4.2 | 5.6 | 3.5 | 5.6 | 0 | 3.6 |

The NYSDOH has established an indoor air guideline of 30 micrograms per cubic meter (µg/$m^3$) for PCE and 2 µg/$m^3$ for TCE. The indoor air concentrations of TCE exceeded the NYSDOH guideline throughout the Site Building. The Occupational Safety and Health Administration (OSHA) indoor air guideline applicable to adult workers; however, is 535,000 µg/$m^3$ and the American Conference of Governmental Industrial Hygienists (ACGIH) indoor air guideline for TCE is 54,000 µg/$m^3$. The indoor air concentrations of TCE area, therefore, are orders of magnitude lower than the applicable OSHA and ACGIH guidelines.

Concentrations of several additional VOCs were detected above laboratory method detection limits within the indoor air and sub-slab soil vapor samples collected; however, such were either detected at concentrations below NYSDOH Guidance, or current NYSDOH Guidance has not established standards for such VOCs. No elevated concentrations of VOCs were detected within the outdoor ambient air samples collected from OD1 and OD2.

Based on the comparison of laboratory analytical results and NYSDOH guidance matrices, mitigation is required within the areas of SS1, ID1, SS2 and ID2. Additionally, identify source and resample or mitigation is required within the areas of SS3, ID3, SS4, ID4, SS5 and ID5.

## 6.0 CONCLUSIONS

Based on the results of this assessment, LaBella concludes the following.

- Although not identified at concentrations above NYSDEC CP-51 SCG and Part 375 Commercial-Use SCOs, several CVOCs were identified at elevated concentrations throughout areas of the Site suggesting CVOC-impacted soil is located beneath the west-central portion of the Site Building and proximate the west exterior of the Site Building. Such elevated concentrations were identified proximate SB-25, which was reported as the former location of a dry cleaning machine. Based on laboratory analytical results and field observations, elevated CVOC concentrations were identified at depths of 0.6-4 ft bgs. Laboratory analytical results from soil borings advanced adjacent SB-25 identified decreasing VOC concentrations when compared to VOC concentrations identified within SB-25. Therefore, the extent of elevated VOC concentrations appears to be generally defined and limited beneath the west-central portion of the Site Building proximate the reported former location of the dry cleaning machine.
- While nine VOCs were detected above laboratory method detection limits in the groundwater samples collected throughout the Site, the concentrations of VOCs detected do not exceed applicable NYSDEC guidance. As such, the identified concentrations of VOCs in the Site groundwater do not suggest that groundwater has been adversely impacted by CVOC-impacted soil located beneath the Site Building and proximate the west exterior of the Site Building. Further evaluation of groundwater conditions at the Site does not appear warranted at this time.
- Elevated concentrations of TCE, PCE, and cis-1,2-dichloroethene were detected within all of the indoor air and sub-slab soil vapor samples collected and submitted for laboratory analysis as part of this assessment. According to NYSDOH Soil Vapor Guidance, mitigation is required within the areas of SS1, ID1, SS2 and ID2. Additionally, identify source and resample or mitigation is required within the areas of SS3, ID3, SS4, ID4, SS5 and ID5.

## 7.0 RECOMMENDATIONS

- A soil vapor mitigation system should be designed and installed within the Site Building to mitigate soil vapor exposures to Site Building occupants.
- Excavation to the extent feasible and proper disposal of the CVOC impacted soil should be considered to reduce soil vapor concerns within the Site Building in the future. Furthermore, removal of the CVOC impacted soil will reduce the potential for migration of subsurface CVOC impact.
- Legal counsel should consulted to evaluate whether the subsurface CVOC impact identified at the Site constitutes a reporting obligation to the NYSDEC.

## 8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We appreciate the opportunity to serve your professional environmental engineering needs. If you have any questions please do not hesitate to contact me at (716) 840-2548.

Report Approved By:

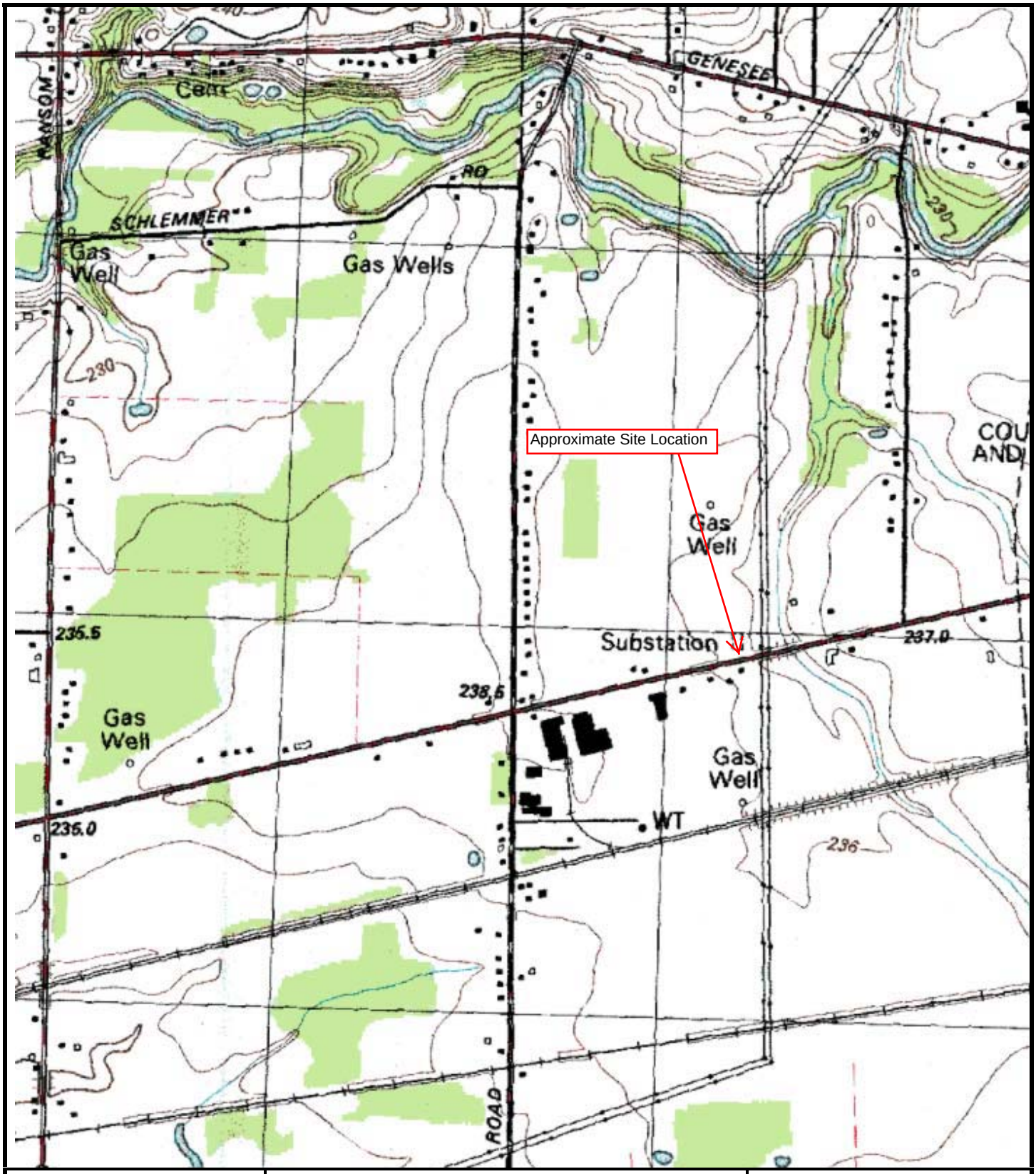
Adam Zebrowski
Director of Environmental Due Diligence
Project Manager
Environmental Professional

Report Prepared By:

Shannon Dalton
Environmental Analyst

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

# FIGURES




N

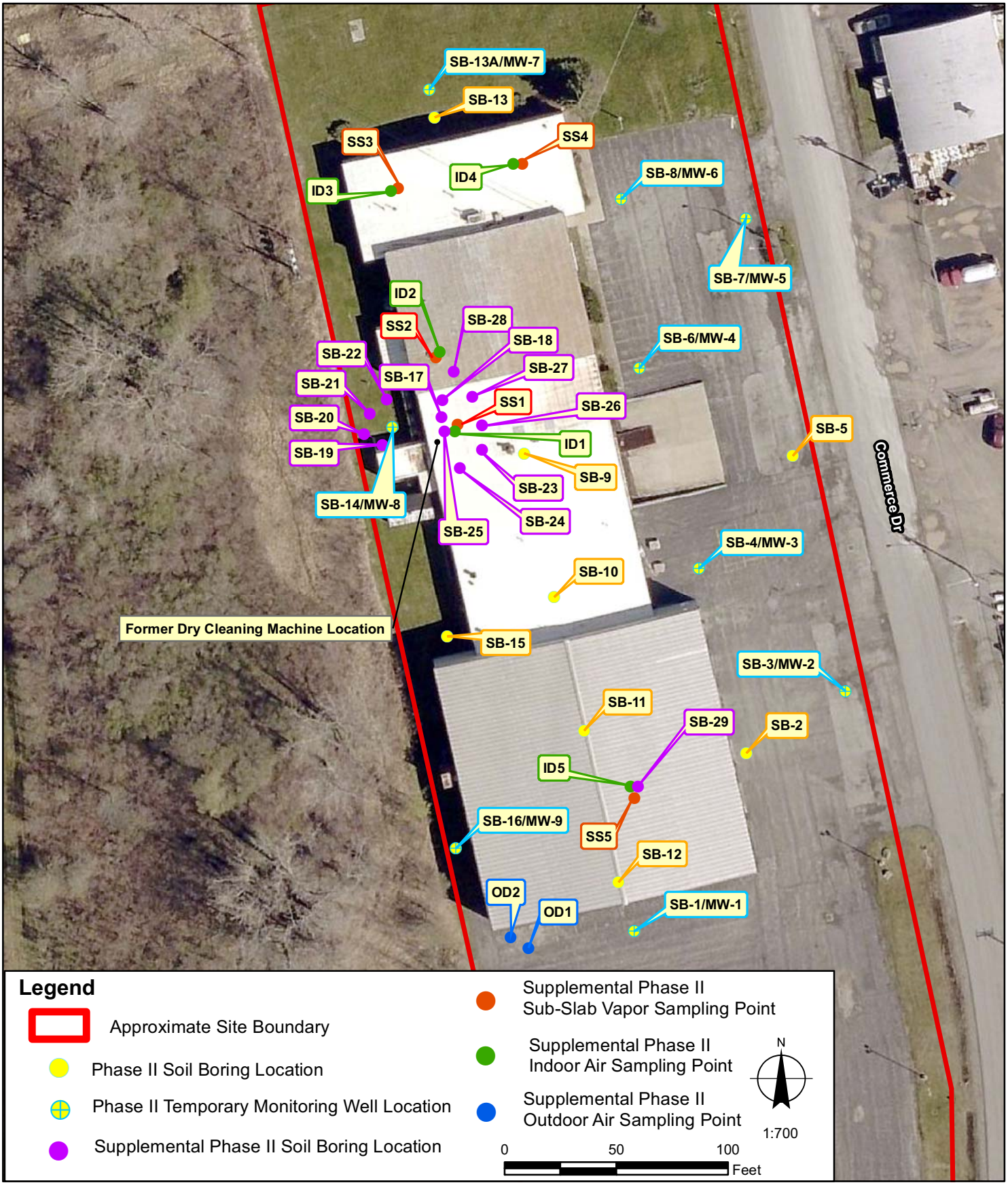
NOT TO SCALE

# FIGURE 1
## SITE LOCATION MAP

**11075 Walden Avenue**
**Alden, New York**

LABELLA

PROJECT NO. 2171935




Path: J:\Walden Realty\2171935 - 11075 Walden Ave Supp Ph II\Reports\Supplemental Phase II 10-3-17\Figures\Map.2017.9.8.Fig2.SiteInvestigation.mxd

PROJECT/DRAWING NUMBER

2171935

FIGURE 2

DRAWING TITLE

**SITE INVESTIGATION MAP**

ISSUED FOR: REVIEW

DATE: OCTOBER 2017

DESIGNED BY: SND

DRAWN BY: SND

REVIEWED BY: CK

PROJECT/CLIENT

**PHASE II ESA**

**11075 WALDEN AVENUE**
**ALDEN, NEW YORK**


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# TABLES

**Table 1**
**11075 Walden Avenue**
**Alden, New York**
**Phase II ESA**
**Summary of Subsurface Soil Analytical Results**
**(Detected Analytes Only)**

| Sample ID | SB-1 | SB-2 | SB-3 | SB-4 | SB-6 | SB-7 | SB-8 | SB-11 | SB-12 | SB-13A | SB-14 | SB-16 | SB-17 | SB-17 | SB-18 | SB-19 | SB-20 | SB-21 | SB-22 | SB-23 | SB-24 | SB-25 | SB-25 | SB-26 | SB-27 | SB-28 | SB-29 | CP-51 SCG | Part 375 Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth | 0.3-1 ft bgs | 1-2 ft bgs | 9-10 ft bgs | 5-6 ft bgs | 10-11 ft bgs | 4-5 ft bgs | 2-3 ft bgs | 1-2 ft bgs | 0.6-1 ft bgs | 2-3 ft bgs | 8-9 ft bgs | 1-2 ft bgs | 0.6-2 ft bgs | 14-16 ft bgs | 12-14 ft bgs | 14-16 ft bgs | 8-10 ft bgs | 14-16 ft bgs | 4-6 ft bgs | 0.6-2 ft bgs | 0.6-2 ft bgs | 0.6-2 ft bgs | 2-4 ft bgs | 0.6-2 ft bgs | 4-6 ft bgs | 0.6-2 ft bgs | 0.6-2 ft bgs | | |
| Sample Date | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | | |
| **Volatile Organic Compounds (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 2.7 J | NA | < | < | 6.7 J | < | 22 | NA | NA | 56 | < | < | < | < | < | 9 J | < | 6.7 J | < | 43 | 23 | 40 | 38 | < | 14 | 25 | 37 | NL | < |
| Chlorobenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 4.9 | 5.7 | < | < | < | < | NL | 500,000 |
| Cyclohexane | 0.44 J | NA | < | 0.35 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 0.7 J | NL | NL |
| 1,1-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 10 | 5.9 | < | < | < | < | NL | 500,000 |
| cis-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 1.1 | < | 120 | < | 140 | < | < | < | < | 56 | 29 | < | 7,600 | < | 0.9 J | 0.45 J | 24 | NL | 500,000 |
| trans-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | 0.4 J | < | < | < | < | < | < | 2.3 J | 0.3 J | 27 | 11 | < | < | < | 1.5 J | NL | 500,000 |
| Ethylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 1.9 J | 4.7 | < | < | < | < | 1,000 | 390,000 |
| Isopropylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | 0.59 J | < | < | < | < | 2,300 | NL |
| Methylcyclohexane | 0.58 J | NA | < | 0.33 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NL | NL |
| Methylene chloride | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | 540 J B | 19 J B | < | < | < | < | < | < | < | < | < | < | < | < | NL | 500,000 |
| Methyl ethyl ketone (2-Butanone) | < | NA | < | < | < | < | < | NA | NA | 9.2 | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NL | 500,000 |
| 4-Methyl-2-pentanone | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | 1.9 J | < | < | < | < | NL | NL |
| Tetrachloroethene | 1.3 | NA | < | < | < | < | < | NA | NA | < | 170 | < | 130,000 | < | 2,900 | 0.59 J | < | < | < | 6,200 | 64,000 | 140,000 | 49,000 | 7,700 | 15 B | 6.4 B | 0.99 J B | NL | 150,000 |
| Toluene | 0.24 J | NA | < | < | < | < | < | NA | NA | < | < | < | 0.28 J | < | < | < | < | < | < | < | < | 7 | 15 | < | < | < | < | 700 | 500,000 |
| Trichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 5.6 | < | 21 | < | 82 | < | < | < | < | 44 | 8.1 | < | 1,900 | 4.1 | < | < | < | NL | 200,000 |
| Vinyl Chloride | < | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 4.1 | 35 | < | < | < | 2.4 J | NL | 13,000 |
| Total Xylenes | < | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 7.3 | 22 | < | < | < | < | 260 | 500,000 |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 2.4 J | 4.87 | NA | NA | NA | NA | NA | 2.06 | 4.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 16 |
| Barium | 22.6 | 104 | NA | NA | NA | NA | NA | 11.3 | 38.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 400 |
| Cadmium | 0.107 | 0.307 J | NA | NA | NA | NA | NA | 0.715 | 0.158 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 9.3 |
| Chromium | 7.37 | 8.84 | NA | NA | NA | NA | NA | 9.38 | 15.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 400/1,500* |
| Lead | 8.2 | 20.4 | NA | NA | NA | NA | NA | 20.3 | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 1,000 |
| Mercury | < | 0.04 J | NA | NA | NA | NA | NA | < | 0.02 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 2.8 |
| Selenium | 0.4 J | 0.627 J | NA | NA | NA | NA | NA | 0.198 J | 0.869 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 1,500 |

CP-51 SCG = New York State Department of Environmental Conservation (NYSDEC) Commissioner Policy-51 (CP-51) Soil Cleanup Guidance (SCG) for Gasoline and Fuel Oil Contaminated Soils, Tables 2 and 3 (December 2010)

Part 375 Commercial Use SCOs = NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

< = Not detected

NL = Not listed

NA = Not analyzed

ft bgs = Feet below the ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

* = Chromium, hexavalent/Chromium, trivalent (The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.)

B = The compound was found in the blank and sample.

**Table 2**

**11075 Walden Avenue**

**Alden, New York**

**Phase II ESA**

**Summary of Groundwater Analytical Results**

**(Detected Analytes Only)**

| Sample ID | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | NYSDEC TOGS |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | |
| **Volatile Organic Compounds (ug/L)** | | | | | | | | | | |
| Acetone | 18 | 110 | 18 | 63 | 58 | 76 | 62 | 47 | 30 | 50 |
| Benzene | 0.34 J | 0.34 J | 0.5 | 0.23 J | 0.38 J | 0.24 J | < | 0.28 J | 0.18 J | 1 |
| Carbon Disulfide | 1.3 J | 3 J | < | 1.8 J | 13 | < | < | 3.6 J | < | NL |
| Cyclohexane | < | < | 0.43 J | < | 0.41 J | < | < | < | < | NL |
| 2-Hexanone | < | < | < | < | < | < | 2 J | < | < | 50 |
| Methylcyclohexane | < | < | 0.63 J | < | < | < | < | < | < | NL |
| Methyl ethyl ketone (2-Butanone) | < | 27 | 4.2 J | 15 | 11 | 14 | 14 | 12 | 5.8 | 50 |
| Tetrachloroethene | 0.36 J | < | 0.31 J | < | < | < | < | 0.89 | < | 5 |
| Toluene | < | < | 0.75 J | < | < | < | < | < | < | 5 |

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

< = Not detected

NL = Not listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

ug/L = Micrograms per liter

Concentrations in gray exceed NYSDEC TOGS

**Table 3**
**11075 Walden Avenue, Alden, New York**
**Phase II ESA**
**Summary of Soil Vapor Instrusion Analyticial Results**
**(Detected Analytes Only)**

| Sample ID | SS1 | ID1 | SS2 | ID2 | OD1 | SS3 | ID3 | SS4 | ID4 | SS5 | ID5 | OD2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | 8/3/2017 | 8/3/2017 | 8/3/2017 | 8/3/2017 | 8/3/2017 | 10/4/2017 | 10/4/2017 | 10/4/2017 | 10/4/2017 | 10/4/2017 | 10/4/2017 | 10/4/2017 |
| Location | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Outdoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Outdoor Air |
| **Volatile Organic Compounds (µg/m3)** | | | | | | | | | | | | |
| Dichlorodifluoromethane | < | 2.4 J | < | 2.2 J | 2.1 J | 2.8 J | 2.4 J | 2.5 J | 2.5 | < | 2.4 J | 2.3 J |
| Freon 22 | < | 9.9 | < | 6.7 | 1 J | 3.7 | 2.9 | 3.7 | 3.2 | < | 7.9 | 0.97 J |
| Chloromethane | < | 1.1 | < | 1 J | 1.2 | 1.1 J | 0.92 J | 0.97 J | 1 J | < | 0.99 J | 1.1 |
| n-Butane | < | 49 | 320 J | 36 | 1.1 J | 110 | 32 | 100 | 35 | 3,400 | 63 | 1.4 |
| Trichlorofluoromethane | < | 1.3 | < | 1.2 | 1 J | 1.5 J | 1.4 | 1.3 J | 1.4 | < | 1.3 | 1.3 |
| Freon TF | < | 0.39 J | < | 0.4 J | 0.36 J | 0.65 J | 0.58 J | 0.58 J | 0.6 J | < | 0.58 J | 0.56 J |
| Acetone | < | 15 | < | 12 | 12 | 100 | 9.78 J | 87 | 18 | 170 J | 10 J | 26 |
| Isopropyl alcohol | < | 0.94 J | < | 0.77 J | 0.64 J | 7.8 J | 1.2 J | 2.4 J | 0.76 J | < | 0.85 J | 0.94 J |
| Carbon disulfide | < * | 0.24 J* | 180 J* | 0.22 J* | <* | 3 J | 0.41 J | 3.5 | 0.4 J | 19 J | 0.089 J | 0.11 J |
| Methylene chloride | < | 0.47 J | < | 0.36 J | 0.36 J | 0.55 J | 0.37 J | 0.57 J | 0.31 J | < | 0.61 J | 0.34 J |
| n-Hexane | < | 1.9 | < | 1.5 | < | 37 | 1.7 | 38 | 1.8 | 1,900 | 3.4 | < |
| Methyl Ethyl Ketone | < | 1.9 | < | 1.1 J | 1.8 | 17 | 1.4 J | 18 | 3.5 | 23 J | 1.5 | 5.7 |
| cis-1,2-Dichloroethene | 91,000 | 2.2 | 6,700 | 1.2 | < | 4.2 | 5.6 | 3.5 | 5.6 | < | 3.6 | < |
| 1,2-Dichloroethene, Total | 91,000 | 2.2 | 6,700 | 1.2 J | < | 4.4 | 5.6 | 3.4 | 5.6 | < | 3.6 | < |
| Chloroform | < | < | < | < | < | 0.52 J | < | 0.8 J | < | < | < | < |
| 1,1,1-Trichloroethane | < | < | < | < | < | 0.43 J | < | 0.48 J | 0.14 J | < | < | < |
| Cyclohexane | < | 0.22 J | < | 0.17 J | < | 11 | 0.17 J | 16 | 0.2 J | 2,200 | 0.44 J | < |
| Carbon tetrachloride | < | 0.39 J | < | 0.39 J | 0.39 J | 0.45 J | 0.41 J | 0.34 J | 0.45 J | < | 0.4 J | 0.4 J |
| 2,2,4-Trimethylpentane | < | 0.24 J | < | < | < | 1.2 J | 0.24 J | 1.5 J | 0.22 J | 23 J | 0.33 J | < |
| Benzene | < | 0.32 J | < | 0.26 J | 0.23 J | 7.2 | 0.31 J | 7.5 | 0.34 J | 71 | 0.35 J | 0.28 J |
| n-Heptane | < | 0.63 J | < | 0.48 J | < | 29 | 0.53 J | 28 | 0.58 J | 1,500 | 1 | < |
| Trichloroethene | 13,000 | 3.5 | 5,600 | 3.1 | < | 3.2 | 3.2 | 3.3 | 3.5 | 4.5 J | 2.4 | < |
| Methyl isobutyl ketone | < | < | < | 3.6 | < | 7.3 | < | 7.9 | 0.59 J | < | < | 0.32 J |
| Toluene | < | 0.55 J | 620 | 0.55 J | 0.51 J | 17 | 1.1 | 23 | 1.3 | 310 | 0.95 | 0.54 J |
| Tetrachloroethene | 480,000 | 19 | 52,000 | 12 | 0.14 J | 72 | 22 | 30 | 25 | 54 J | 15 | 0.11 J |
| Methyl Butyl Ketone (2-Hexanone) | < | 0.48 J | < | < | < | 5.3 | < | 5.2 | 0.64 J | < | < | 1.3 J |
| Ethylbenzene | < | < | 210 J | < | 0.15 J | 2.1 | 0.19 J | 2.6 | 0.32 J | 71 | 0.19 J | < |
| m,p-Xylene | < | 0.4 J | 520 J | 0.41 J | 0.49 J | 11 | 0.67 J | 10 | 1.4 J | 340 | 0.66 J | 0.41 J |
| o- Xylene | < | 0.19 J | 220 J | 0.19 J | 0.19 J | 3.6 | 0.3 J | 3.5 | 0.59 J | 100 | 0.29 J | < |
| Xylene (total) | < | 0.59 J | 740 J | 0.6 J | 0.66 J | 15 | 0.96 J | 13 | 2 J | 440 | 0.94 J | 0.4 J |
| Styrene | < | < | < | < | 0.18 J | 0.72 J | < | 0.68 J | < | < | < | < |
| Cumene | < | < | < | < | < | 0.83 J | < | 1 J | < | 20 J | < | < |
| n-Propylbenzene | < | < | < | < | < | 1.1 J | < | 0.89 J | < | 16 J | < | < |
| 4-Ethyltoluene | < | < | < | < | < | 1.5 J | < | 1.3 J | 0.31 J | 9.1 J | < | < |
| 1,3,5-Trimethylbenzene | < | < | < | < | < | 1.7 J | < | 1.3 J | 0.26 J | 20 J | 0.2 J | < |
| 2-Chlorotoluene | < | < | < | < | < | < | < | < | 0.39 J | < | < | < |
| 1,2,4-Trimethylbenzene | < | 0.46 J | < | < | < | 3.8 | 0.35 J | 3.7 | 1.2 | 18 J | 0.6 J. | < |
| 4-Isopropyltoluene | < | < | < | < | < | < | < | < | 0.39 J | < | < | < |
| 1,4-Dichlorobenzene | < | 1.5 | < | 0.71 J | < | < | 0.57 J | < | 0.52 J | < | < | < |
| Naphthalene | < | < | < | < | < | 1.1 | < | < | < | < | < | < |

Volatile Organic Compounds by USEPA Method TO-15

J = Result is less than the reported limit or requested limit (RL) but greater than or equal to the method detection limit (MDL) and **the concentration is an approximate value.**

* = Laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) is outside acceptable limits.

($\mu g/m^3$) = micrograms per cubic meter

< = Not detected

**Table 4**
**Limited Vapor Intrusion Assessment**
**11075 Walden Avenue, Alden, New York**
**Summary of SUMMA Canister Investigation**

| Sample ID | SS1 | ID1 | SS2 | ID2 | OD1 | SS3 | ID3 | SS4 | ID4 | SS5 | ID5 | OD2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Middle interior portion of Site Building | | North interior of Site Building | | South exterior of Site Building | West interior office area (northwest portion of Site Building) | | East interior office area (northeast portion of Site Building) | | South interior portion of Site Building | | Southwest exterior of Site Building |
| Date | 8/3/17 | 8/3/17 | 8/3/17 | 8/3/17 | 8/3/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 | 10/4/17 |
| Canister Number | 3232 | 4555 | 5052 | 2602 | 3835 | 3659 | 3286 | 3265 | 5066 | 5017 | 4542 | 5110 |
| Regulator Number | 3954 | 5000 | 3934 | 5219 | 3048 | 5186 | 5168 | 4747 | 5016 | 5000 | 2761 | 3752 |
| PID Reading (parts per million) | 0 | 0 | 0 | 0 | 0 | 5.5 | 0.1 | 2.5 | 0 | 17.2 | 0 | 0 |
| Start Time | 8:35 | 8:35 | 8:42 | 8:42 | 8:45 | 10:00 | 10:00 | 10:05 | 10:05 | 10:20 | 10:20 | 10:25 |
| Reading | -30 | -31 | -31 | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -30 |
| End Time | 16:40 | 16:40 | 16:45 | 16:45 | 16:50 | 18:00 | 18:00 | 18:05 | 18:05 | 18:20 | 18:20 | 18:25 |
| Reading | -6 | -8 | -8 | -8 | -8 | -5 | -5 | -8 | -7 | -9 | -10 | -15 |

-Date: 8/3/17
-Temperature: 74 degrees
-Barometric Pressure: 30.1
-Relative Humidity: 67%

-Date: 10/4/17
-Temperature: 73 degrees
-Barometric Pressure: 30.3
-Relative Humidity: 90 %

**Table 5**
**11075 Walden Avenue, Alden, New York**
**Phase II Environmental Site Assessment**
**Laboratory Analysis Performed**
**(Detected Compounds Only)**

| Sample ID | Sample Depth (ft bgs) | Date Collected | Laboratory Analyses |
|---|---|---|---|
| SB-1 | 0.3-1 | 6/8/2017 | TCL VOCs<br>RCRA Metals |
| SB-2 | 1-2 | 6/8/2017 | RCRA Metals |
| SB-11 | 1-2 | 6/9/2017 | |
| SB-12 | 0.6-1 | 6/9/2017 | |
| SB-3 | 9-10 | 6/8/2017 | TCL VOCs |
| SB-4 | 5-6 | 6/8/2017 | |
| SB-6 | 10-11 | 6/8/2017 | |
| SB-7 | 4-5 | 6/8/2017 | |
| SB-8 | 2-3 | 6/8/2017 | |
| SB-13A | 2-3 | 6/9/2017 | |
| SB-14 | 8-9 | 6/9/2017 | |
| SB-16 | 1-2 | 6/9/2017 | |
| SB-17 | 0.6-2 | 8/7/2017 | |
| | 14-16 | 8/7/2017 | |
| SB-18 | 12-14 | 8/7/2017 | |
| SB-19 | 14-16 | 8/7/2017 | |
| SB-20 | 8-10 | 8/7/2017 | |
| SB-21 | 14-16 | 8/7/2017 | |
| SB-22 | 4-6 | 8/7/2017 | |
| SB-23 | 0.6-2 | 10/5/2017 | |
| SB-24 | 0.6-2 | 10/5/2017 | |
| SB-25 | 0.6-2 | 10/5/2017 | |
| | 2-4 | 10/5/2017 | |
| SB-26 | 0.6-2 | 10/5/2017 | |
| SB-27 | 4-6 | 10/5/2017 | |
| SB-28 | 0.6-2 | 10/5/2017 | |
| SB-29 | 0.6-2 | 10/5/2017 | |

TCL VOCS = Target Compound List (TCL) VOCs using United States Environmental Protection Agency (USEPA) Method 8260

RCRA Metals = RCRA Metals using USEPA Method 7470/6010

ft bgs = feet below ground surface

# Soil Vapor/Indoor Air Matrix A

May 2017

**Analytes Assigned:**
Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*c*12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m$^3$)** | | |
|---|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m$^3$)** | < 0.2 | 0.2 to < 1 | 1 and above |
| < 6 | 1. No further action | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 6 to < 60 | 4. No further action | 5. MONITOR | 6. MITIGATE |
| 60 and above | 7. MITIGATE | 8. MITIGATE | 9. MITIGATE |

**No further action:** No additional actions are recommended to address human exposures.

**Identify Source(s) and Resample or Mitigate:** We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

**Monitor:** We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**Mitigate:** We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**These general recommendations are made with consideration being given to the additional notes on page 2.**

# Soil Vapor/Indoor Air Matrix B

May 2017

**Analytes Assigned:**
Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m$^3$)** | | |
|---|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m$^3$)** | < 3 | 3 to < 10 | 10 and above |
| < 100 | 1. No further action | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 100 to < 1,000 | 4. No further action | 5. MONITOR | 6. MITIGATE |
| 1,000 and above | 7. MITIGATE | 8. MITIGATE | 9. MITIGATE |

**No further action:** No additional actions are recommended to address human exposures.

**Identify Source(s) and Resample or Mitigate:** We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

**Monitor:** We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**Mitigate:** We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**These general recommendations are made with consideration being given to the additional notes on page 2.**

# Soil Vapor/Indoor Air Matrix C

May 2017

**Analytes Assigned:**
Vinyl Chloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m$^3$)** | |
|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m$^3$)** | < 0.2 | 0.2 and above |
| < 6 | 1. No further action | 2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 6 to < 60 | 3. MONITOR | 4. MITIGATE |
| 60 and above | 5. MITIGATE | 6. MITIGATE |

**No further action:** No additional actions are recommended to address human exposures.

**Identify Source(s) and Resample or Mitigate:** We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

**Monitor:** We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**Mitigate:** We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**These general recommendations are made with consideration being given to the additional notes on page 2.**

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

# APPENDIX 1

**Field Logs**

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130
Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-1

Sheet 1 of 1
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17

TIME: 900 to 1000
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.3-1 | | 10" | 5.3 | 0.3' | No odors or staining | 0-0.3' Asphalt parking lot surface. |
| 1-2 | | 10" | 1.8 | 1' | " " | 0.3'-1' Brown Silty clay w/ trace gravel & concrete |
| 2-3 | | 10" | 1.4 | - | " " | 1'-5' Brownish Red Silty clay w/ trace gravel (HS, LP, MJ). |
| 3-4 | | 10" | 1.8 | - | " " | 5'-7' Brownish Red Silty clay w/ trace gravel (HP, MS, Sat) |
| 4-5 | | 10" | 0.7 | 5' | " " | 7'-12' Brownish Red Silty clay (HS, LP, MJ). |
| 5-6 | | 12" | 1.7 | - | " " | 12'-15' Brown Silty clay w/ trace gravel (LP, LS, Sat). |
| 6-7 | | 12" | 1.2 | 7' | " " | |
| 7-8 | | 12" | 2.1 | - | " " | |
| 8-9 | | 12" | 1.9 | - | " " | |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 12" | 0.8 | - | " " | |
| 11-12 | | 12" | 1.3 | 12' | " " | |
| 12-13 | | 12" | 1.2 | - | " " | |
| 13-14 | | 12" | 1.4 | - | " " | |
| 14-15 | | 12" | 1.1 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | YES | MW-1 |

NOTES:- GW @ 12'
- Fill material to 1'
- Tons of water in the well.

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300 Pearl Street, Suite 130
Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-2

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1005 to 1100
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.3-1 | | 9.6" | 1.3 | 0.8' | No Staining or Odors | 0 -0.3' Asphalt Surface |
| 1-2 | | 9.6" | 0.9 | 1' | " " | 0.3'-1' Brown Silty clay |
| 2-3 | | 9.6" | 1.4 | - | " " | w/ trace gravel & rock |
| 3-4 | | 9.6" | 1.4 | - | " " | 1'-5' Brownish Red Silty clay |
| 4-5 | | 9.6" | 1.0 | 5' | " " | w/ trace gravel (MP, MS, wet |
| 5-6 | | 12" | 1.7 | - | " " | 5'- 9' Brownish Red Silty clay |
| 6-7 | | 12" | 2.1 | - | " " | (MP, MS, Sat). |
| 7-8 | | 12" | 2.2 | - | " " | 9'-15' Brownish Red Clay |
| 8-9 | | 12" | 1.7 | 9' | " " | (LP, HS, M). |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 10.8" | 1.8 | - | " " | |
| 11-12 | | 10.8" | 0.9 | - | " " | |
| 12-13 | | 10.8" | 1.3 | - | " " | |
| 13-14 | | 10.8" | 0.8 | - | " " | |
| 14-15 | | 10.8" | 1.8 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | NO | — |

NOTES: GW @ 5'
- Fill material to 1'

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-3

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1100 to 1200
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | - | - | - | - | 0-0.3' Asphalt surface<br>0.3'-0.6' Asphalt Subbase material [Angular Gravel]<br>0.6'-15' Brownish Red Silty Clay (LP, HS, M). |
| 1-2 | | - | - | - | - | |
| 2-3 | | - | - | - | - | |
| 3-4 | | - | - | - | - | |
| 4-5 | | - | - | - | - | |
| 5-6 | | 12" | 1.5 | - | No Staining or Odors | |
| 6-7 | | 12" | 1.7 | - | " " | |
| 7-8 | | 12" | 1.6 | - | " " | |
| 8-9 | | 12" | 1.6 | - | " " | |
| 9-10 | | 12" | 2.1 | - | " " | |
| 10-11 | | 12" | 2.0 | - | " " | |
| 11-12 | | 12" | 1.4 | - | " " | |
| 12-13 | | 12" | 1.4 | - | " " | |
| 13-14 | | 12" | 1.4 | - | " " | |
| 14+5 | | 12" | 1.1 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 12' | yes | MW-2 |

NOTES: No fill encountered
- GW not
- 0'-5' = No recovery

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-4

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1215 to 1380
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 6" | 0.8 | 0.3' | No staining or odors | 0-0.3' Asphalt Surface and subbase material (Angular gravel) |
| 1-2 | | 6" | 3.0 | - | " " | 0.3'-5' Brownish Red Silty clay (MP, MS, M). |
| 2-3 | | 6" | 2.6 | - | " " | |
| 3-4 | | 6" | 2.4 | - | " " | |
| 4-5 | | 6" | 2.8 | 5' | " " | 5'-15' Brownish Red Silty clay (MP, MS, Sat). |
| 5-6 | | 12" | 3.3 | - | " " | |
| 6-7 | | 12" | 3.1 | - | " " | |
| 7-8 | | 12" | 1.6 | - | " " | |
| 8-9 | | 12" | 2.4 | - | " " | |
| 9-10 | | 12" | 2.0 | - | " " | |
| 10-11 | | 12" | 3.0 | - | " " | |
| 11-12 | | 12" | 2.5 | - | " " | |
| 12-13 | | 12" | 2.2 | - | " " | |
| 13-14 | | 12" | 2.6 | - | " " | |
| 14-15 | | 12" | 2.5 | - | " " | |
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**GROUNDWATER ENCOUNTERED**

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 14.6 | Yes | MW-3 |

NOTES: -No fill material
-A lot of water in boring

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-5

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1480 to 1800
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 9.6" | 1.5 | 0.6' | NO Staining or odors | 0-0.6' Asphalt & Subbase material (Angular gravel). 0.6'-15' Brown Silty Clay (HS, LP, M). |
| 1-2 | | 9.6" | 1.8 | - | " " | |
| 2-3 | | 9.6" | 2.8 | - | " " | |
| 3-4 | | 9.6" | 3.3 | - | " " | |
| 4-5 | | 9.6" | 1.7 | - | " " | |
| 5-6 | | 12" | 3.2 | - | " " | |
| 6-7 | | 12" | 2.6 | - | " " | |
| 7-8 | | 12" | 2.1 | - | " " | |
| 8-9 | | 12" | 2.0 | - | " " | |
| 9-10 | | 12" | 2.6 | - | " " | |
| 10-11 | | 12" | 2.9 | - | " " | |
| 11-12 | | 12" | 2.7 | - | " " | |
| 12-13 | | 12" | 2.2 | - | " " | |
| 13-14 | | 12" | 1.6 | - | " " | |
| 14-15 | | 12" | 2.6 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | NO | — |

NOTES: - NO fill material
- NO GW encountered

LABELLA Associates | Engineering Architecture Environmental Planning

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-6

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~1500~~ to 1545
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10" | 3.5 | 0.3' | No Staining or Odors | 0-0.3' Asphalt & Subbase material (angular gravel). |
| 1-2 | | 10" | 1.8 | - | " " | 0.3'-15' Brownish Red clay w/ trace gravel (HS, LP, M). |
| 2-3 | | 10" | 1.5 | - | " " | |
| 3-4 | | 10" | 1.8 | - | " " | |
| 4-5 | | 10" | 1.8 | - | " " | |
| 5-6 | | 12" | 3.1 | - | " " | |
| 6-7 | | 12" | 3.0 | - | " " | |
| 7-8 | | 12" | 3.4 | - | " " | |
| 8-9 | | 12" | 3.8 | - | " " | |
| 9-10 | | 12" | 4.5 | - | " " | |
| 10-11 | | 12" | 5.0 | - | " " | |
| 11-12 | | 12" | 3.6 | - | " " | |
| 12-13 | | 12" | 2.6 | - | " " | |
| 13-14 | | 12" | 2.8 | - | " " | |
| 14-15 | | 12" | 3.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | Yes | MW-4 |

NOTES: - Fill not encountered
- GW not encountered

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-7

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1700 to 1730
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | - | 1' | No Staining or odors | 0-1' Asphalt & Subbase material (Angular gravel). |
| 1-2 | | 12" | 2.6 | - | " " | |
| 2-3 | | 12" | 2.2 | - | " " | 1'-10' Brownish Red Silty Clay (MP, MS, M). |
| 3-4 | | 12" | 2.7 | - | " " | |
| 4-5 | | 12" | 2.8 | - | " " | |
| 5-6 | | 12" | 2.5 | - | " " | 10'-15' Brown Clay (MS, MP, M) |
| 6-7 | | 12" | 2.5 | - | " " | |
| 7-8 | | 12" | 1.5 | - | " " | |
| 8-9 | | 12" | 1.9 | - | " " | |
| 9-10 | | 12" | 2.1 | 10' | " " | |
| 10-11 | | 12" | 2.3 | - | " " | |
| 11-12 | | 12" | 2.4 | - | " " | |
| 12-13 | | 12" | 1.8 | - | " " | |
| 13-14 | | 12" | 1.9 | - | " " | |
| 14-15 | | 12" | 1.6 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-5 |

NOTES: Very tight clays
- NO GW encountered
- NO fall encountered

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-8
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1730 to 1815
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 2.1 | 0.3' | No Staining or odors | 0-0.3' Asphalt and Subbase material (Angular gravel) |
| 1-2 | | 12" | 2.9 | - | " " | |
| 2-3 | | 12" | 3.1 | 3' | " " | 0.3'- 3' Brownish Black Silty clay (MP, MS, M). |
| 3-4 | | 12" | 2.6 | - | " " | |
| 4-5 | | 12" | 2.4 | - | " " | |
| 5-6 | | 12" | 2.1 | - | " " | 3'-15' Brownish Red Clay w/ trace gravel (HS, LP, M). |
| 6-7 | | 12" | 2.2 | - | " " | |
| 7-8 | | 12" | 1.9 | - | " " | |
| 8-9 | | 12" | 2.4 | - | " " | |
| 9-10 | | 12" | 2.1 | - | " " | |
| 10-11 | | 12" | 1.4 | - | " " | |
| 11-12 | | 12" | 1.8 | - | " " | |
| 12-13 | | 12" | 2.1 | - | " " | |
| 13-14 | | 12" | 2.0 | - | " " | |
| 14-15 | | 12" | 1.9 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-6 |

NOTES: - Very tight clays
- Refusal not encountered.

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-9

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~745~~ to 800
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10.8" | 3.7 | 0.6' | NO Staining or odors | 0-0.6' Concrete surface<br>0.6'-1' Brown Silty clay w/ trace gravel<br>1-5' Brown Silty clay (MP, MS, M)<br>5'-15' Brownish Red Silty clay w/ trace gravel (MP, MS, M). |
| 1-2 | | 10.8" | 3.4 | 1' | " " | |
| 2-3 | | 10.8" | 6.4 | - | " " | |
| 3-4 | | 10.8" | 5.4 | - | " " | |
| 4-5 | | 10.8" | 3.2 | 5' | " " | |
| 5-6 | | 12" | 3.8 | - | " " | |
| 6-7 | | 12" | 3.2 | - | " " | |
| 7-8 | | 12" | 3.8 | - | " " | |
| 8-9 | | 12" | 3.3 | - | " " | |
| 9-10 | | 12" | 3.2 | - | " " | |
| 10-11 | | 12" | 5.6 | - | " " | |
| 11-12 | | 12" | 5.1 | - | " " | |
| 12-13 | | 12" | 3.1 | - | " " | |
| 13-14 | | 12" | 3.9 | - | " " | |
| 14-15 | | 12" | 3.9 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: 18th boring inside Site Building

LABELLA Associates | Engineering Architecture Environmental Planning

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-10

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 800 to 820
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 1.8 | 0.6' | No staining or odors | 0-0.6' Concrete Surface |
| 1-2 | | 7.2" | 1.9 | 1' | " " | 0.6'-1' Brown Silty Clay w/ trace gravel |
| 2-3 | | 7.2" | 2.5 | - | " " | 1'-15' Brownish Red Silty Clay w/ trace gravel (MP, MS, M). |
| 3-4 | | 7.2" | 2.0 | - | " " | |
| 4-5 | | 7.2" | 1.6 | - | " " | |
| 5-6 | | 12" | 2.6 | - | " " | |
| 6-7 | | 12" | 2.7 | - | " " | |
| 7-8 | | 12" | 2.0 | - | " " | |
| 8-9 | | 12" | 2.5 | - | " " | |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 12" | 2.3 | - | " " | |
| 11-12 | | 12" | 2.1 | - | " " | |
| 12-13 | | 12" | 2.5 | - | " " | |
| 13-14 | | 12" | 2.5 | - | " " | |
| 14-15 | | 12" | 2.3 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: 10'-15' - there was some water in the Silts & Sand was under pressure. -NO fill encountered

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-11

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 830 to 845
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 2.4 | 0.6' | No Staining or Odors | 0-0.6' Concrete Surface<br>0.6'-2' Brown Silty Clay w/ trace gravel, brick, crushed concrete.<br>2'-9' Brownish Red Silty Clay (LPS, LP, M)<br>Refusal @ 9.1 |
| 1-2 | | 12" | 3.8 | 2' | " " | |
| 2-3 | | 12" | 2.2 | - | " " | |
| 3-4 | | 12" | 1.6 | - | " " | |
| 4-5 | | 12" | 1.4 | - | " " | |
| 5-6 | | 12" | 2.1 | - | " " | |
| 6-7 | | 12" | 1.8 | - | " " | |
| 7-8 | | 12" | 2.4 | - | " " | |
| 8-9 | | 12" | 2.3 | 9' | " " | |
| 9-10 | | 12" | 2.2 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 9.1 | NO | - |

NOTES: * Brick / concrete chunch at bottom of core.
- Fill to 2'

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-12
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
TIME: ~~8~~ 45 to 900
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 9.6" | 4.8 | 0.6' | No Staining or Odors | 0-0.6' Concrete Surface |
| 1-2 | | 9.6" | 3.3 | 2' | " " | 0.6-2' Brown Silty Clay w/ trace gravel, brick, crushed concrete. |
| 2-3 | | 9.6" | 2.2 | - | " " | 2'-15' Brownish Red Silty Clay w/ trace gravel (MP, MS, M). |
| 3-4 | | 9.6" | 2.0 | - | " " | |
| 4-5 | | 9.6" | 1.2 | - | " " | |
| 5-6 | | 12" | 1.3 | - | " " | |
| 6-7 | | 12" | 1.8 | - | " " | |
| 7-8 | | 12" | 2.3 | - | " " | |
| 8-9 | | 12" | 2.5 | - | " " | |
| 9-10 | | 12" | 2.5 | - | " " | |
| 10-11 | | 12" | 1.9 | - | " " | |
| 11-12 | | 12" | 1.8 | - | " " | |
| 12-13 | | 12" | 2.3 | - | " " | |
| 13-14 | | 12" | 1.9 | - | " " | |
| 14-15 | | 12" | 1.8 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: Fill to 2'
very tight clays

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-13
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
TIME: 1055 to 1100
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 1.2 | 0.3' | NO staining or odors | 0-0.3' Grass surface & topsoil |
| 1-2 | | 7.2" | 1.3 | - | " " | 0.3'-4' Brownish Black silty clay (LP, LS, wet). |
| 2-3 | | 7.2" | 1.8 | - | " " | |
| 3-4 | | 7.2" | 1.4 | 4' | " " | 4'-5' Brown silty clay w/ trace gravel |
| 4-5 | | 7.2" | 1.6 | 5' | " " | |
| 5-6 | | 1" | - | - | " " | 5.1 - Hit refusal. Rock in bottom of core. |

| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| 6/9/17 | 5.1 | NO | - |

NOTES: - will move north 4-5' and try again.

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-18A

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski START DATE: END DATE:

TIME: 1100 to 1145
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 0.0 | 0.3' | No Stain or odors | 0-0.3'- Grass and topsoil |
| 1-2 | | 7.2" | 0.0 | - | " " | 0.3'-4' Brownish Black Silty |
| 2-3 | | 7.2" | 0.0 | - | " " | Clay (MP, MS, Wet). |
| 3-4 | | 7.2" | 0.0 | 4' | " " | 4'-6' Brownish Red Silty |
| 4-5 | | 7.2" | 0.0 | - | " " | Clay (MP, MS, Wet). |
| 5-6 | | 12" | 0.0 | 6' | " " | 6'-15' Brownish Red Silty |
| 6-7 | | 12" | 0.0 | - | " " | Clay (LP, HS, M). |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-7 |

NOTES:
- Very tight clays - Macro core was overpacking.

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-14
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/9/17 END DATE: 6/9/17
TIME: 1215 to 1245
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10.0" | 0.0 | 0.6' | No staining or odors | 0-0.6' Grass surface & topsoil. |
| 1-2 | | 10" | 0.0 | - | " " | |
| 2-3 | | 10" | 0.0 | - | " " | 0.6'-9' Brownish Red Silty Clay w/ trace gravel. (HS, LP, M) |
| 3-4 | | 10" | 0.0 | - | " " | |
| 4-5 | | 10" | 0.0 | - | " " | |
| 5-6 | | 10.2" | 0.0 | - | " " | |
| 6-7 | | 10.2" | 0.0 | - | " " | 9'-10.5' Brownish Red Silty Clay w/ trace gravel (MP, MS, wet). |
| 7-8 | | 10.2" | 0.0 | - | " " | |
| 8-9 | | 10.2" | 0.0 | 9' | " " | |
| 9-10 | | 10.2" | 0.0 | 10' | " " | 10.5'-15' Brownish Red Silty Clay w/ trace gravel (LP, HS, M) |
| 10-11 | | 12" | 0.0 | 10.5' | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-8 |

NOTES: - Fill not encountered.
- GW encountered @ 10'

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-15

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1300 to 1330
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 11.2" | 0.0 | 0.3' | No Staining or Odors | 0-0.3' Grass and topsoil<br>0.3'-15' Brownish Red silty clay w/ trace gravel. (MP, MS, M) |
| 1-2 | | 11.2" | 0.0 | - | " " | |
| 2-3 | | 11.2" | 0.0 | - | " " | |
| 3-4 | | 11.2" | 0.0 | - | " " | |
| 4-5 | | 11.2" | 0.0 | - | " " | |
| 5-6 | | 12" | 0.0 | - | " " | |
| 6-7 | | 12" | 0.0 | - | " " | |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | — |

NOTES: -very tight clays

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-16

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~1245~~ to
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 0.0 | 0.6' | No staining or odors | 0-0.6' Grass & topsoil<br>0.6'-3' Brownish Red Silty Clay (LP, MS, wet)<br>3'-15' Brownish Red Silty Clay w/ trace gravel (HS, LP, M). |
| 1-2 | | 12" | 0.0 | - | " " | |
| 2-3 | | 12" | 0.0 | 3' | " " | |
| 3-4 | | 12" | 0.0 | - | " " | |
| 4-5 | | 12" | 0.0 | - | " " | |
| 5-6 | | 12" | 0.0 | - | " " | |
| 6-7 | | 12" | 0.0 | - | " " | |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | yes | MW-9 |

NOTES:

LABELLA Associates | Engineering Architecture Environmental Planning

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**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-17**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 8:35 to 9:40
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 6 | 158 | | No odors or staining | 0-0.6 concrete slab |
| 2-4 | | 6 | 27 | | No odors or staining | 0.6-2 brown clay silt (m,m) |
| 4-6 | | 24 | 59 | | No odors or staining | 2-4 gray clay silt (m, m) |
| 6-8 | | 24 | 20.2 | | No odors or staining | 4-6 brown gray clay silt (m,m) |
| 8-10 | | 22 | 40.3 | | No odors or staining | 6-8 red brown clay silt (m,m) |
| 10-12 | | 22 | 57.2 | | No odors or staining | 8-12 red brown clay (l, stiff, m) |
| 12-14 | | 24 | 8.9 | | Metallic odor No staining | 12-16 gray clay (m,stiff,m) |
| 14-16 | | 24 | 31.2 | | | |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Sample collected at 0.6-2 ft bgs and 14-16 ft bgs

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**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-18**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 9:45 to 10:35
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 10 | 4.4 | | No odors or staining | 0-0.6 concrete slab |
| 2-4 | | 10 | 4.4 | | No odors or staining | 0.6-1 white grey gravel fill |
| 4-6 | | 24 | 2.6 | | No odors or staining | 1-4 brown clay silt (m,m) |
| 6-8 | | 24 | 4.3 | | No odors or staining | 2-4 gray clay silt (m, m) |
| 8-10 | | 24 | 5.9 | | No odors or staining | 4-12 red brown clay (m, stiff, m) |
| 10-12 | | 24 | 8.2 | | No odors or staining | 12-16 Brown clay (m,stiff,m) |
| 12-14 | | 24 | 10 | | No odors or staining | |
| 14-16 | | 24 | 4.7 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample collected at 12-14 ft bgs

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300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-19**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 13:40 to 14:54
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 0.9 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 20 | 0.7 | | No odors or staining | 0.2-4 brown red clay silt (m,m) |
| 4-6 | | 24 | 1.4 | | No odors or staining | 4-8 brown red clay ( m, stiff, m) |
| 6-8 | | 24 | 1.2 | | No odors or staining | 8-16 brown clay (m, stiff, m) |
| 8-10 | | 24 | 1.1 | | No odors or staining | |
| 10-12 | | 24 | 0.4 | | No odors or staining | |
| 12-14 | | 24 | 0.9 | | No odors or staining | |
| 14-16 | | 24 | 1.8 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample collected at 14-16 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-20**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 15:05 to 15:50
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 24 | 0.3 | | No odors or staining | 0-0.2 grass<br>0.2-4 brown clay (m, stiff, m)<br><br>4-6 brownish red clay (m, stiff, m)<br><br>6-8 brown gray red clay (m, stiff, m)<br><br>8-10 brown red clay (m, stiff, m)<br><br>10-12 gray brown clay (m, stiff, m)<br><br>12-16 brown red clay (m, stiff, m) |
| 2-4 | | 24 | 0.5 | | No odors or staining | |
| 4-6 | | 24 | 0 | | No odors or staining | |
| 6-8 | | 24 | 0 | | No odors or staining | |
| 8-10 | | 24 | 1.6 | | No odors or staining | |
| 10-12 | | 24 | 1.0 | | No odors or staining | |
| 12-14 | | 24 | 0 | | No odors or staining | |
| 14-16 | | 24 | 0 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Sample collected at 8-10 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-21**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 16:00 to 17:15
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 24 | 1.8 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 24 | 1 | | No odors or staining | 0.2-0.8 brown black clay silt (m, m) |
| 4-6 | | 22 | 0.4 | | No odors or staining | 0.8-2 brown red clay silt (m, m) |
| 6-8 | | 22 | 0.2 | | No odors or staining | 2-4 brown gray clay (m, stiff, m) |
| 8-10 | | 24 | 0 | | No odors or staining | 4-6 brown orange clay (m, stiff, m) |
| 10-12 | | 24 | 0 | | No odors or staining | 6-7 gray clay (m, stiff, m) |
| 12-14 | | 24 | 0.9 | | No odors or staining | 7-8 brown red clay (m, stiff, m) |
| 14-16 | | 24 | 1.2 | | No odors or staining | 8-10 brown gray clay (m, stiff, m) |
| | | | | | | 10-12 brown red clay (m, stiff, m) |
| | | | | | | 12-14 gray clay (m, m, m) |
| | | | | | | 14-16 gray clay (m, wet, m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample collected at 14-16 ft bgs
Rained at 16:52

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-22**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 17:35 to 18:00
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 2.1 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 20 | 0.7 | | No odors or staining | 0.2-2 brown red clay silt (m, m) |
| 4-6 | | 24 | 2.1 | | No odors or staining | 2-4 brown gray clay (m, stiff, m) |
| 6-8 | | 24 | 1 | | No odors or staining | 4-6 red brown clay silt (m,m) |
| 8-10 | | 24 | 0.9 | | No odors or staining | 6-12 brown clay mixed with gravel (m, stiff, m) |
| 10-12 | | 24 | 0.5 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Refusal at 12 ft bgs

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**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-23**

Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 10:45 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 1.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 0.1 | | No odors or staining | 0.-6-2 brown clay mixed with gravel (m,m,m) |
| 4-6 | | 24 | 0.1 | | No odors or staining | 2-6 brown clay (l,st,m) |
| 6-8 | | 24 | 0.3 | | No odors or staining | 6-10 brown red clay (l,st,m) |
| 8-10 | | 16 | 0.3 | | No odors or staining | 10-11 brown clay (l,st,m) |
| 10-11 | | 16 | 0.1 | | No odors or staining | |
| | | | | | No odors or staining | |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Refusal @ 11 ft due to laminated clays
Sample collected at 0.6-2 ft

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300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-24**

Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 11:30 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 12 | 13.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 12 | 2.8 | | No odors or staining | 0.-6-2 brown clay mixed with gravel (m,m,m) |
| 4-6 | | 24 | 3.0 | | No odors or staining | 2-4 brown clay (l,st,m) |
| 6-8 | | 24 | 12.4 | | No odors or staining | 4-9.1 brown red clay (l,st,m) |
| 8-9.1 | | 12 | 2.2 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Refusal @ 9.1 ft due to laminated clays
Sample collected at 0.6-2 ft

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-25**
Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 12:00 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 942 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 20 | 3,674 | | Strong solvent odor, no staining | 0.-6-2 brown clay mixed with gravel (m,m,m)<br>2-4 gray clay silt (m,m) |
| 4-6 | | 24 | 524 | | Strong solvent odor, no staining | 4-4.5 gray clay (l,st,m)<br>4.5-7.9 brown red clay (l,st,m) |
| 6-7.9 | | 23 | 275 | | Strong solvent odor, no staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Refusal @ 7.9 ft due to laminated clays
Sample collected at 0.6-2 ft and 2-4 ft

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300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-26**
Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 12:55 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 46.1 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 6.2 | | No odors or staining | 0.-6-2 gray clay silt mixed with gravel (m,m,m) |
| 4-6 | | 20 | 15.4 | | No odors or staining | 2-4 gray clay (l,st,m) |
| 6-8 | | 20 | 10.2 | | No odors or staining | 4-8 red brown clay (l,st,m) |
| 8-8.7 | | 7 | 1.7 | | No odors or staining | 8-8.7 gray brown clay (l,st,m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Refusal @ 8.7 ft due to laminated clays
Sample collected at 0.6-2 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-27**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 13:45 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 4.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 4.6 | | No odors or staining | 0.-6-2 brown gray clay silt mixed with gravel (m,m) |
| 4-6 | | 24 | 15.1 | | No odors or staining | 2-4 brown clay (l,st,m) |
| 6-7.8 | | 24 | 4.2 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 4-6 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-28**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 14:10 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 6.2 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 4.6 | | No odors or staining | 0.-6-4 brown clay silt mixed with gravel (m,m) |
| 4-6 | | 23 | 1.7 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
| 6-7.8 | | 23 | 1.2 | | No odors or staining | |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 0.6-2 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-28**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 15:40 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 15 | 4.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 15 | 3.8 | | No odors or staining | 0.-6-1 brown clay silt mixed with gravel (m,m) |
| 4-6 | | 24 | 1.7 | | No odors or staining | 1-4 brown gray clay (l,st,m) |
| 6-7.8 | | 24 | 1.4 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 0.6-2 ft

LABELLA Associates, D.P.C.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-1

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny 78° F

## PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 14.68 Ft.
Static Water Level: 1.95 Ft. bgs
One Well Volume: 2.0 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 3.0 Gallons Purged DRY @ 3.0 gals.

Purge Time Start: 850
Purge Time End: 905

## WELL SAMPLING

Sample I.D.: MW-1
No. of Containers: 3
Sample Time: 915
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-1

*Recharge Behavior:* ☑ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

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Buffalo, New York 14202
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# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-2

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny 78°F

## PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 12.2 Ft.
Static Water Level: 11.68 Ft. bgs
One Well Volume: 0.0832 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 0.25 Gallons Purged

Purge Time Start: 930
Purge Time End: 940

## WELL SAMPLING

Sample I.D.: MW-2
No. of Containers: 8 2
Sample Time: 945
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-3
* Only got 2 of 3 VOC vials due to low water level & slow recharge

*Recharge Behavior:* ☐ Fast ☐ Moderate ☑ Slow ☐ Purged Dry

LABELLA Associates, D.P.C.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-3

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny, 78° F

## PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 14.75 Ft.
Static Water Level: 3.4 Ft. bgs
One Well Volume: 1.82 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 3.0 Gallons Purged DRY @ 3.0 gal.

Purge Time Start: 1015
Purge Time End: 10-25

## WELL SAMPLING

Sample I.D.: MW-3
No. of Containers: 3
Sample Time: 1030
Sample Preservation: HCl

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-1

*Recharge Behavior:* ☐ Fast ☑ Moderate ☐ Slow ☐ Purged Dry

LABELLA Associates, D.P.C.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-4

| | |
|---|---|
| Project Name: | 11075 Walden Avenue, Lancaster, New York Phase II Investigation |
| Location: | 11075 Walden Avenue, Lancaster, New York |
| Project No.: | 2171362 |
| Sampled By: | Jessica Dombrowski |
| Date: | 6/12/2017 |
| Weather: | Sunny 78° F |

## PURGE VOLUME CALCULATION

| | | | |
|---|---|---|---|
| Well Diameter: | 2" | Static Water Level: | 13.62 Ft. bgs |
| Depth of Well: | 14.65 Ft. | One Well Volume: | 0.17 Gallons |

## PURGE AND SAMPLING METHOD

☒ Bailer – Type: _____ ☐ Pump – Type: _____
Sampling Device: _____ Pump Rate: _____

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 0.85 Gallons Purged

Purge Time Start: 1045 Purge Time End: 1055

## WELL SAMPLING

Sample I.D.: MW-4 Sample Time: 1100
No. of Containers: 3 Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL ☐ DRO & GRO - 8015 ☐ PCBs
☐ PAHs - 8270 ☐ Total RCRA Metals ☐ Other: _____

## OBSERVATIONS

Notes: Well was installed in Boring # SB-6

*Recharge Behavior:* ☐ Fast ☐ Moderate ☑ Slow ☐ Purged Dry

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300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-5

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny, 78° F

## PURGE VOLUME CALCULATION

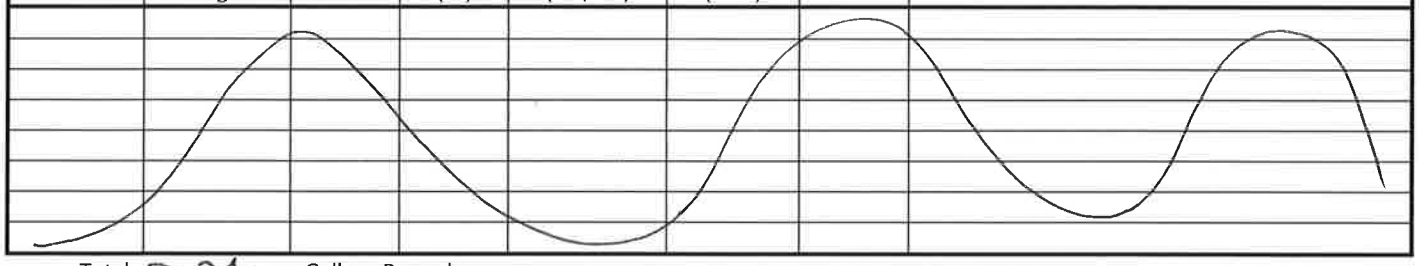
Well Diameter: 2"
Depth of Well: 14.65 Ft.
Static Water Level: 14.14 Ft. bgs
One Well Volume: 0.08 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |



Total 0.24 Gallons Purged

Purge Time Start: 1110
Purge Time End: 1120

## WELL SAMPLING

Sample I.D.: MW-5
No. of Containers: 2
Sample Time: 1125
Sample Preservation: HCl

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-7
* only got 1 full vial & 1 mostly full vial.

*Recharge Behavior:* ☐ Fast ☐ Moderate ☐ Slow ☑ Purged Dry

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# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-6

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny 78° F

## PURGE VOLUME CALCULATION

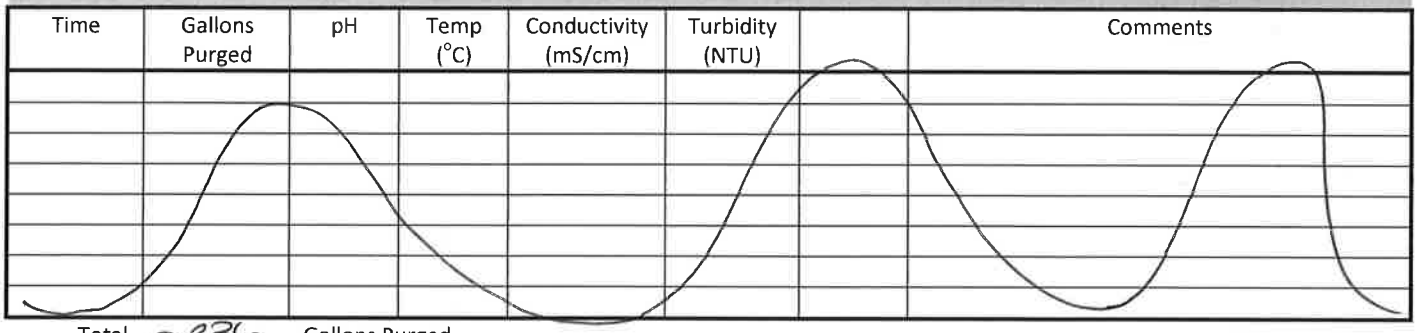
Well Diameter: 2"
Depth of Well: 14.35 Ft.
Static Water Level: 13.65 Ft. bgs
One Well Volume: 0.112 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |



Total 0.336 Gallons Purged

Purge Time Start: 1140
Purge Time End: 1155

## WELL SAMPLING

Sample I.D.: MW-6
No. of Containers: 3
Sample Time: 1200
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-8

*Recharge Behavior:* ☐ Fast ☐ Moderate ☑ Slow ☐ Purged Dry

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# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-7

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/2/2017
Weather: Sunny, 78° F

## PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 14.6 Ft.
Static Water Level: 13.75 Ft. bgs
One Well Volume: 0.18 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 0.54 Gallons Purged

Purge Time Start: 1220
Purge Time End: 1230

## WELL SAMPLING

Sample I.D.: MW-7
No. of Containers: 3
Sample Time: 1240
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # MW-13A

*Recharge Behavior:* ☐ Fast ☐ Moderate ☒ Slow ☐ Purged Dry

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# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-8

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny, 78° F

## PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 14.6 Ft.
Static Water Level: 14.09 Ft. bgs
One Well Volume: 0.085 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total 0.25 Gallons Purged

Purge Time Start: 1245
Purge Time End: 1255

## WELL SAMPLING

Sample I.D.: MW-8
No. of Containers: 3
Sample Time: 1300
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-14

*Recharge Behavior:* ☐ Fast ☐ Moderate ☒ Slow ☐ Purged Dry

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# GROUNDWATER COLLECTION AND SAMPLE LOG

**WELL I.D.:** MW-9

Project Name: 11075 Walden Avenue, Lancaster, New York Phase II Investigation
Location: 11075 Walden Avenue, Lancaster, New York
Project No.: 2171362
Sampled By: Jessica Dombrowski
Date: 6/12/2017
Weather: Sunny, 78° F

## PURGE VOLUME CALCULATION

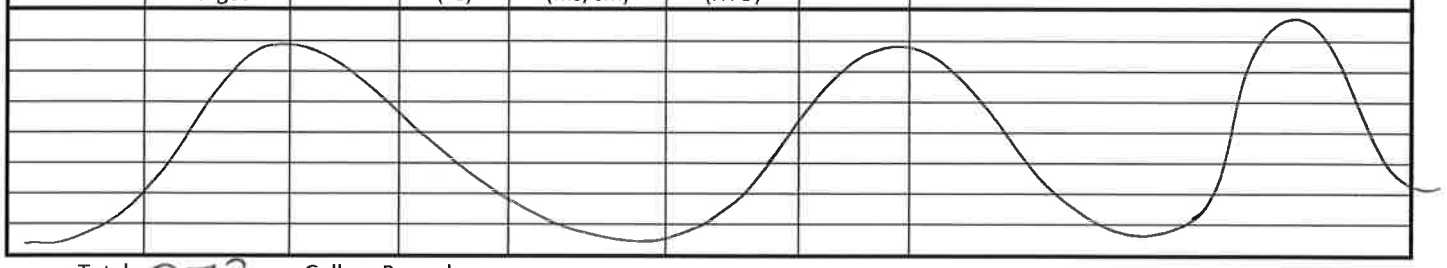
Well Diameter: 2"
Depth of Well: 14.65 Ft.
Static Water Level: 13.15 Ft. bgs
One Well Volume: 0.24 Gallons

## PURGE AND SAMPLING METHOD

☒ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

## FIELD PARAMETER MEASUREMENT

| Time | Gallons Purged | pH | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) | | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |



Total 0.72 Gallons Purged

Purge Time Start: 1335
Purge Time End: 1400

## WELL SAMPLING

Sample I.D.: MW-9
No. of Containers: 3
Sample Time: 14:05
Sample Preservation: HCL

*Sampled For:*
☒ VOCs - 8260 TCL
☐ PAHs - 8270
☐ DRO & GRO - 8015
☐ Total RCRA Metals
☐ PCBs
☐ Other:

## OBSERVATIONS

Notes: Well was installed in Boring # SB-16

*Recharge Behavior:* ☐ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

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Well ID: **MW-1**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

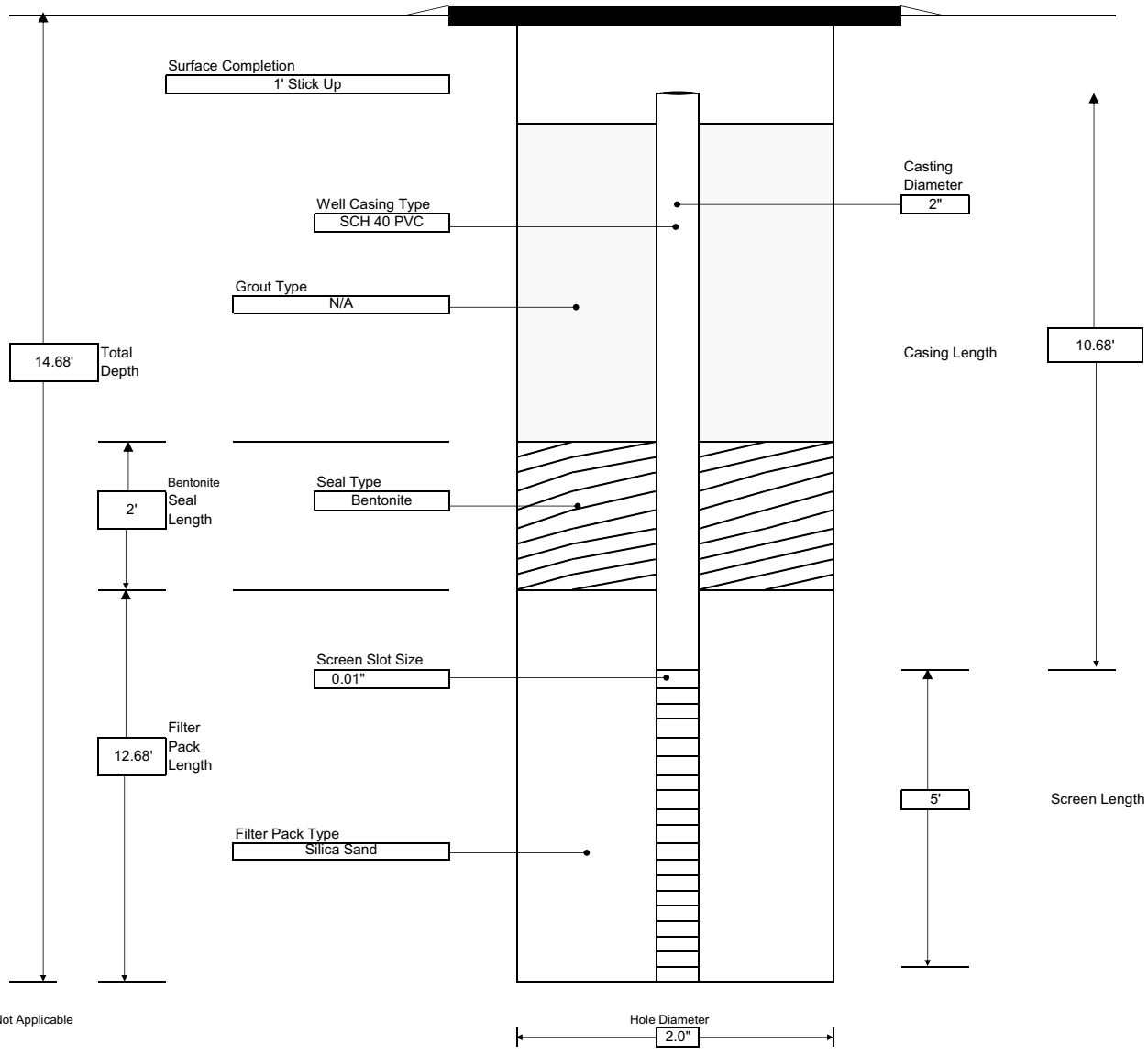
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-1
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/12/2017 END DATE: 6/12/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 850 | 1.95 | 14.68 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-2**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

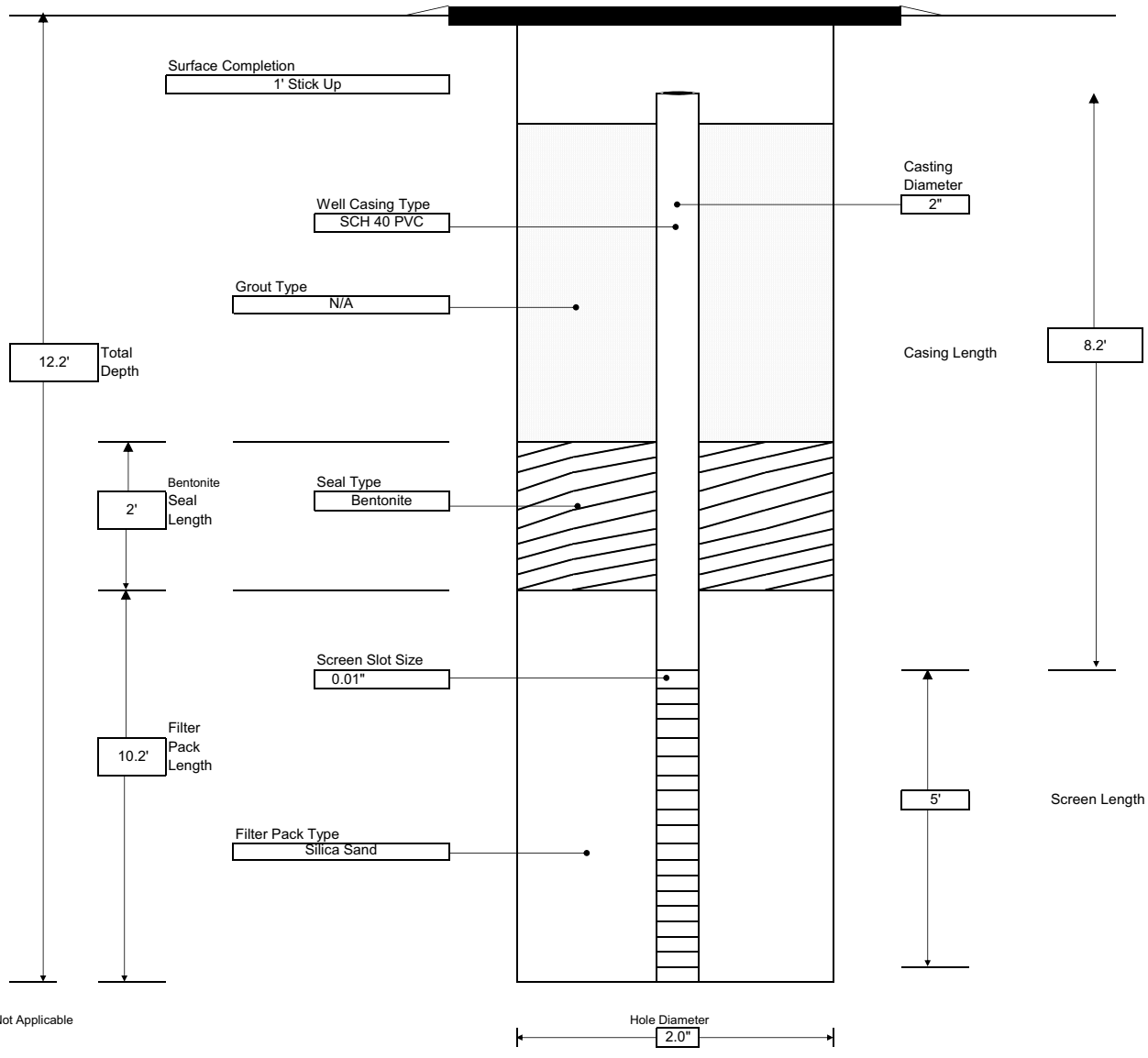
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-3
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/8/2017 END DATE:6/8/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 930 | 11.68 | 12.2 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Alden, New York 14004

Well ID: **MW-3**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

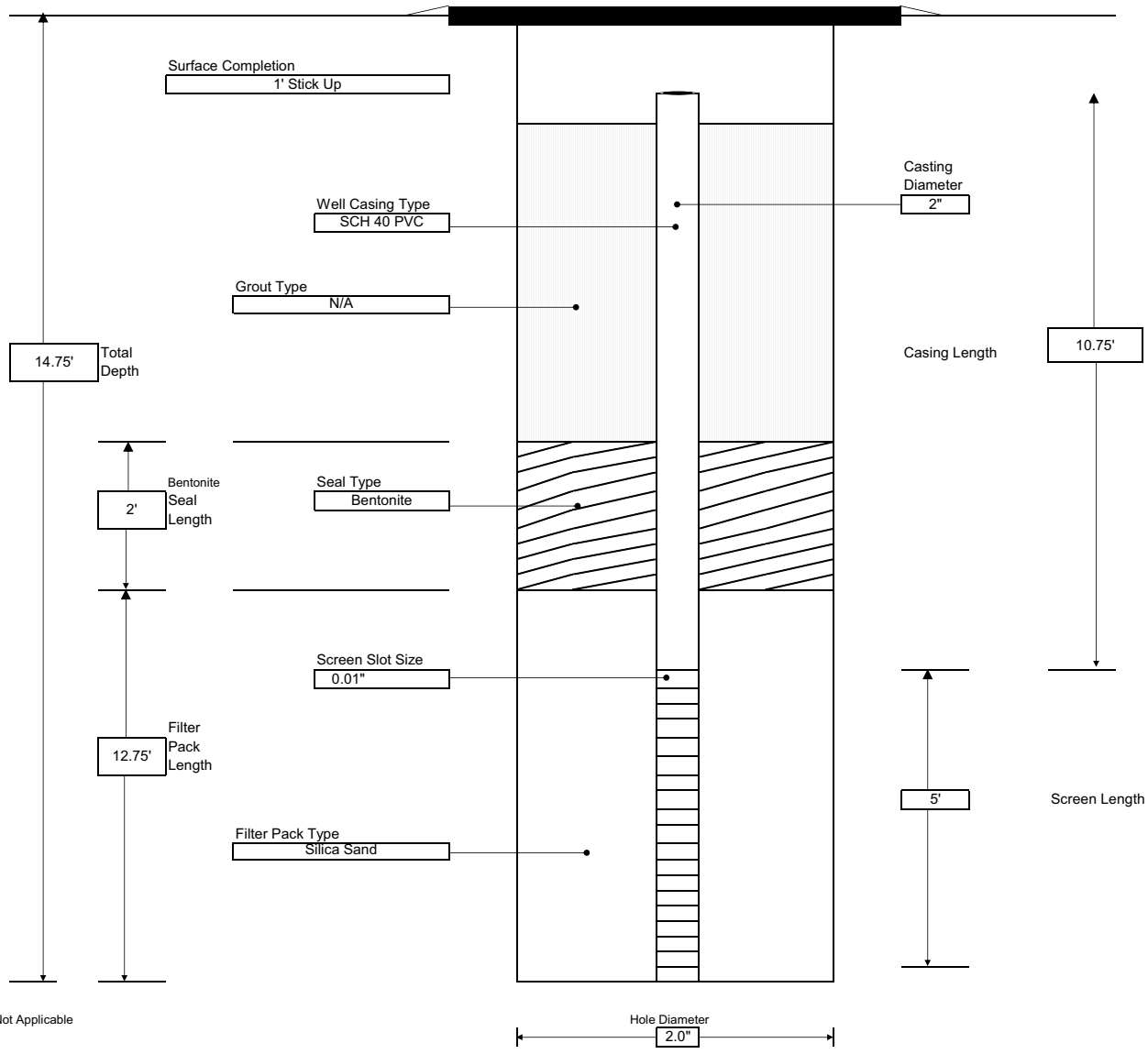
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-4
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/8/2017 END DATE:6/8/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1015 | 3.4 | 14.75 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-4**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

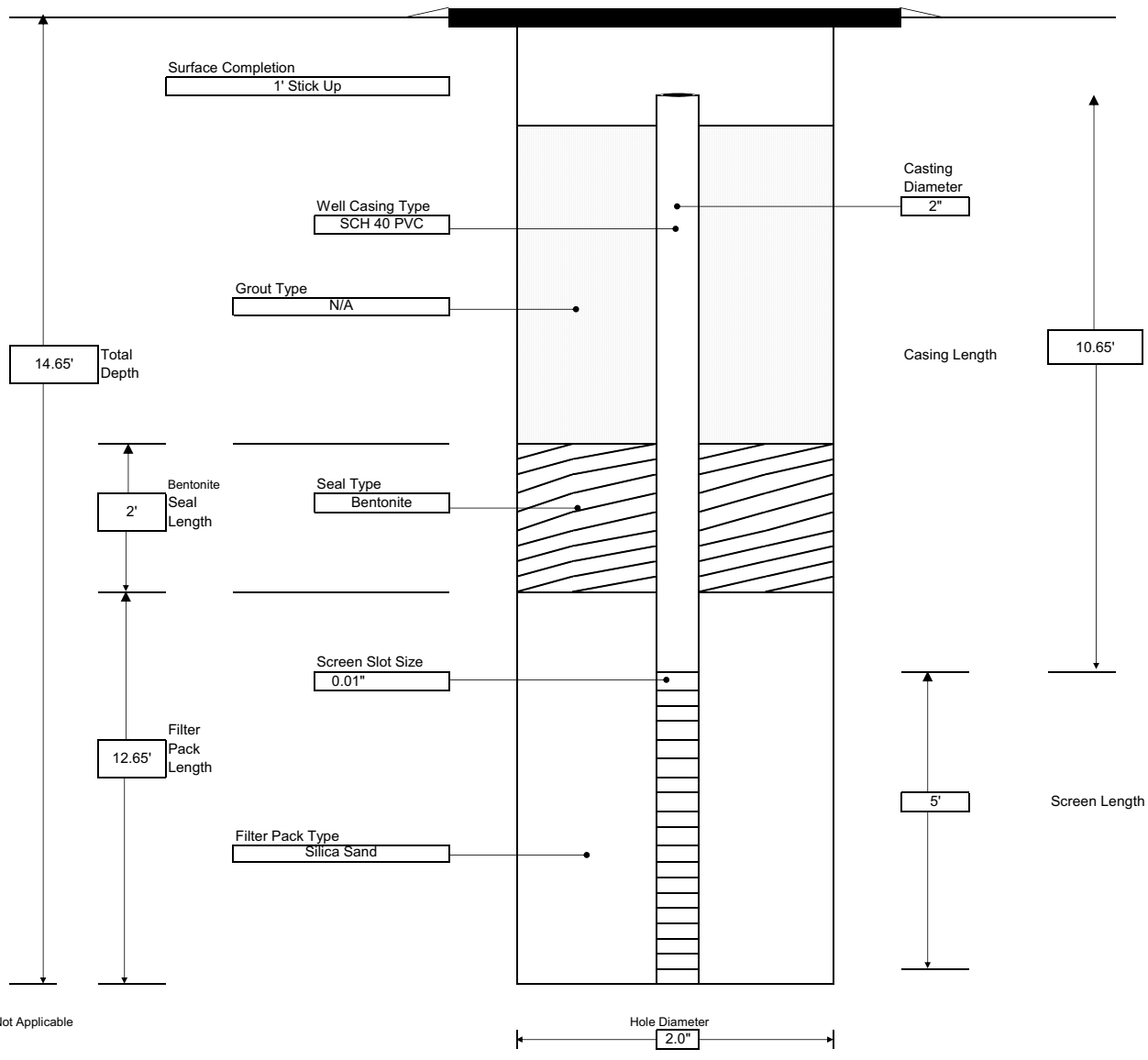
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-6
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/8/2017 END DATE:6/8/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1045 | 13.62 | 14.65 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-5**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

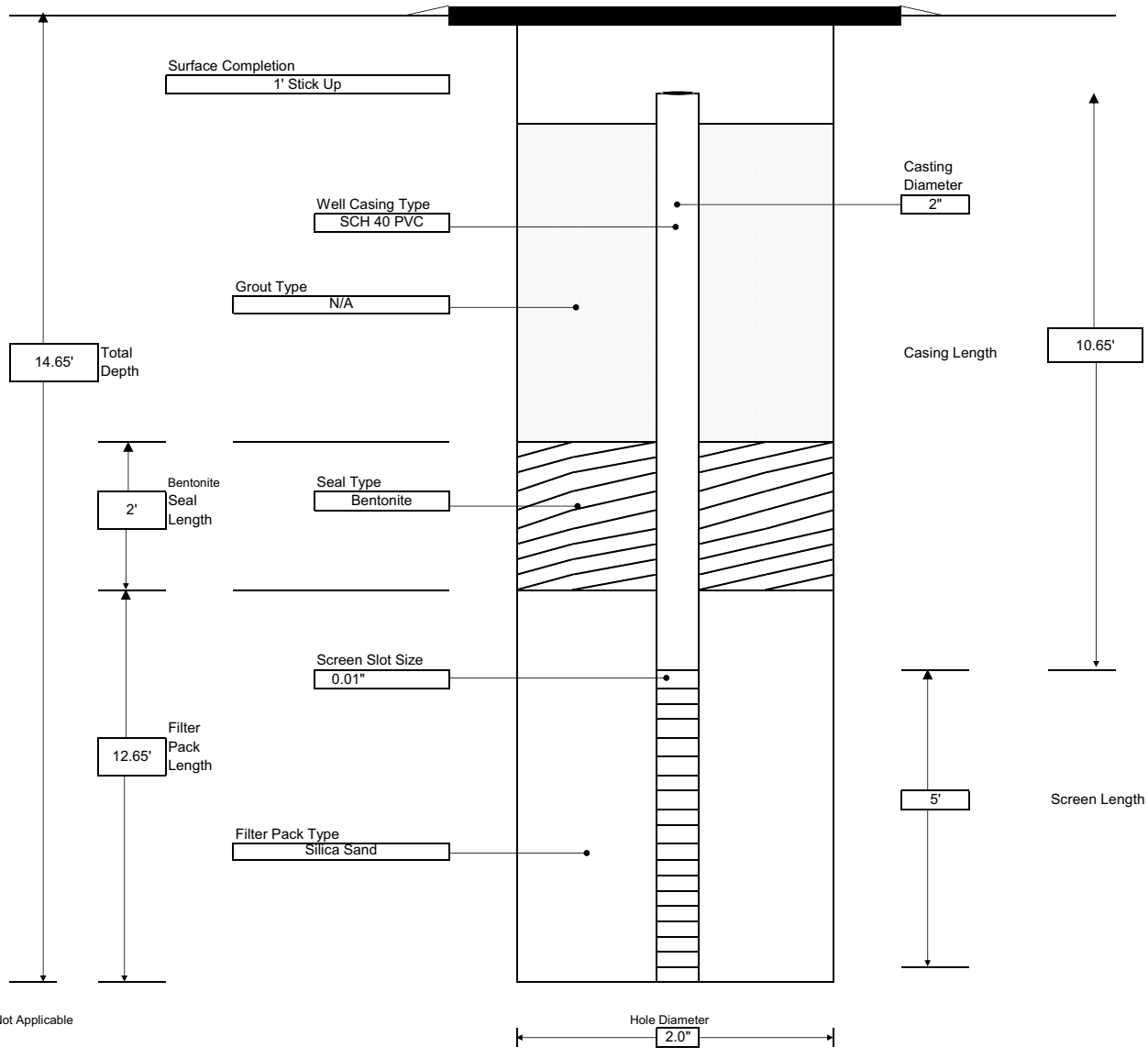
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-7
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/9/2017 END DATE:6/9/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1110 | 14.14 | 14.65 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-6**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

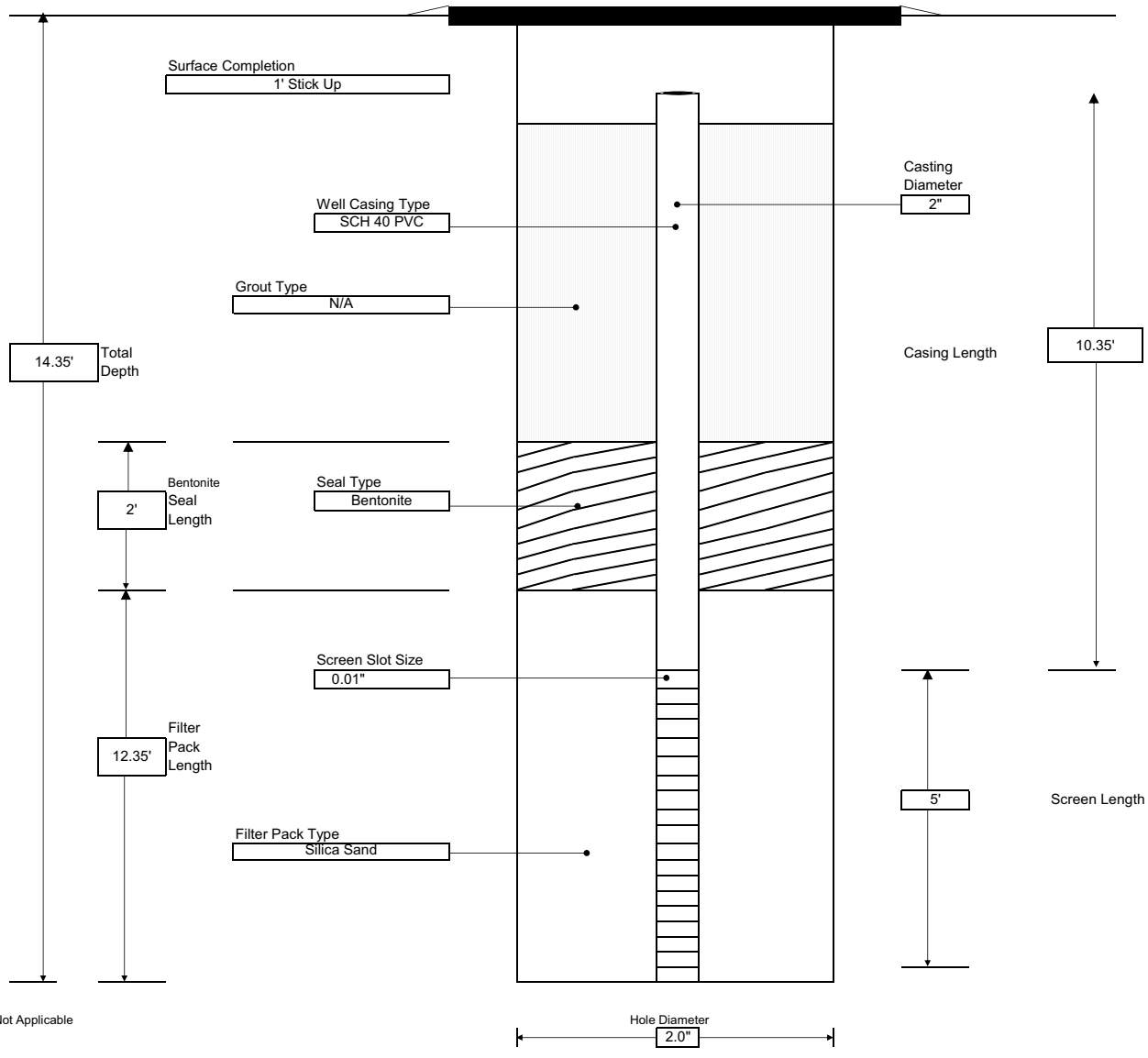
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-8
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/9/2017 END DATE:6/9/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1110 | 14.14 | 14.65 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-7**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

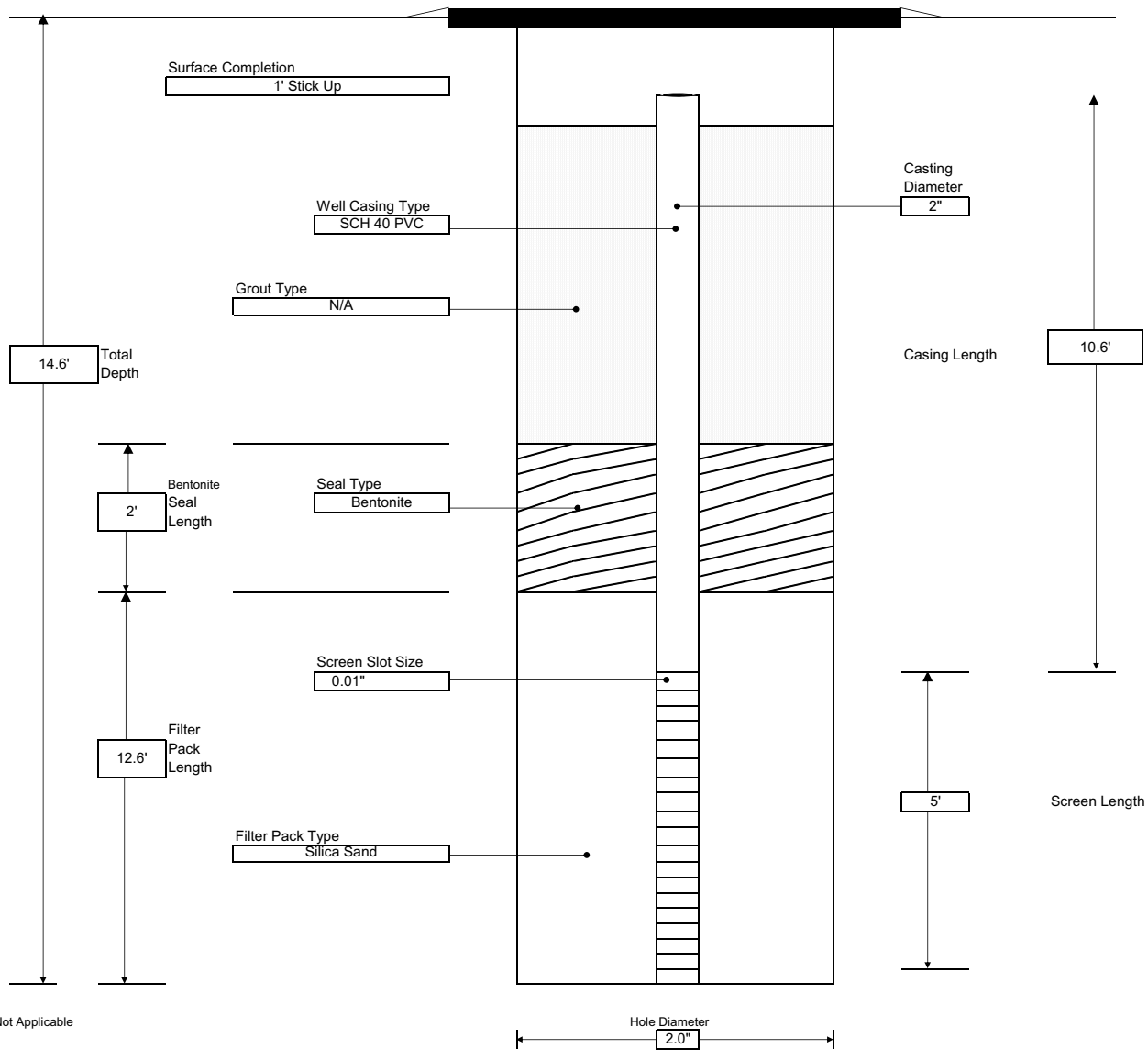
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-13A
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/9/2017 END DATE:6/9/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1220 | 13.45 | 14.6 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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Well ID: **MW-8**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

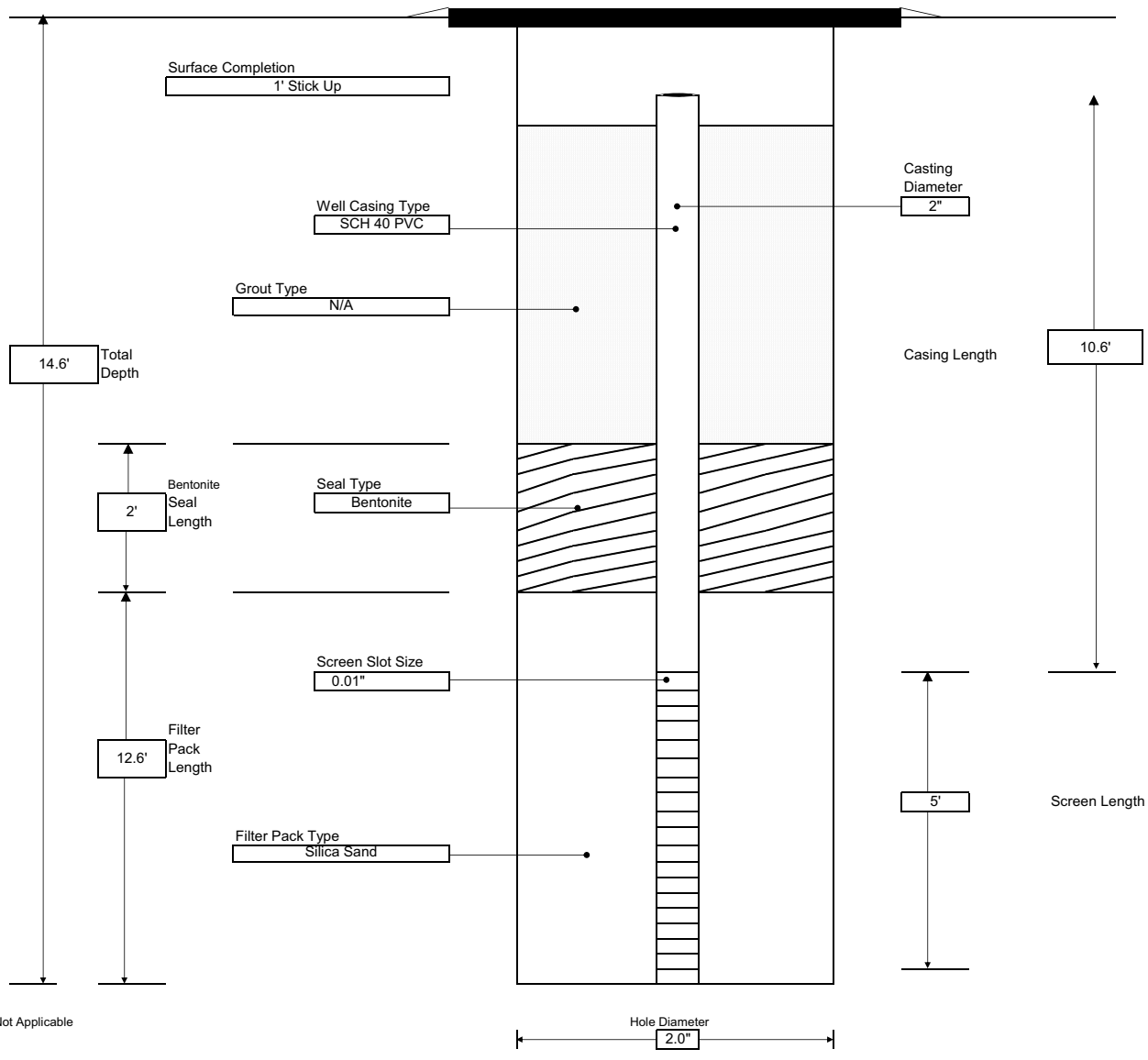
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-14
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/9/2017 END DATE:6/9/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1245 | 14.07 | 14.6 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

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Phase II Environmental Site Assessment
11075 Walden Avenue
Alden, New York 14004

Well ID: **MW-9**
SHEET 1 OF 1
JOB # 2171362
CHKD. BY:

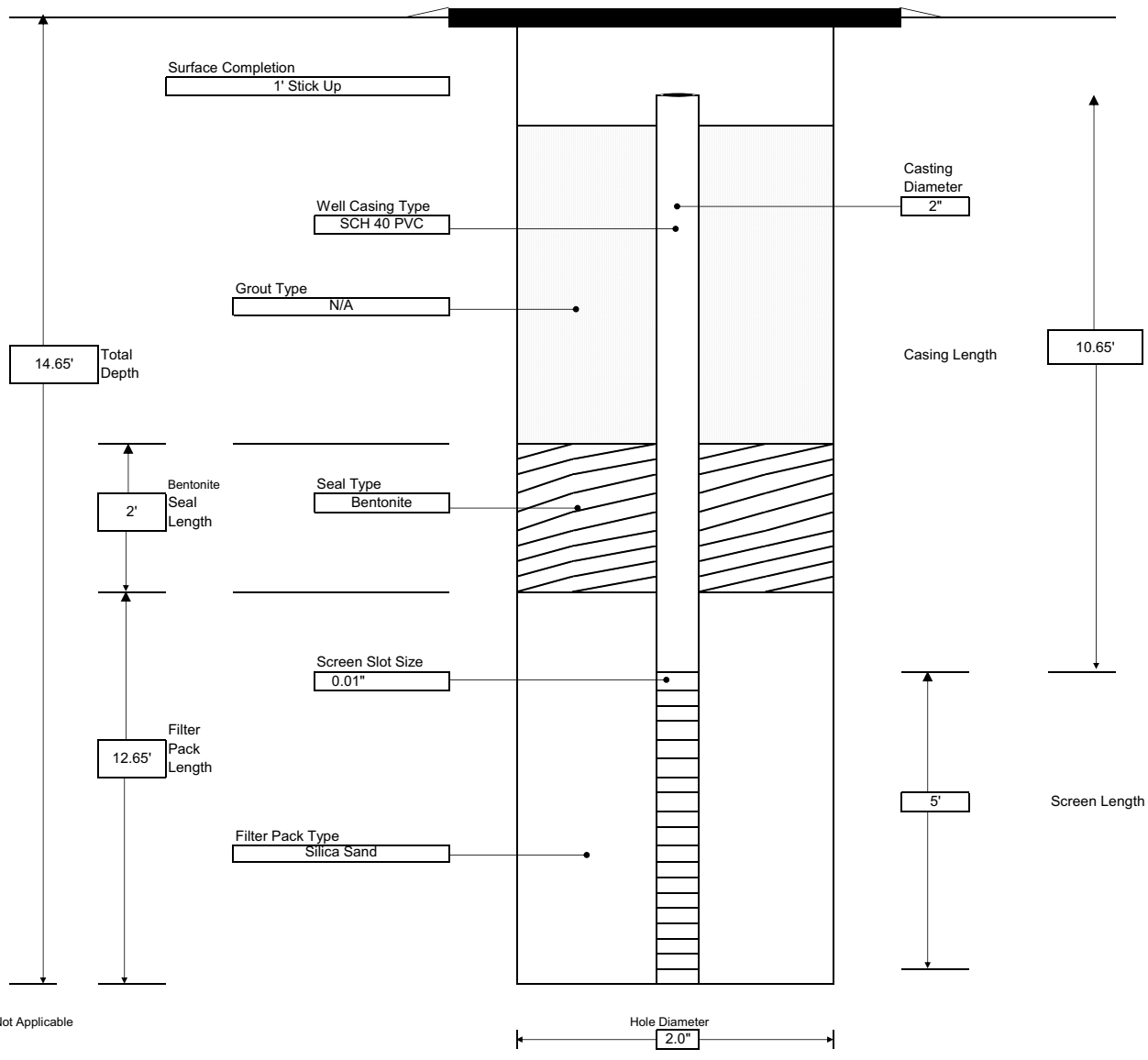
CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-16
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/9/2017 END DATE:6/9/2017

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE: 2 inch Direct Push
OVERBURDEN SAMPLING METHOD:5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA

| DATE | TIME | WATER | CASING | REMARKS |
|---|---|---|---|---|
| 6/12/2017 | 1335 | 13.15 | 14.65 | |
| | | | | |
| | | | | |




NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

# APPENDIX 2

**New York State Department of Health**
**Indoor Air Quality Questionnaire and**
**Building Inventory Form**

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Shannon Dalton Date/Time Prepared 8/3/9:00

Preparer's Affiliation LaBella Associates Phone No. 716-710-3043

Purpose of Investigation Vapor Intrusion assement for 11075 Walden Ave

**1. OCCUPANT:**

**Interviewed:** Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

**2. OWNER OR LANDLORD:** (Check if same as occupant ___ )

**Interviewed:** Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response) currently vacant

| | | |
|---|---|---|
| Residential | School | (Commercial)/Multi-use |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response) N/A

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other:_____ |

**If multiple units, how many?** N/A

**If the property is commercial, type?**

Business Type(s) vacant old Doritex Building

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

**Other characteristics:**

Number of floors 2 Building age unknown

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

## 4. AIRFLOW

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

doorways, bay doors, windows

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other Small basement with boilers |
| **c. Basement floor:** | concrete | dirt | stone | other _____ unknown |
| **d. Basement floor:** | uncovered | covered | covered with _____ unknown | |
| **e. Concrete floor:** | unsealed | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | |
| **h. The basement is:** | wet | damp | dry | moldy unknown |
| **i. The basement is:** | finished | unfinished | partially finished | |
| **j. Sump present?** | Y / N | | | |
| **k. Water in sump?** | Y / N / not applicable | | | |

**Basement/Lowest level depth below grade:** _____(feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

drains, holes in floor

_____

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | Steam radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is**:

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** _____

| | | | | |
|---|---|---|---|---|
| **Boiler/furnace located in:** | Basement | Outdoors | Main Floor | Other_____ |
| **Air conditioning:** | Central Air | Window units | Open Windows | None |

**Are there air distribution ducts present?** (Y) / N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

Air supply vents run east to west located in middle portion of site Building

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom (Almost Never)

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | Small old basement with old boilers |
| 1st Floor | vacant / old dorites facility |
| 2nd Floor | vacant / storage |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N / (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

**d. Has the building ever had a fire?** Y / (N) When?_____

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where?_____

**f. Is there a workshop or hobby/craft area?** Y / (N) Where & Type?_____

**g. Is there smoking in the building?** Y / (N) How frequently?_____

**h. Have cleaning products been used recently?** Y / (N) When & Type?_____

**i. Have cosmetic products been used recently?** Y / (N) When & Type?_____

**j. Has painting/staining been done in the last 6 months?** Y / (N) Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / (N) Where & When? _____

**l. Have air fresheners been used recently?** Y / (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** Y / (N) If yes, where vented? _____

**n. Is there a bathroom exhaust fan?** Y / (N) If yes, where vented? _____

**o. Is there a clothes dryer?** Y / (N) If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y / (N) When & Type? _____

**Are there odors in the building?** Y / (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y / N N/A vacant
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response) N/A vacant buildings

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y / N Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)** N/A

**a. Provide reasons why relocation is recommended:** _____

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

**11. FLOOR PLANS**

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

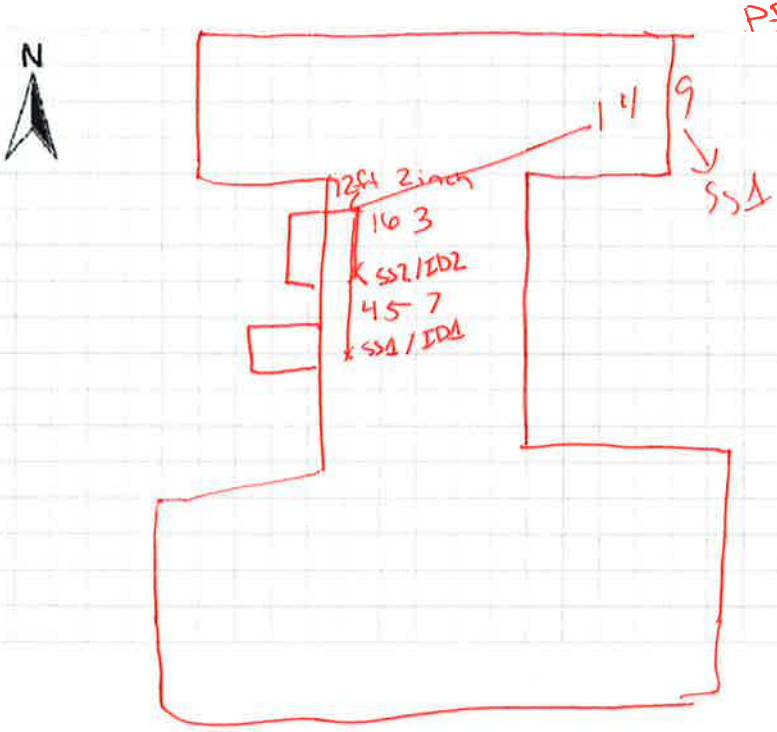
**Basement:**

N/A




**First Floor:**

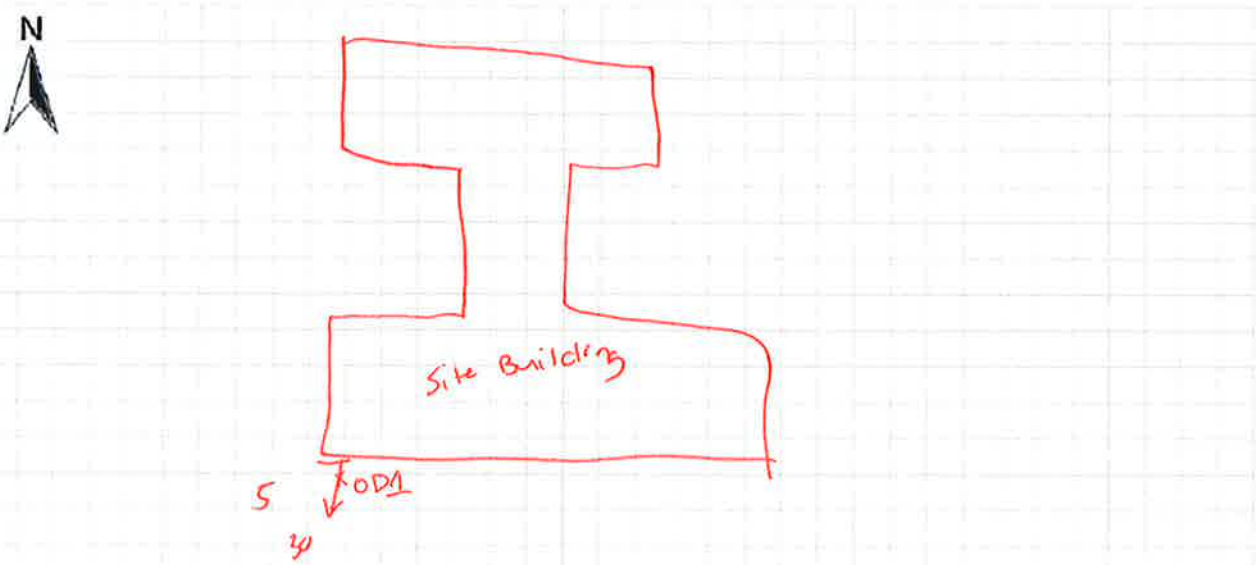
PID readings - 0ppm for all sample locations



## 12. OUTDOOR PLOT

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** _____

**List specific products found in the residence that have the potential to affect indoor air quality.**

None vacant buildings

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo** Y / N |
|---|---|---|---|---|---|---|
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Shannon Dalton Date/Time Prepared 10/4

Preparer's Affiliation LaBella Associates Phone No. 716-710-3043

Purpose of Investigation vapor Intrusion assessment

**1. OCCUPANT:**

**Interviewed:** Y (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

**2. OWNER OR LANDLORD:** (Check if same as occupant ___ )

**Interviewed:** Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response) vacant

| | | |
|---|---|---|
| Residential | School | (Commercial)/Multi-use |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response) N/A

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other:_____ |

**If multiple units, how many?** _____

**If the property is commercial, type?**

Business Type(s) vacant Doritex Building

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

**Other characteristics:**

Number of floors 2 Building age_____

Is the building insulated? (Y) N How air tight? Tight (Average) Not Tight

## 4. AIRFLOW

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

doorways, bay doors, windows

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other Small partial basement |
| **c. Basement floor:** | concrete | dirt | stone | other unknown |
| **d. Basement floor:** | uncovered | covered | covered with unknown | |
| **e. Concrete floor:** | unsealed | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | |
| **h. The basement is:** | wet | damp | dry | moldy unknown |
| **i. The basement is:** | finished | unfinished | partially finished | |
| **j. Sump present?** | Y / N | | | |
| **k. Water in sump?** | Y / N / not applicable | | | |

**Basement/Lowest level depth below grade:** _____(feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

drains, cracks in floor

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | Steam radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is**:

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** _____

| | | | | |
|---|---|---|---|---|
| **Boiler/furnace located in:** | Basement | Outdoors | Main Floor | Other_____ |
| **Air conditioning:** | Central Air | Window units | Open Windows | None |

**Are there air distribution ducts present?** (Y) N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

airway supply vents run east to west
located in middle portion of Site Building

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom (Almost Never)

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | Small old basement w/ old boilers |
| 1st Floor | vacant |
| 2nd Floor | vacant |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N / (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

**d. Has the building ever had a fire?** Y / (N) When?_____

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where?_____

**f. Is there a workshop or hobby/craft area?** Y / (N) Where & Type?_____

**g. Is there smoking in the building?** Y / (N) How frequently?_____

**h. Have cleaning products been used recently?** Y / (N) When & Type?_____

**i. Have cosmetic products been used recently?** Y / (N) When & Type?_____

**j. Has painting/staining been done in the last 6 months?** Y / N Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / N Where & When? _____

**l. Have air fresheners been used recently?** Y / N When & Type? _____

**m. Is there a kitchen exhaust fan?** Y / N If yes, where vented? _____

**n. Is there a bathroom exhaust fan?** Y / N If yes, where vented? _____

**o. Is there a clothes dryer?** Y / N If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y / N When & Type? _____

**Are there odors in the building?** Y / N
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y / N Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** Public Water Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** Public Sewer Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** _____

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

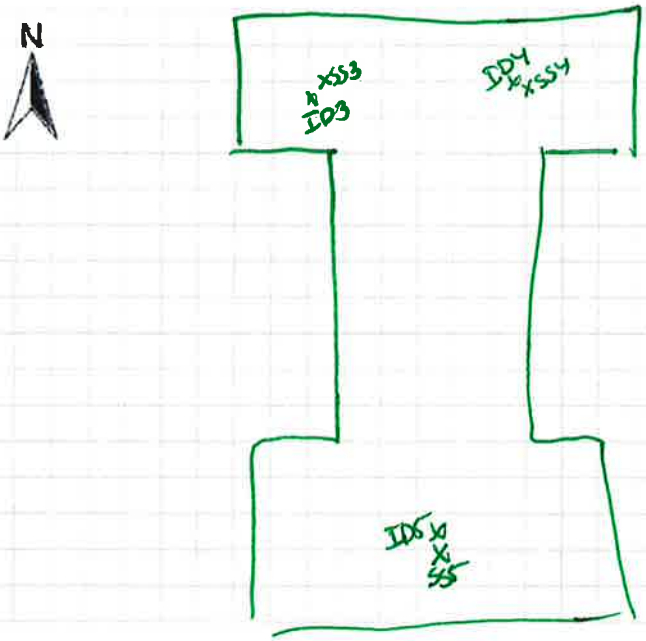
## 11. FLOOR PLANS

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**




**First Floor:**



## 12. OUTDOOR PLOT

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



## 13. PRODUCT INVENTORY FORM

**Make & Model of field instrument used:** _____

**List specific products found in the residence that have the potential to affect indoor air quality.**

None vacuum

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

LABELLA Associates, P.C. | Engineering Architecture Environmental Planning

# APPENDIX 3

**Laboratory Reports**

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1719513 |
| Client: | LaBella Associates, P.C.<br>300 Pearl Street<br>Suite 252<br>Buffalo, NY 14202 |
| ATTN: | Adam Zebrowski |
| Phone: | (716) 551-6281 |
| Project Name: | 11075 WALDEN AVENUE |
| Project Number: | 2171362 |
| Report Date: | 06/19/17 |

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-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719513
**Report Date:** 06/19/17

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1719513-01 | MW-1 | WATER | ALDEN, NY | 06/12/17 09:15 | 06/12/17 |
| L1719513-02 | MW-2 | WATER | ALDEN, NY | 06/12/17 09:45 | 06/12/17 |
| L1719513-03 | MW-3 | WATER | ALDEN, NY | 06/12/17 10:30 | 06/12/17 |
| L1719513-04 | MW-4 | WATER | ALDEN, NY | 06/12/17 11:00 | 06/12/17 |
| L1719513-05 | MW-5 | WATER | ALDEN, NY | 06/12/17 11:25 | 06/12/17 |
| L1719513-06 | MW-6 | WATER | ALDEN, NY | 06/12/17 12:00 | 06/12/17 |
| L1719513-07 | MW-7 | WATER | ALDEN, NY | 06/12/17 12:40 | 06/12/17 |
| L1719513-08 | MW-8 | WATER | ALDEN, NY | 06/12/17 13:00 | 06/12/17 |
| L1719513-09 | MW-9 | WATER | ALDEN, NY | 06/12/17 14:05 | 06/12/17 |

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719513 |
| **Project Number:** | 2171362 | **Report Date:** | 06/19/17 |

## Case Narrative

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

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

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

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

HOLD POLICY

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

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

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719513 |
| **Project Number:** | 2171362 | **Report Date:** | 06/19/17 |

**Case Narrative (continued)**

Report Submission

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

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/19/17

# ORGANICS

# VOLATILES

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-01
Client ID: MW-1
Sample Location: ALDEN, NY

Date Collected: 06/12/17 09:15
Date Received: 06/12/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 12:47
Analyst: PD

| 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 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.36 | J | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.34 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-01 Date Collected: 06/12/17 09:15

Client ID: MW-1 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 18 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | 1.3 | J | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-02 Date Collected: 06/12/17 09:45
Client ID: MW-2 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 13:16
Analyst: PD

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.34 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-02 Date Collected: 06/12/17 09:45

Client ID: MW-2 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 110 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | 3.0 | J | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 27 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-03 Date Collected: 06/12/17 10:30
Client ID: MW-3 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 13:45
Analyst: PD

| 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 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.31 | J | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.50 | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | 0.75 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-03 Date Collected: 06/12/17 10:30

Client ID: MW-3 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 18 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 4.2 | J | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 0.43 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 0.63 | J | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-04 Date Collected: 06/12/17 11:00
Client ID: MW-4 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 14:13
Analyst: NL

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.23 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-04 Date Collected: 06/12/17 11:00

Client ID: MW-4 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 63 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | 1.8 | J | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 15 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-05 Date Collected: 06/12/17 11:25
Client ID: MW-5 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 14:42
Analyst: NL

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.38 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-05 Date Collected: 06/12/17 11:25

Client ID: MW-5 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 58 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | 13 | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 11 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 0.41 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-06 Date Collected: 06/12/17 12:00
Client ID: MW-6 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 15:11
Analyst: NL

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.24 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-06 Date Collected: 06/12/17 12:00

Client ID: MW-6 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 76 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 14 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-07 Date Collected: 06/12/17 12:40
Client ID: MW-7 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 15:39
Analyst: NL

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-07 Date Collected: 06/12/17 12:40

Client ID: MW-7 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 62 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 14 | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | 2.0 | J | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-08 Date Collected: 06/12/17 13:00
Client ID: MW-8 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 16:08
Analyst: NL

| 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 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 0.89 | | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.28 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-08 Date Collected: 06/12/17 13:00

Client ID: MW-8 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 47 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | 3.6 | J | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 12 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

**SAMPLE RESULTS**

Lab ID: L1719513-09 Date Collected: 06/12/17 14:05
Client ID: MW-9 Date Received: 06/12/17
Sample Location: ALDEN, NY Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/17 16:36
Analyst: NL

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.18 | J | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

## SAMPLE RESULTS

Lab ID: L1719513-09 Date Collected: 06/12/17 14:05

Client ID: MW-9 Date Received: 06/12/17

Sample Location: ALDEN, NY Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 30 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | 5.8 | | ug/l | 5.0 | 1.9 | 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 12:19
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1013557-5 | | | | | |
| 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 | 0.14 |
| 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| 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 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 12:19
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1013557-5 | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 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 |
| 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719513

**Project Number:** 2171362 **Report Date:** 06/19/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 12:19
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1013557-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719513
Report Date: 06/19/17

| 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: WG1013557-3 WG1013557-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 96 | | 93 | | 70-130 | 3 | | 20 |
| Chloroform | 97 | | 94 | | 70-130 | 3 | | 20 |
| Carbon tetrachloride | 100 | | 98 | | 63-132 | 2 | | 20 |
| 1,2-Dichloropropane | 88 | | 87 | | 70-130 | 1 | | 20 |
| Dibromochloromethane | 95 | | 93 | | 63-130 | 2 | | 20 |
| 1,1,2-Trichloroethane | 91 | | 91 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | 96 | | 94 | | 70-130 | 2 | | 20 |
| Chlorobenzene | 90 | | 88 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 98 | | 97 | | 70-130 | 1 | | 20 |
| 1,1,1-Trichloroethane | 99 | | 96 | | 67-130 | 3 | | 20 |
| Bromodichloromethane | 93 | | 94 | | 67-130 | 1 | | 20 |
| trans-1,3-Dichloropropene | 95 | | 92 | | 70-130 | 3 | | 20 |
| cis-1,3-Dichloropropene | 96 | | 94 | | 70-130 | 2 | | 20 |
| Bromoform | 94 | | 91 | | 54-136 | 3 | | 20 |
| 1,1,2,2-Tetrachloroethane | 85 | | 85 | | 67-130 | 0 | | 20 |
| Benzene | 96 | | 94 | | 70-130 | 2 | | 20 |
| Toluene | 90 | | 88 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 88 | | 86 | | 70-130 | 2 | | 20 |
| Chloromethane | 120 | | 120 | | 64-130 | 0 | | 20 |
| Bromomethane | 110 | | 110 | | 39-139 | 0 | | 20 |
| Vinyl chloride | 130 | | 120 | | 55-140 | 8 | | 20 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719513
Report Date: 06/19/17

| 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: WG1013557-3 WG1013557-4 | | | | | | | | |
| Chloroethane | 120 | | 120 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 97 | | 93 | | 70-130 | 4 | | 20 |
| 1,2-Dichlorobenzene | 88 | | 89 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 90 | | 89 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 87 | | 88 | | 70-130 | 1 | | 20 |
| Methyl tert butyl ether | 110 | | 100 | | 63-130 | 10 | | 20 |
| p/m-Xylene | 90 | | 90 | | 70-130 | 0 | | 20 |
| o-Xylene | 90 | | 90 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 99 | | 70-130 | 1 | | 20 |
| Styrene | 90 | | 90 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 250 | Q | 240 | Q | 36-147 | 4 | | 20 |
| Acetone | 93 | | 94 | | 58-148 | 1 | | 20 |
| Carbon disulfide | 110 | | 120 | | 51-130 | 9 | | 20 |
| 2-Butanone | 100 | | 100 | | 63-138 | 0 | | 20 |
| 4-Methyl-2-pentanone | 83 | | 83 | | 59-130 | 0 | | 20 |
| 2-Hexanone | 78 | | 76 | | 57-130 | 3 | | 20 |
| Bromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | 96 | | 94 | | 70-130 | 2 | | 20 |
| 1,2-Dibromo-3-chloropropane | 83 | | 81 | | 41-144 | 2 | | 20 |
| Isopropylbenzene | 88 | | 87 | | 70-130 | 1 | | 20 |
| 1,2,3-Trichlorobenzene | 80 | | 70 | | 70-130 | 13 | | 20 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719513
Report Date: 06/19/17

| 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: WG1013557-3 WG1013557-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 76 | | 74 | | 70-130 | 3 | | 20 |
| Methyl Acetate | 95 | | 87 | | 70-130 | 9 | | 20 |
| Cyclohexane | 90 | | 88 | | 70-130 | 2 | | 20 |
| 1,4-Dioxane | 122 | | 106 | | 56-162 | 14 | | 20 |
| Freon-113 | 110 | | 100 | | 70-130 | 10 | | 20 |
| Methyl cyclohexane | 94 | | 91 | | 70-130 | 3 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 99 | | 70-130 |
| Toluene-d8 | 97 | | 97 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 99 | | 70-130 |
| Dibromofluoromethane | 103 | | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719513
**Report Date:** 06/19/17

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1719513-01A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-01B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-01C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-02A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-02B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-03A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-03B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-03C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-04A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-04B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-04C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-05A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-05B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-06A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-06B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-06C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-07A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-07B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-07C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-08A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-08B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-08C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-09A | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719513
**Report Date:** 06/19/17

***Container Information***

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1719513-09B | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |
| L1719513-09C | Vial HCl preserved | A | NA | | 2.1 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| Project Name: | 11075 WALDEN AVENUE | Lab Number: | L1719513 |
| Project Number: | 2171362 | Report Date: | 06/19/17 |

# GLOSSARY

*Acronyms*

| | |
|---|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

***Footnotes***

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

***Terms***

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

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

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

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

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

***Data Qualifiers***

| | |
|---|---|
| **A** | - Spectra identified as "Aldol Condensation Product". |
| **B** | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related |

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719513 |
| **Project Number:** | 2171362 | **Report Date:** | 06/19/17 |

***Data Qualifiers***

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

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

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

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

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

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

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

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

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

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

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

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

**J** - Estimated value. 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:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719513 |
| **Project Number:** | 2171362 | **Report Date:** | 06/19/17 |

## REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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.

# 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 1

Date Rec'd in Lab: 6/13/17

ALPHA Job #: L1719513

## Client Information

Client: Labella Associates
Address: 300 Pearl Street, Suite 120
Buffalo, NY 14202
Phone: 716-710-3038
Fax: 716-881-6282
Email: jdombrowski@labellapc.com

## Project Information

Project Name: 1105 Walden Avenue
Project Location: Alden, NY
Project # 2171362
(Use Project name as Project #) ☐
Project Manager: Adam Zebrowski
ALPHAQuote #:

## Turn-Around Time

Standard ☐ Due Date:
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:

## ANALYSIS

TCL VOCs by 8260

**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 | TCL VOCs by 8260 | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|
| 19513-01 | MW-1 | 6/12/17 | 915 | GW | JLD | X | | 3 |
| 02 | MW-2 | 6/12/17 | 945 | GW | JLD | X | | 3 |
| 03 | MW-3 | 6/12/17 | 1030 | GW | JLD | X | | 3 |
| 04 | MW-4 | 6/12/17 | 1100 | GW | JLD | X | | 3 |
| 05 | MW-5 | 6/12/17 | 1125 | GW | JLD | X | | 3 |
| 06 | MW-6 | 6/12/17 | 1200 | GW | JLD | X | | 3 |
| 07 | MW-7 | 6/12/17 | 1240 | GW | JLD | X | | 3 |
| 08 | MW-8 | 6/12/17 | 1300 | GW | JLD | X | | 3 |
| 09 | MW-9 | 6/12/17 | 1405 | GW | JLD | X | | 3 |

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 |
|---|---|---|---|
| | 6/12/17 1440 | | 6.12.17@ 1440 |
| | 6.12.17 1440 | | 6/13/17 00:20 |

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.)

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1719393 |
| Client: | LaBella Associates, P.C.<br>300 Pearl Street<br>Suite 252<br>Buffalo, NY 14202 |
| ATTN: | Adam Zebrowski |
| Phone: | (716) 551-6281 |
| Project Name: | 11075 WALDEN AVENUE |
| Project Number: | 2171362 |
| Report Date: | 06/16/17 |

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-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719393
**Report Date:** 06/16/17

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1719393-01 | SB-1D0.31 | SOIL | ALDEN, NY 14004 | 06/08/17 09:00 | 06/09/17 |
| L1719393-02 | SB-2D12 | SOIL | ALDEN, NY 14004 | 06/08/17 10:15 | 06/09/17 |
| L1719393-03 | SB-3D910 | SOIL | ALDEN, NY 14004 | 06/08/17 11:15 | 06/09/17 |
| L1719393-04 | SB-4D56 | SOIL | ALDEN, NY 14004 | 06/08/17 12:15 | 06/09/17 |
| L1719393-05 | SB-6D1011 | SOIL | ALDEN, NY 14004 | 06/08/17 15:00 | 06/09/17 |
| L1719393-06 | SB-7D45 | SOIL | ALDEN, NY 14004 | 06/08/17 17:00 | 06/09/17 |
| L1719393-07 | SB-8D23 | SOIL | ALDEN, NY 14004 | 06/08/17 17:30 | 06/09/17 |
| L1719393-08 | SB-11D12 | SOIL | ALDEN, NY 14004 | 06/09/17 08:15 | 06/09/17 |
| L1719393-09 | SB-12D0.61 | SOIL | ALDEN, NY 14004 | 06/09/17 08:45 | 06/09/17 |
| L1719393-10 | SB-13AD23 | SOIL | ALDEN, NY 14004 | 06/09/17 11:00 | 06/09/17 |
| L1719393-11 | SB-14D89 | SOIL | ALDEN, NY 14004 | 06/09/17 12:30 | 06/09/17 |
| L1719393-12 | SB-16D12 | SOIL | ALDEN, NY 14004 | 06/09/17 13:50 | 06/09/17 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393
**Project Number:** 2171362 **Report Date:** 06/16/17

## 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:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719393 |
| **Project Number:** | 2171362 | **Report Date:** | 06/16/17 |

**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

L1719393-07: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (59%) is below the acceptance criteria; however, re-analysis yielded no internal standard or surrogate recoveries. The results of the original analysis are reported. A high-level analysis was performed and those results are also reported.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/16/17

# ORGANICS

# VOLATILES

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-01 Date Collected: 06/08/17 09:00
Client ID: SB-1D0.31 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 09:44
Analyst: MV
Percent Solids: 91%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 10 | 1.6 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.5 | 0.27 | 1 |
| Chloroform | ND | | ug/kg | 1.5 | 0.37 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 1.0 | 0.34 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 3.5 | 0.23 | 1 |
| Dibromochloromethane | ND | | ug/kg | 1.0 | 0.18 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.5 | 0.31 | 1 |
| Tetrachloroethene | 1.3 | | ug/kg | 1.0 | 0.30 | 1 |
| Chlorobenzene | ND | | ug/kg | 1.0 | 0.35 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 5.0 | 0.42 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.0 | 0.25 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 1.0 | 0.35 | 1 |
| Bromodichloromethane | ND | | ug/kg | 1.0 | 0.31 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.21 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.23 | 1 |
| Bromoform | ND | | ug/kg | 4.0 | 0.24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 1.0 | 0.30 | 1 |
| Benzene | ND | | ug/kg | 1.0 | 0.19 | 1 |
| Toluene | 0.24 | J | ug/kg | 1.5 | 0.20 | 1 |
| Ethylbenzene | ND | | ug/kg | 1.0 | 0.17 | 1 |
| Chloromethane | ND | | ug/kg | 5.0 | 0.44 | 1 |
| Bromomethane | ND | | ug/kg | 2.0 | 0.34 | 1 |
| Vinyl chloride | ND | | ug/kg | 2.0 | 0.32 | 1 |
| Chloroethane | ND | | ug/kg | 2.0 | 0.32 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 1.0 | 0.37 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.5 | 0.24 | 1 |
| Trichloroethene | ND | | ug/kg | 1.0 | 0.30 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.22 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-01 Date Collected: 06/08/17 09:00

Client ID: SB-1D0.31 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 2.0 | 0.15 | 1 |
| p/m-Xylene | ND | | ug/kg | 2.0 | 0.35 | 1 |
| o-Xylene | ND | | ug/kg | 2.0 | 0.34 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 1.0 | 0.34 | 1 |
| Styrene | ND | | ug/kg | 2.0 | 0.40 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 10 | 0.50 | 1 |
| Acetone | 2.7 | J | ug/kg | 10 | 2.3 | 1 |
| Carbon disulfide | ND | | ug/kg | 10 | 1.1 | 1 |
| 2-Butanone | ND | | ug/kg | 10 | 0.69 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 10 | 0.24 | 1 |
| 2-Hexanone | ND | | ug/kg | 10 | 0.67 | 1 |
| Bromochloromethane | ND | | ug/kg | 5.0 | 0.36 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 4.0 | 0.20 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 5.0 | 0.40 | 1 |
| Isopropylbenzene | ND | | ug/kg | 1.0 | 0.19 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.22 | 1 |
| Methyl Acetate | ND | | ug/kg | 20 | 0.46 | 1 |
| Cyclohexane | 0.44 | J | ug/kg | 20 | 0.43 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 40 | 14. | 1 |
| Freon-113 | ND | | ug/kg | 20 | 0.52 | 1 |
| Methyl cyclohexane | 0.58 | J | ug/kg | 4.0 | 0.24 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 70-130 |
| Dibromofluoromethane | 89 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-03
Client ID: SB-3D910
Sample Location: ALDEN, NY 14004

Date Collected: 06/08/17 11:15
Date Received: 06/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 10:10
Analyst: MV
Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.4 | 1.2 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.1 | 0.20 | 1 |
| Chloroform | ND | | ug/kg | 1.1 | 0.27 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.74 | 0.25 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.6 | 0.17 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.74 | 0.13 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.1 | 0.23 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.74 | 0.22 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.74 | 0.26 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.7 | 0.31 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.74 | 0.18 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.74 | 0.26 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.74 | 0.23 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.74 | 0.15 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.74 | 0.17 | 1 |
| Bromoform | ND | | ug/kg | 3.0 | 0.17 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.74 | 0.22 | 1 |
| Benzene | ND | | ug/kg | 0.74 | 0.14 | 1 |
| Toluene | ND | | ug/kg | 1.1 | 0.14 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.74 | 0.12 | 1 |
| Chloromethane | ND | | ug/kg | 3.7 | 0.32 | 1 |
| Bromomethane | ND | | ug/kg | 1.5 | 0.25 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.5 | 0.23 | 1 |
| Chloroethane | ND | | ug/kg | 1.5 | 0.23 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.74 | 0.27 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.1 | 0.18 | 1 |
| Trichloroethene | ND | | ug/kg | 0.74 | 0.22 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.13 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.16 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.13 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-03 Date Collected: 06/08/17 11:15

Client ID: SB-3D910 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.5 | 0.11 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.5 | 0.26 | 1 |
| o-Xylene | ND | | ug/kg | 1.5 | 0.25 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.74 | 0.25 | 1 |
| Styrene | ND | | ug/kg | 1.5 | 0.30 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.4 | 0.37 | 1 |
| Acetone | ND | | ug/kg | 7.4 | 1.7 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.4 | 0.81 | 1 |
| 2-Butanone | ND | | ug/kg | 7.4 | 0.51 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.4 | 0.18 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.4 | 0.49 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.7 | 0.26 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.0 | 0.15 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.7 | 0.29 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.74 | 0.14 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.7 | 0.18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.7 | 0.16 | 1 |
| Methyl Acetate | ND | | ug/kg | 15 | 0.34 | 1 |
| Cyclohexane | ND | | ug/kg | 15 | 0.32 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 30 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 15 | 0.38 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.0 | 0.18 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-04 Date Collected: 06/08/17 12:15
Client ID: SB-4D56 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 10:36
Analyst: MV
Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.4 | 1.2 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.1 | 0.20 | 1 |
| Chloroform | ND | | ug/kg | 1.1 | 0.27 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.74 | 0.26 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.6 | 0.17 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.74 | 0.13 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.1 | 0.23 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.74 | 0.22 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.74 | 0.26 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.7 | 0.31 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.74 | 0.18 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.74 | 0.26 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.74 | 0.23 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.74 | 0.15 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.74 | 0.17 | 1 |
| Bromoform | ND | | ug/kg | 3.0 | 0.18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.74 | 0.22 | 1 |
| Benzene | ND | | ug/kg | 0.74 | 0.14 | 1 |
| Toluene | ND | | ug/kg | 1.1 | 0.14 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.74 | 0.13 | 1 |
| Chloromethane | ND | | ug/kg | 3.7 | 0.32 | 1 |
| Bromomethane | ND | | ug/kg | 1.5 | 0.25 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.5 | 0.23 | 1 |
| Chloroethane | ND | | ug/kg | 1.5 | 0.23 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.74 | 0.28 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.1 | 0.18 | 1 |
| Trichloroethene | ND | | ug/kg | 0.74 | 0.22 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.13 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.16 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.7 | 0.13 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-04 Date Collected: 06/08/17 12:15

Client ID: SB-4D56 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.5 | 0.11 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.5 | 0.26 | 1 |
| o-Xylene | ND | | ug/kg | 1.5 | 0.25 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.74 | 0.25 | 1 |
| Styrene | ND | | ug/kg | 1.5 | 0.30 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.4 | 0.37 | 1 |
| Acetone | ND | | ug/kg | 7.4 | 1.7 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.4 | 0.82 | 1 |
| 2-Butanone | ND | | ug/kg | 7.4 | 0.51 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.4 | 0.18 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.4 | 0.49 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.7 | 0.26 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.0 | 0.15 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.7 | 0.29 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.74 | 0.14 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.7 | 0.19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.7 | 0.16 | 1 |
| Methyl Acetate | ND | | ug/kg | 15 | 0.34 | 1 |
| Cyclohexane | 0.35 | J | ug/kg | 15 | 0.32 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 30 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 15 | 0.38 | 1 |
| Methyl cyclohexane | 0.33 | J | ug/kg | 3.0 | 0.18 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-05
Client ID: SB-6D1011
Sample Location: ALDEN, NY 14004

Date Collected: 06/08/17 15:00
Date Received: 06/09/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 11:02
Analyst: MV
Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.3 | 1.2 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.1 | 0.20 | 1 |
| Chloroform | ND | | ug/kg | 1.1 | 0.27 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.73 | 0.25 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.6 | 0.17 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.73 | 0.13 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.1 | 0.23 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.73 | 0.22 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.73 | 0.25 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.6 | 0.30 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.73 | 0.18 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.73 | 0.26 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.73 | 0.22 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.73 | 0.15 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.73 | 0.17 | 1 |
| Bromoform | ND | | ug/kg | 2.9 | 0.17 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.73 | 0.22 | 1 |
| Benzene | ND | | ug/kg | 0.73 | 0.14 | 1 |
| Toluene | ND | | ug/kg | 1.1 | 0.14 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.73 | 0.12 | 1 |
| Chloromethane | ND | | ug/kg | 3.6 | 0.32 | 1 |
| Bromomethane | ND | | ug/kg | 1.5 | 0.25 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.5 | 0.23 | 1 |
| Chloroethane | ND | | ug/kg | 1.5 | 0.23 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.73 | 0.27 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.1 | 0.18 | 1 |
| Trichloroethene | ND | | ug/kg | 0.73 | 0.22 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.6 | 0.13 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.6 | 0.16 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.6 | 0.13 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-05 Date Collected: 06/08/17 15:00

Client ID: SB-6D1011 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.5 | 0.11 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.5 | 0.26 | 1 |
| o-Xylene | ND | | ug/kg | 1.5 | 0.25 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.73 | 0.25 | 1 |
| Styrene | ND | | ug/kg | 1.5 | 0.29 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.3 | 0.36 | 1 |
| Acetone | 6.7 | J | ug/kg | 7.3 | 1.7 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.3 | 0.80 | 1 |
| 2-Butanone | ND | | ug/kg | 7.3 | 0.50 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.3 | 0.18 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.3 | 0.49 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.6 | 0.26 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 2.9 | 0.14 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.6 | 0.29 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.73 | 0.14 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.6 | 0.18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.6 | 0.16 | 1 |
| Methyl Acetate | ND | | ug/kg | 15 | 0.34 | 1 |
| Cyclohexane | ND | | ug/kg | 15 | 0.32 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 29 | 10. | 1 |
| Freon-113 | ND | | ug/kg | 15 | 0.38 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 2.9 | 0.18 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-06 Date Collected: 06/08/17 17:00
Client ID: SB-7D45 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 11:27
Analyst: MV
Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.8 | 1.3 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.21 | 1 |
| Chloroform | ND | | ug/kg | 1.2 | 0.29 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.78 | 0.27 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.7 | 0.18 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.78 | 0.14 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.24 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.78 | 0.24 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.78 | 0.27 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.9 | 0.33 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.78 | 0.19 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.78 | 0.27 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.78 | 0.24 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.78 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.78 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 3.1 | 0.18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.78 | 0.23 | 1 |
| Benzene | ND | | ug/kg | 0.78 | 0.15 | 1 |
| Toluene | ND | | ug/kg | 1.2 | 0.15 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.78 | 0.13 | 1 |
| Chloromethane | ND | | ug/kg | 3.9 | 0.34 | 1 |
| Bromomethane | ND | | ug/kg | 1.6 | 0.26 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.6 | 0.25 | 1 |
| Chloroethane | ND | | ug/kg | 1.6 | 0.25 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.78 | 0.29 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.2 | 0.19 | 1 |
| Trichloroethene | ND | | ug/kg | 0.78 | 0.24 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.14 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.14 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-06 Date Collected: 06/08/17 17:00

Client ID: SB-7D45 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.6 | 0.12 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.6 | 0.28 | 1 |
| o-Xylene | ND | | ug/kg | 1.6 | 0.26 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.78 | 0.27 | 1 |
| Styrene | ND | | ug/kg | 1.6 | 0.31 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.8 | 0.39 | 1 |
| Acetone | ND | | ug/kg | 7.8 | 1.8 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.8 | 0.86 | 1 |
| 2-Butanone | ND | | ug/kg | 7.8 | 0.54 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.8 | 0.19 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.8 | 0.52 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.9 | 0.28 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.1 | 0.16 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.9 | 0.31 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.78 | 0.15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.9 | 0.20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.9 | 0.17 | 1 |
| Methyl Acetate | ND | | ug/kg | 16 | 0.36 | 1 |
| Cyclohexane | ND | | ug/kg | 16 | 0.34 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 31 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 16 | 0.40 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.1 | 0.19 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-07 Date Collected: 06/08/17 17:30
Client ID: SB-8D23 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 11:53
Analyst: MV
Percent Solids: 83%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 8.0 | 1.3 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.22 | 1 |
| Chloroform | ND | | ug/kg | 1.2 | 0.30 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.80 | 0.28 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.8 | 0.18 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.80 | 0.14 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.25 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.80 | 0.24 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.80 | 0.28 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 4.0 | 0.33 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.80 | 0.20 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.80 | 0.28 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.80 | 0.25 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.80 | 0.17 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.80 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 3.2 | 0.19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.80 | 0.24 | 1 |
| Benzene | ND | | ug/kg | 0.80 | 0.15 | 1 |
| Toluene | ND | | ug/kg | 1.2 | 0.16 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.80 | 0.14 | 1 |
| Chloromethane | ND | | ug/kg | 4.0 | 0.35 | 1 |
| Bromomethane | ND | | ug/kg | 1.6 | 0.27 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.6 | 0.25 | 1 |
| Chloroethane | ND | | ug/kg | 1.6 | 0.25 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.80 | 0.30 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.2 | 0.19 | 1 |
| Trichloroethene | ND | | ug/kg | 0.80 | 0.24 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.15 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.15 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-07 Date Collected: 06/08/17 17:30

Client ID: SB-8D23 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.6 | 0.12 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.6 | 0.28 | 1 |
| o-Xylene | ND | | ug/kg | 1.6 | 0.27 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.80 | 0.27 | 1 |
| Styrene | ND | | ug/kg | 1.6 | 0.32 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 8.0 | 0.40 | 1 |
| Acetone | 22 | | ug/kg | 8.0 | 1.8 | 1 |
| Carbon disulfide | ND | | ug/kg | 8.0 | 0.88 | 1 |
| 2-Butanone | ND | | ug/kg | 8.0 | 0.55 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 8.0 | 0.20 | 1 |
| 2-Hexanone | ND | | ug/kg | 8.0 | 0.53 | 1 |
| Bromochloromethane | ND | | ug/kg | 4.0 | 0.29 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.2 | 0.16 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 4.0 | 0.32 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.80 | 0.16 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 4.0 | 0.20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 4.0 | 0.17 | 1 |
| Methyl Acetate | ND | | ug/kg | 16 | 0.37 | 1 |
| Cyclohexane | ND | | ug/kg | 16 | 0.35 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 32 | 12. | 1 |
| Freon-113 | ND | | ug/kg | 16 | 0.41 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.2 | 0.19 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-07 Date Collected: 06/08/17 17:30
Client ID: SB-8D23 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/16/17 09:15
Analyst: MV
Percent Solids: 83%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 560 | 93. | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 85 | 15. | 1 |
| Chloroform | ND | | ug/kg | 85 | 21. | 1 |
| Carbon tetrachloride | ND | | ug/kg | 56 | 19. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 200 | 13. | 1 |
| Dibromochloromethane | ND | | ug/kg | 56 | 9.9 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 85 | 18. | 1 |
| Tetrachloroethene | ND | | ug/kg | 56 | 17. | 1 |
| Chlorobenzene | ND | | ug/kg | 56 | 20. | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 280 | 24. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 56 | 14. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 56 | 20. | 1 |
| Bromodichloromethane | ND | | ug/kg | 56 | 17. | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 56 | 12. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 56 | 13. | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 56 | 12. | 1 |
| Bromoform | ND | | ug/kg | 220 | 13. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 56 | 17. | 1 |
| Benzene | ND | | ug/kg | 56 | 11. | 1 |
| Toluene | ND | | ug/kg | 85 | 11. | 1 |
| Ethylbenzene | ND | | ug/kg | 56 | 9.6 | 1 |
| Chloromethane | ND | | ug/kg | 280 | 25. | 1 |
| Bromomethane | ND | | ug/kg | 110 | 19. | 1 |
| Vinyl chloride | ND | | ug/kg | 110 | 18. | 1 |
| Chloroethane | ND | | ug/kg | 110 | 18. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 56 | 21. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 85 | 14. | 1 |
| Trichloroethene | ND | | ug/kg | 56 | 17. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 280 | 10. | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 280 | 12. | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-07 Date Collected: 06/08/17 17:30

Client ID: SB-8D23 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 280 | 10. | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 110 | 8.6 | 1 |
| p/m-Xylene | ND | | ug/kg | 110 | 20. | 1 |
| o-Xylene | ND | | ug/kg | 110 | 19. | 1 |
| Xylenes, Total | ND | | ug/kg | 110 | 19. | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 56 | 19. | 1 |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 56 | 14. | 1 |
| Styrene | ND | | ug/kg | 110 | 23. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 560 | 28. | 1 |
| Acetone | ND | | ug/kg | 560 | 130 | 1 |
| Carbon disulfide | ND | | ug/kg | 560 | 62. | 1 |
| 2-Butanone | ND | | ug/kg | 560 | 39. | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 560 | 14. | 1 |
| 2-Hexanone | ND | | ug/kg | 560 | 38. | 1 |
| Bromochloromethane | ND | | ug/kg | 280 | 20. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 220 | 11. | 1 |
| n-Butylbenzene | ND | | ug/kg | 56 | 13. | 1 |
| sec-Butylbenzene | ND | | ug/kg | 56 | 12. | 1 |
| tert-Butylbenzene | ND | | ug/kg | 280 | 14. | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 280 | 22. | 1 |
| Isopropylbenzene | ND | | ug/kg | 56 | 11. | 1 |
| p-Isopropyltoluene | 25 | J | ug/kg | 56 | 11. | 1 |
| Naphthalene | ND | | ug/kg | 280 | 7.8 | 1 |
| n-Propylbenzene | ND | | ug/kg | 56 | 12. | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 280 | 14. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 280 | 12. | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 280 | 9.1 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 280 | 10. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 2200 | 810 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 95 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-10 Date Collected: 06/09/17 11:00
Client ID: SB-13AD23 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 21:18
Analyst: MV
Percent Solids: 84%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.7 | 1.3 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.21 | 1 |
| Chloroform | ND | | ug/kg | 1.2 | 0.29 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.77 | 0.27 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.7 | 0.18 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.77 | 0.14 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.24 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.77 | 0.23 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.77 | 0.27 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.9 | 0.32 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.77 | 0.19 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.77 | 0.27 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.77 | 0.24 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.77 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.77 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 3.1 | 0.18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.77 | 0.23 | 1 |
| Benzene | ND | | ug/kg | 0.77 | 0.15 | 1 |
| Toluene | ND | | ug/kg | 1.2 | 0.15 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.77 | 0.13 | 1 |
| Chloromethane | ND | | ug/kg | 3.9 | 0.34 | 1 |
| Bromomethane | ND | | ug/kg | 1.5 | 0.26 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.5 | 0.24 | 1 |
| Chloroethane | ND | | ug/kg | 1.5 | 0.24 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.77 | 0.29 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.2 | 0.19 | 1 |
| Trichloroethene | ND | | ug/kg | 0.77 | 0.23 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.14 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.9 | 0.14 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-10 Date Collected: 06/09/17 11:00

Client ID: SB-13AD23 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.5 | 0.12 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.5 | 0.27 | 1 |
| o-Xylene | ND | | ug/kg | 1.5 | 0.26 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.77 | 0.26 | 1 |
| Styrene | ND | | ug/kg | 1.5 | 0.31 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.7 | 0.39 | 1 |
| Acetone | 56 | | ug/kg | 7.7 | 1.8 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.7 | 0.85 | 1 |
| 2-Butanone | 9.2 | | ug/kg | 7.7 | 0.53 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.7 | 0.19 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.7 | 0.52 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.9 | 0.28 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.1 | 0.15 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.9 | 0.31 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.77 | 0.15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.9 | 0.19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.9 | 0.17 | 1 |
| Methyl Acetate | ND | | ug/kg | 15 | 0.36 | 1 |
| Cyclohexane | ND | | ug/kg | 15 | 0.34 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 31 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 15 | 0.40 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.1 | 0.18 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-11 Date Collected: 06/09/17 12:30
Client ID: SB-14D89 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 21:48
Analyst: MV
Percent Solids: 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 7.6 | 1.3 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.1 | 0.21 | 1 |
| Chloroform | ND | | ug/kg | 1.1 | 0.28 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.76 | 0.26 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.7 | 0.17 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.76 | 0.13 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.1 | 0.24 | 1 |
| Tetrachloroethene | 170 | | ug/kg | 0.76 | 0.23 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.76 | 0.26 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 3.8 | 0.32 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.76 | 0.19 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.76 | 0.27 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.76 | 0.24 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.76 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.76 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 3.0 | 0.18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.76 | 0.23 | 1 |
| Benzene | ND | | ug/kg | 0.76 | 0.15 | 1 |
| Toluene | ND | | ug/kg | 1.1 | 0.15 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.76 | 0.13 | 1 |
| Chloromethane | ND | | ug/kg | 3.8 | 0.33 | 1 |
| Bromomethane | ND | | ug/kg | 1.5 | 0.26 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.5 | 0.24 | 1 |
| Chloroethane | ND | | ug/kg | 1.5 | 0.24 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.76 | 0.28 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.1 | 0.18 | 1 |
| Trichloroethene | 5.6 | | ug/kg | 0.76 | 0.23 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 3.8 | 0.14 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 3.8 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 3.8 | 0.14 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-11 Date Collected: 06/09/17 12:30

Client ID: SB-14D89 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.5 | 0.12 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.5 | 0.27 | 1 |
| o-Xylene | ND | | ug/kg | 1.5 | 0.26 | 1 |
| cis-1,2-Dichloroethene | 1.1 | | ug/kg | 0.76 | 0.26 | 1 |
| Styrene | ND | | ug/kg | 1.5 | 0.31 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 7.6 | 0.38 | 1 |
| Acetone | ND | | ug/kg | 7.6 | 1.7 | 1 |
| Carbon disulfide | ND | | ug/kg | 7.6 | 0.84 | 1 |
| 2-Butanone | ND | | ug/kg | 7.6 | 0.53 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 7.6 | 0.19 | 1 |
| 2-Hexanone | ND | | ug/kg | 7.6 | 0.51 | 1 |
| Bromochloromethane | ND | | ug/kg | 3.8 | 0.27 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.0 | 0.15 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 3.8 | 0.30 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.76 | 0.15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 3.8 | 0.19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 3.8 | 0.16 | 1 |
| Methyl Acetate | ND | | ug/kg | 15 | 0.35 | 1 |
| Cyclohexane | ND | | ug/kg | 15 | 0.33 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 30 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 15 | 0.39 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.0 | 0.18 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

**SAMPLE RESULTS**

Lab ID: L1719393-12 Date Collected: 06/09/17 13:50
Client ID: SB-16D12 Date Received: 06/09/17
Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/15/17 22:13
Analyst: MV
Percent Solids: 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 8.0 | 1.3 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.2 | 0.22 | 1 |
| Chloroform | ND | | ug/kg | 1.2 | 0.29 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 0.80 | 0.27 | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 2.8 | 0.18 | 1 |
| Dibromochloromethane | ND | | ug/kg | 0.80 | 0.14 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.2 | 0.25 | 1 |
| Tetrachloroethene | ND | | ug/kg | 0.80 | 0.24 | 1 |
| Chlorobenzene | ND | | ug/kg | 0.80 | 0.28 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 4.0 | 0.33 | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 0.80 | 0.20 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 0.80 | 0.28 | 1 |
| Bromodichloromethane | ND | | ug/kg | 0.80 | 0.24 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 0.80 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 0.80 | 0.18 | 1 |
| Bromoform | ND | | ug/kg | 3.2 | 0.19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 0.80 | 0.24 | 1 |
| Benzene | ND | | ug/kg | 0.80 | 0.15 | 1 |
| Toluene | ND | | ug/kg | 1.2 | 0.16 | 1 |
| Ethylbenzene | ND | | ug/kg | 0.80 | 0.14 | 1 |
| Chloromethane | ND | | ug/kg | 4.0 | 0.35 | 1 |
| Bromomethane | ND | | ug/kg | 1.6 | 0.27 | 1 |
| Vinyl chloride | ND | | ug/kg | 1.6 | 0.25 | 1 |
| Chloroethane | ND | | ug/kg | 1.6 | 0.25 | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 0.80 | 0.30 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.2 | 0.19 | 1 |
| Trichloroethene | ND | | ug/kg | 0.80 | 0.24 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.14 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.17 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 4.0 | 0.14 | 1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-12 Date Collected: 06/09/17 13:50

Client ID: SB-16D12 Date Received: 06/09/17

Sample Location: ALDEN, NY 14004 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by 8260/5035 - Westborough Lab** | | | | | | |
| Methyl tert butyl ether | ND | | ug/kg | 1.6 | 0.12 | 1 |
| p/m-Xylene | ND | | ug/kg | 1.6 | 0.28 | 1 |
| o-Xylene | ND | | ug/kg | 1.6 | 0.27 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 0.80 | 0.27 | 1 |
| Styrene | ND | | ug/kg | 1.6 | 0.32 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 8.0 | 0.40 | 1 |
| Acetone | ND | | ug/kg | 8.0 | 1.8 | 1 |
| Carbon disulfide | ND | | ug/kg | 8.0 | 0.88 | 1 |
| 2-Butanone | ND | | ug/kg | 8.0 | 0.55 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 8.0 | 0.19 | 1 |
| 2-Hexanone | ND | | ug/kg | 8.0 | 0.53 | 1 |
| Bromochloromethane | ND | | ug/kg | 4.0 | 0.28 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 3.2 | 0.16 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 4.0 | 0.32 | 1 |
| Isopropylbenzene | ND | | ug/kg | 0.80 | 0.15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 4.0 | 0.20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 4.0 | 0.17 | 1 |
| Methyl Acetate | ND | | ug/kg | 16 | 0.37 | 1 |
| Cyclohexane | ND | | ug/kg | 16 | 0.34 | 1 |
| 1,4-Dioxane | ND | | ug/kg | 32 | 11. | 1 |
| Freon-113 | ND | | ug/kg | 16 | 0.41 | 1 |
| Methyl cyclohexane | ND | | ug/kg | 3.2 | 0.19 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 08:53
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-07 Batch: WG1013797-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 10 | 1.6 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.5 | 0.27 |
| Chloroform | ND | | ug/kg | 1.5 | 0.37 |
| Carbon tetrachloride | ND | | ug/kg | 1.0 | 0.34 |
| 1,2-Dichloropropane | ND | | ug/kg | 3.5 | 0.23 |
| Dibromochloromethane | ND | | ug/kg | 1.0 | 0.18 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.5 | 0.31 |
| Tetrachloroethene | ND | | ug/kg | 1.0 | 0.30 |
| Chlorobenzene | ND | | ug/kg | 1.0 | 0.35 |
| Trichlorofluoromethane | ND | | ug/kg | 5.0 | 0.42 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.0 | 0.25 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 1.0 | 0.35 |
| Bromodichloromethane | ND | | ug/kg | 1.0 | 0.31 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.21 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.23 |
| Bromoform | ND | | ug/kg | 4.0 | 0.24 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 1.0 | 0.30 |
| Benzene | ND | | ug/kg | 1.0 | 0.19 |
| Toluene | ND | | ug/kg | 1.5 | 0.20 |
| Ethylbenzene | ND | | ug/kg | 1.0 | 0.17 |
| Chloromethane | ND | | ug/kg | 5.0 | 0.44 |
| Bromomethane | ND | | ug/kg | 2.0 | 0.34 |
| Vinyl chloride | ND | | ug/kg | 2.0 | 0.32 |
| Chloroethane | ND | | ug/kg | 2.0 | 0.32 |
| 1,1-Dichloroethene | ND | | ug/kg | 1.0 | 0.37 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.5 | 0.24 |
| Trichloroethene | ND | | ug/kg | 1.0 | 0.30 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.22 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 08:53
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-07 Batch: WG1013797-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 |
| Methyl tert butyl ether | ND | | ug/kg | 2.0 | 0.15 |
| p/m-Xylene | ND | | ug/kg | 2.0 | 0.35 |
| o-Xylene | ND | | ug/kg | 2.0 | 0.34 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 1.0 | 0.34 |
| Styrene | ND | | ug/kg | 2.0 | 0.40 |
| Dichlorodifluoromethane | ND | | ug/kg | 10 | 0.50 |
| Acetone | ND | | ug/kg | 10 | 2.3 |
| Carbon disulfide | ND | | ug/kg | 10 | 1.1 |
| 2-Butanone | ND | | ug/kg | 10 | 0.69 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 10 | 0.24 |
| 2-Hexanone | ND | | ug/kg | 10 | 0.67 |
| Bromochloromethane | ND | | ug/kg | 5.0 | 0.36 |
| 1,2-Dibromoethane | ND | | ug/kg | 4.0 | 0.20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 5.0 | 0.40 |
| Isopropylbenzene | ND | | ug/kg | 1.0 | 0.19 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.25 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.22 |
| Methyl Acetate | ND | | ug/kg | 20 | 0.46 |
| Cyclohexane | ND | | ug/kg | 20 | 0.43 |
| 1,4-Dioxane | ND | | ug/kg | 40 | 14. |
| Freon-113 | ND | | ug/kg | 20 | 0.51 |
| Methyl cyclohexane | ND | | ug/kg | 4.0 | 0.24 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 08:53
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-07 Batch: WG1013797-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 94 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 20:27
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-12 Batch: WG1013802-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 10 | 1.6 |
| 1,1-Dichloroethane | ND | | ug/kg | 1.5 | 0.27 |
| Chloroform | ND | | ug/kg | 1.5 | 0.37 |
| Carbon tetrachloride | ND | | ug/kg | 1.0 | 0.34 |
| 1,2-Dichloropropane | ND | | ug/kg | 3.5 | 0.23 |
| Dibromochloromethane | ND | | ug/kg | 1.0 | 0.18 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 1.5 | 0.31 |
| Tetrachloroethene | ND | | ug/kg | 1.0 | 0.30 |
| Chlorobenzene | ND | | ug/kg | 1.0 | 0.35 |
| Trichlorofluoromethane | ND | | ug/kg | 5.0 | 0.42 |
| 1,2-Dichloroethane | ND | | ug/kg | 1.0 | 0.25 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 1.0 | 0.35 |
| Bromodichloromethane | ND | | ug/kg | 1.0 | 0.31 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.21 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 1.0 | 0.23 |
| Bromoform | ND | | ug/kg | 4.0 | 0.24 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 1.0 | 0.30 |
| Benzene | ND | | ug/kg | 1.0 | 0.19 |
| Toluene | ND | | ug/kg | 1.5 | 0.20 |
| Ethylbenzene | ND | | ug/kg | 1.0 | 0.17 |
| Chloromethane | ND | | ug/kg | 5.0 | 0.44 |
| Bromomethane | ND | | ug/kg | 2.0 | 0.34 |
| Vinyl chloride | ND | | ug/kg | 2.0 | 0.32 |
| Chloroethane | ND | | ug/kg | 2.0 | 0.32 |
| 1,1-Dichloroethene | ND | | ug/kg | 1.0 | 0.37 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 1.5 | 0.24 |
| Trichloroethene | ND | | ug/kg | 1.0 | 0.30 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.22 |

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362
**Lab Number:** L1719393
**Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 20:27
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-12 Batch: WG1013802-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 5.0 | 0.18 |
| Methyl tert butyl ether | ND | | ug/kg | 2.0 | 0.15 |
| p/m-Xylene | ND | | ug/kg | 2.0 | 0.35 |
| o-Xylene | ND | | ug/kg | 2.0 | 0.34 |
| cis-1,2-Dichloroethene | ND | | ug/kg | 1.0 | 0.34 |
| Styrene | ND | | ug/kg | 2.0 | 0.40 |
| Dichlorodifluoromethane | ND | | ug/kg | 10 | 0.50 |
| Acetone | ND | | ug/kg | 10 | 2.3 |
| Carbon disulfide | ND | | ug/kg | 10 | 1.1 |
| 2-Butanone | ND | | ug/kg | 10 | 0.69 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 10 | 0.24 |
| 2-Hexanone | ND | | ug/kg | 10 | 0.67 |
| Bromochloromethane | ND | | ug/kg | 5.0 | 0.36 |
| 1,2-Dibromoethane | ND | | ug/kg | 4.0 | 0.20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 5.0 | 0.40 |
| Isopropylbenzene | ND | | ug/kg | 1.0 | 0.19 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.25 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 5.0 | 0.22 |
| Methyl Acetate | ND | | ug/kg | 20 | 0.46 |
| Cyclohexane | ND | | ug/kg | 20 | 0.43 |
| 1,4-Dioxane | ND | | ug/kg | 40 | 14. |
| Freon-113 | ND | | ug/kg | 20 | 0.51 |
| Methyl cyclohexane | ND | | ug/kg | 4.0 | 0.24 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/17 20:27
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 10-12 Batch: WG1013802-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/16/17 08:49
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1013934-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 500 | 82. |
| 1,1-Dichloroethane | ND | | ug/kg | 75 | 14. |
| Chloroform | ND | | ug/kg | 75 | 18. |
| Carbon tetrachloride | ND | | ug/kg | 50 | 17. |
| 1,2-Dichloropropane | ND | | ug/kg | 180 | 11. |
| Dibromochloromethane | ND | | ug/kg | 50 | 8.8 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 75 | 16. |
| Tetrachloroethene | ND | | ug/kg | 50 | 15. |
| Chlorobenzene | ND | | ug/kg | 50 | 17. |
| Trichlorofluoromethane | ND | | ug/kg | 250 | 21. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 12. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 50 | 18. |
| Bromodichloromethane | ND | | ug/kg | 50 | 15. |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 10. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 50 | 12. |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 50 | 10. |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 50 | 15. |
| Benzene | ND | | ug/kg | 50 | 9.6 |
| Toluene | ND | | ug/kg | 75 | 9.8 |
| Ethylbenzene | ND | | ug/kg | 50 | 8.5 |
| Chloromethane | ND | | ug/kg | 250 | 22. |
| Bromomethane | ND | | ug/kg | 100 | 17. |
| Vinyl chloride | ND | | ug/kg | 100 | 16. |
| Chloroethane | ND | | ug/kg | 100 | 16. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 19. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 12. |
| Trichloroethene | ND | | ug/kg | 50 | 15. |
| 1,2-Dichlorobenzene | ND | | ug/kg | 250 | 9.1 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/16/17 08:49
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1013934-5 | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 250 | 11. |
| 1,4-Dichlorobenzene | ND | | ug/kg | 250 | 9.1 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 7.6 |
| p/m-Xylene | ND | | ug/kg | 100 | 18. |
| o-Xylene | ND | | ug/kg | 100 | 17. |
| Xylenes, Total | ND | | ug/kg | 100 | 17. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 17. |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 50 | 12. |
| Styrene | ND | | ug/kg | 100 | 20. |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 25. |
| Acetone | ND | | ug/kg | 500 | 110 |
| Carbon disulfide | ND | | ug/kg | 500 | 55. |
| 2-Butanone | ND | | ug/kg | 500 | 34. |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 12. |
| 2-Hexanone | ND | | ug/kg | 500 | 33. |
| Bromochloromethane | ND | | ug/kg | 250 | 18. |
| 1,2-Dibromoethane | ND | | ug/kg | 200 | 10. |
| n-Butylbenzene | ND | | ug/kg | 50 | 11. |
| sec-Butylbenzene | ND | | ug/kg | 50 | 11. |
| tert-Butylbenzene | ND | | ug/kg | 250 | 12. |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 250 | 20. |
| Isopropylbenzene | ND | | ug/kg | 50 | 9.7 |
| p-Isopropyltoluene | ND | | ug/kg | 50 | 10. |
| Naphthalene | ND | | ug/kg | 250 | 6.9 |
| n-Propylbenzene | ND | | ug/kg | 50 | 11. |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 250 | 12. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 250 | 11. |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 250 | 8.0 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 250 | 9.3 |

**Project Name:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/16/17 08:49
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1013934-5 | | | | | |
| Methyl Acetate | ND | | ug/kg | 1000 | 23. |
| Cyclohexane | ND | | ug/kg | 1000 | 22. |
| 1,4-Dioxane | ND | | ug/kg | 2000 | 720 |
| Freon-113 | ND | | ug/kg | 1000 | 26. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 12. |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 94 | | 70-130 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-07 Batch: WG1013797-3 WG1013797-4 | | | | | | | | |
| Methylene chloride | 95 | | 92 | | 70-130 | 3 | | 30 |
| 1,1-Dichloroethane | 99 | | 98 | | 70-130 | 1 | | 30 |
| Chloroform | 98 | | 96 | | 70-130 | 2 | | 30 |
| Carbon tetrachloride | 100 | | 98 | | 70-130 | 2 | | 30 |
| 1,2-Dichloropropane | 100 | | 99 | | 70-130 | 1 | | 30 |
| Dibromochloromethane | 87 | | 88 | | 70-130 | 1 | | 30 |
| 1,1,2-Trichloroethane | 90 | | 92 | | 70-130 | 2 | | 30 |
| Tetrachloroethene | 100 | | 96 | | 70-130 | 4 | | 30 |
| Chlorobenzene | 93 | | 92 | | 70-130 | 1 | | 30 |
| Trichlorofluoromethane | 96 | | 95 | | 70-139 | 1 | | 30 |
| 1,2-Dichloroethane | 88 | | 88 | | 70-130 | 0 | | 30 |
| 1,1,1-Trichloroethane | 103 | | 99 | | 70-130 | 4 | | 30 |
| Bromodichloromethane | 95 | | 93 | | 70-130 | 2 | | 30 |
| trans-1,3-Dichloropropene | 91 | | 92 | | 70-130 | 1 | | 30 |
| cis-1,3-Dichloropropene | 99 | | 98 | | 70-130 | 1 | | 30 |
| Bromoform | 88 | | 88 | | 70-130 | 0 | | 30 |
| 1,1,2,2-Tetrachloroethane | 84 | | 87 | | 70-130 | 4 | | 30 |
| Benzene | 102 | | 100 | | 70-130 | 2 | | 30 |
| Toluene | 97 | | 95 | | 70-130 | 2 | | 30 |
| Ethylbenzene | 97 | | 94 | | 70-130 | 3 | | 30 |
| Chloromethane | 87 | | 86 | | 52-130 | 1 | | 30 |
| Bromomethane | 103 | | 96 | | 57-147 | 7 | | 30 |
| Vinyl chloride | 84 | | 85 | | 67-130 | 1 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-07 Batch: WG1013797-3 WG1013797-4 | | | | | | | | |
| Chloroethane | 87 | | 85 | | 50-151 | 2 | | 30 |
| 1,1-Dichloroethene | 101 | | 98 | | 65-135 | 3 | | 30 |
| trans-1,2-Dichloroethene | 100 | | 99 | | 70-130 | 1 | | 30 |
| Trichloroethene | 101 | | 99 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 89 | | 88 | | 70-130 | 1 | | 30 |
| 1,3-Dichlorobenzene | 92 | | 90 | | 70-130 | 2 | | 30 |
| 1,4-Dichlorobenzene | 89 | | 88 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 95 | | 95 | | 66-130 | 0 | | 30 |
| p/m-Xylene | 100 | | 97 | | 70-130 | 3 | | 30 |
| o-Xylene | 94 | | 92 | | 70-130 | 2 | | 30 |
| cis-1,2-Dichloroethene | 98 | | 98 | | 70-130 | 0 | | 30 |
| Styrene | 93 | | 92 | | 70-130 | 1 | | 30 |
| Dichlorodifluoromethane | 79 | | 76 | | 30-146 | 4 | | 30 |
| Acetone | 86 | | 86 | | 54-140 | 0 | | 30 |
| Carbon disulfide | 81 | | 78 | | 59-130 | 4 | | 30 |
| 2-Butanone | 94 | | 98 | | 70-130 | 4 | | 30 |
| 4-Methyl-2-pentanone | 88 | | 89 | | 70-130 | 1 | | 30 |
| 2-Hexanone | 80 | | 80 | | 70-130 | 0 | | 30 |
| Bromochloromethane | 98 | | 97 | | 70-130 | 1 | | 30 |
| 1,2-Dibromoethane | 91 | | 90 | | 70-130 | 1 | | 30 |
| 1,2-Dibromo-3-chloropropane | 81 | | 82 | | 68-130 | 1 | | 30 |
| Isopropylbenzene | 95 | | 93 | | 70-130 | 2 | | 30 |
| 1,2,3-Trichlorobenzene | 89 | | 87 | | 70-130 | 2 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-07 Batch: WG1013797-3 WG1013797-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 92 | | 88 | | 70-130 | 4 | | 30 |
| Methyl Acetate | 96 | | 96 | | 51-146 | 0 | | 30 |
| Cyclohexane | 110 | | 106 | | 59-142 | 4 | | 30 |
| 1,4-Dioxane | 96 | | 94 | | 65-136 | 2 | | 30 |
| Freon-113 | 106 | | 104 | | 50-139 | 2 | | 30 |
| Methyl cyclohexane | 110 | | 107 | | 70-130 | 3 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | | 89 | | 70-130 |
| Toluene-d8 | 96 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 99 | | 70-130 |
| Dibromofluoromethane | 96 | | 97 | | 70-130 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-12 Batch: WG1013802-3 WG1013802-4 | | | | | | | | |
| Methylene chloride | 96 | | 93 | | 70-130 | 3 | | 30 |
| 1,1-Dichloroethane | 102 | | 98 | | 70-130 | 4 | | 30 |
| Chloroform | 103 | | 99 | | 70-130 | 4 | | 30 |
| Carbon tetrachloride | 103 | | 99 | | 70-130 | 4 | | 30 |
| 1,2-Dichloropropane | 100 | | 97 | | 70-130 | 3 | | 30 |
| Dibromochloromethane | 93 | | 92 | | 70-130 | 1 | | 30 |
| 1,1,2-Trichloroethane | 93 | | 91 | | 70-130 | 2 | | 30 |
| Tetrachloroethene | 92 | | 87 | | 70-130 | 6 | | 30 |
| Chlorobenzene | 90 | | 88 | | 70-130 | 2 | | 30 |
| Trichlorofluoromethane | 101 | | 98 | | 70-139 | 3 | | 30 |
| 1,2-Dichloroethane | 103 | | 97 | | 70-130 | 6 | | 30 |
| 1,1,1-Trichloroethane | 105 | | 101 | | 70-130 | 4 | | 30 |
| Bromodichloromethane | 102 | | 98 | | 70-130 | 4 | | 30 |
| trans-1,3-Dichloropropene | 95 | | 92 | | 70-130 | 3 | | 30 |
| cis-1,3-Dichloropropene | 99 | | 96 | | 70-130 | 3 | | 30 |
| Bromoform | 91 | | 92 | | 70-130 | 1 | | 30 |
| 1,1,2,2-Tetrachloroethane | 86 | | 87 | | 70-130 | 1 | | 30 |
| Benzene | 100 | | 95 | | 70-130 | 5 | | 30 |
| Toluene | 92 | | 88 | | 70-130 | 4 | | 30 |
| Ethylbenzene | 92 | | 88 | | 70-130 | 4 | | 30 |
| Chloromethane | 92 | | 87 | | 52-130 | 6 | | 30 |
| Bromomethane | 99 | | 93 | | 57-147 | 6 | | 30 |
| Vinyl chloride | 83 | | 79 | | 67-130 | 5 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-12 Batch: WG1013802-3 WG1013802-4 | | | | | | | | |
| Chloroethane | 90 | | 85 | | 50-151 | 6 | | 30 |
| 1,1-Dichloroethene | 96 | | 92 | | 65-135 | 4 | | 30 |
| trans-1,2-Dichloroethene | 97 | | 92 | | 70-130 | 5 | | 30 |
| Trichloroethene | 97 | | 95 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 87 | | 85 | | 70-130 | 2 | | 30 |
| 1,3-Dichlorobenzene | 88 | | 86 | | 70-130 | 2 | | 30 |
| 1,4-Dichlorobenzene | 86 | | 84 | | 70-130 | 2 | | 30 |
| Methyl tert butyl ether | 99 | | 96 | | 66-130 | 3 | | 30 |
| p/m-Xylene | 94 | | 90 | | 70-130 | 4 | | 30 |
| o-Xylene | 90 | | 87 | | 70-130 | 3 | | 30 |
| cis-1,2-Dichloroethene | 97 | | 94 | | 70-130 | 3 | | 30 |
| Styrene | 94 | | 90 | | 70-130 | 4 | | 30 |
| Dichlorodifluoromethane | 76 | | 72 | | 30-146 | 5 | | 30 |
| Acetone | 102 | | 95 | | 54-140 | 7 | | 30 |
| Carbon disulfide | 91 | | 92 | | 59-130 | 1 | | 30 |
| 2-Butanone | 105 | | 103 | | 70-130 | 2 | | 30 |
| 4-Methyl-2-pentanone | 93 | | 88 | | 70-130 | 6 | | 30 |
| 2-Hexanone | 84 | | 83 | | 70-130 | 1 | | 30 |
| Bromochloromethane | 100 | | 96 | | 70-130 | 4 | | 30 |
| 1,2-Dibromoethane | 93 | | 89 | | 70-130 | 4 | | 30 |
| 1,2-Dibromo-3-chloropropane | 82 | | 82 | | 68-130 | 0 | | 30 |
| Isopropylbenzene | 86 | | 84 | | 70-130 | 2 | | 30 |
| 1,2,3-Trichlorobenzene | 85 | | 83 | | 70-130 | 2 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 10-12 Batch: WG1013802-3 WG1013802-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 83 | | 82 | | 70-130 | 1 | | 30 |
| Methyl Acetate | 110 | | 107 | | 51-146 | 3 | | 30 |
| Cyclohexane | 103 | | 98 | | 59-142 | 5 | | 30 |
| 1,4-Dioxane | 98 | | 93 | | 65-136 | 5 | | 30 |
| Freon-113 | 102 | | 97 | | 50-139 | 5 | | 30 |
| Methyl cyclohexane | 100 | | 93 | | 70-130 | 7 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | | 103 | | 70-130 |
| Toluene-d8 | 96 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 98 | | 70-130 |
| Dibromofluoromethane | 102 | | 101 | | 70-130 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1013934-3 WG1013934-4 | | | | | | | | |
| Methylene chloride | 91 | | 91 | | 70-130 | 0 | | 30 |
| 1,1-Dichloroethane | 93 | | 94 | | 70-130 | 1 | | 30 |
| Chloroform | 94 | | 93 | | 70-130 | 1 | | 30 |
| Carbon tetrachloride | 95 | | 95 | | 70-130 | 0 | | 30 |
| 1,2-Dichloropropane | 96 | | 96 | | 70-130 | 0 | | 30 |
| Dibromochloromethane | 86 | | 87 | | 70-130 | 1 | | 30 |
| 1,1,2-Trichloroethane | 88 | | 89 | | 70-130 | 1 | | 30 |
| Tetrachloroethene | 91 | | 89 | | 70-130 | 2 | | 30 |
| Chlorobenzene | 87 | | 86 | | 70-130 | 1 | | 30 |
| Trichlorofluoromethane | 92 | | 90 | | 70-139 | 2 | | 30 |
| 1,2-Dichloroethane | 88 | | 89 | | 70-130 | 1 | | 30 |
| 1,1,1-Trichloroethane | 95 | | 95 | | 70-130 | 0 | | 30 |
| Bromodichloromethane | 91 | | 92 | | 70-130 | 1 | | 30 |
| trans-1,3-Dichloropropene | 88 | | 89 | | 70-130 | 1 | | 30 |
| cis-1,3-Dichloropropene | 96 | | 96 | | 70-130 | 0 | | 30 |
| Bromoform | 85 | | 89 | | 70-130 | 5 | | 30 |
| 1,1,2,2-Tetrachloroethane | 82 | | 85 | | 70-130 | 4 | | 30 |
| Benzene | 95 | | 95 | | 70-130 | 0 | | 30 |
| Toluene | 87 | | 88 | | 70-130 | 1 | | 30 |
| Ethylbenzene | 88 | | 87 | | 70-130 | 1 | | 30 |
| Chloromethane | 80 | | 81 | | 52-130 | 1 | | 30 |
| Bromomethane | 91 | | 88 | | 57-147 | 3 | | 30 |
| Vinyl chloride | 78 | | 78 | | 67-130 | 0 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1013934-3 WG1013934-4 | | | | | | | | |
| Chloroethane | 81 | | 81 | | 50-151 | 0 | | 30 |
| 1,1-Dichloroethene | 92 | | 92 | | 65-135 | 0 | | 30 |
| trans-1,2-Dichloroethene | 93 | | 93 | | 70-130 | 0 | | 30 |
| Trichloroethene | 94 | | 94 | | 70-130 | 0 | | 30 |
| 1,2-Dichlorobenzene | 84 | | 85 | | 70-130 | 1 | | 30 |
| 1,3-Dichlorobenzene | 85 | | 87 | | 70-130 | 2 | | 30 |
| 1,4-Dichlorobenzene | 83 | | 85 | | 70-130 | 2 | | 30 |
| Methyl tert butyl ether | 93 | | 94 | | 66-130 | 1 | | 30 |
| p/m-Xylene | 90 | | 88 | | 70-130 | 2 | | 30 |
| o-Xylene | 86 | | 86 | | 70-130 | 0 | | 30 |
| cis-1,2-Dichloroethene | 93 | | 92 | | 70-130 | 1 | | 30 |
| Styrene | 88 | | 87 | | 70-130 | 1 | | 30 |
| Dichlorodifluoromethane | 71 | | 70 | | 30-146 | 1 | | 30 |
| Acetone | 86 | | 88 | | 54-140 | 2 | | 30 |
| Carbon disulfide | 73 | | 73 | | 59-130 | 0 | | 30 |
| 2-Butanone | 94 | | 95 | | 70-130 | 1 | | 30 |
| 4-Methyl-2-pentanone | 85 | | 87 | | 70-130 | 2 | | 30 |
| 2-Hexanone | 79 | | 78 | | 70-130 | 1 | | 30 |
| Bromochloromethane | 96 | | 95 | | 70-130 | 1 | | 30 |
| 1,2-Dibromoethane | 88 | | 89 | | 70-130 | 1 | | 30 |
| n-Butylbenzene | 86 | | 88 | | 70-130 | 2 | | 30 |
| sec-Butylbenzene | 87 | | 88 | | 70-130 | 1 | | 30 |
| tert-Butylbenzene | 86 | | 87 | | 70-130 | 1 | | 30 |

# Lab Control Sample Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1013934-3 WG1013934-4 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 80 | | 79 | | 68-130 | 1 | | 30 |
| Isopropylbenzene | 85 | | 87 | | 70-130 | 2 | | 30 |
| p-Isopropyltoluene | 86 | | 88 | | 70-130 | 2 | | 30 |
| Naphthalene | 80 | | 83 | | 70-130 | 4 | | 30 |
| n-Propylbenzene | 84 | | 87 | | 70-130 | 4 | | 30 |
| 1,2,3-Trichlorobenzene | 85 | | 87 | | 70-130 | 2 | | 30 |
| 1,2,4-Trichlorobenzene | 84 | | 85 | | 70-130 | 1 | | 30 |
| 1,3,5-Trimethylbenzene | 87 | | 88 | | 70-130 | 1 | | 30 |
| 1,2,4-Trimethylbenzene | 86 | | 88 | | 70-130 | 2 | | 30 |
| Methyl Acetate | 94 | | 98 | | 51-146 | 4 | | 30 |
| Cyclohexane | 99 | | 99 | | 59-142 | 0 | | 30 |
| 1,4-Dioxane | 92 | | 91 | | 65-136 | 1 | | 30 |
| Freon-113 | 97 | | 96 | | 50-139 | 1 | | 30 |
| Methyl cyclohexane | 99 | | 99 | | 70-130 | 0 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 91 | | 70-130 |
| Toluene-d8 | 95 | | 94 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 100 | | 70-130 |
| Dibromofluoromethane | 97 | | 96 | | 70-130 |

# METALS

| | | | |
|---|---|---|---|
| Project Name: | 11075 WALDEN AVENUE | Lab Number: | L1719393 |
| Project Number: | 2171362 | Report Date: | 06/16/17 |

SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1719393-01 | Date Collected: | 06/08/17 09:00 |
| Client ID: | SB-1D0.31 | Date Received: | 06/09/17 |
| Sample Location: | ALDEN, NY 14004 | Field Prep: | Not Specified |
| Matrix: | Soil | | |
| Percent Solids: | 91% | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Total | 2.40 | | mg/kg | 0.430 | 0.089 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Barium, Total | 22.6 | | mg/kg | 0.430 | 0.075 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Cadmium, Total | 0.107 | J | mg/kg | 0.430 | 0.042 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Chromium, Total | 7.37 | | mg/kg | 0.430 | 0.041 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Lead, Total | 8.20 | | mg/kg | 2.15 | 0.115 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Mercury, Total | ND | | mg/kg | 0.07 | 0.02 | 1 | 06/13/17 08:20 | 06/13/17 10:50 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.400 | J | mg/kg | 0.859 | 0.111 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |
| Silver, Total | ND | | mg/kg | 0.430 | 0.122 | 1 | 06/12/17 20:08 | 06/16/17 02:12 | EPA 3050B | 1,6010C | AB |

| | | | |
|---|---|---|---|
| Project Name: | 11075 WALDEN AVENUE | Lab Number: | L1719393 |
| Project Number: | 2171362 | Report Date: | 06/16/17 |

SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1719393-02 | Date Collected: | 06/08/17 10:15 |
| Client ID: | SB-2D12 | Date Received: | 06/09/17 |
| Sample Location: | ALDEN, NY 14004 | Field Prep: | Not Specified |
| Matrix: | Soil | | |
| Percent Solids: | 90% | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Total | 4.87 | | mg/kg | 0.432 | 0.090 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Barium, Total | 104 | | mg/kg | 0.432 | 0.075 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Cadmium, Total | 0.307 | J | mg/kg | 0.432 | 0.042 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Chromium, Total | 8.84 | | mg/kg | 0.432 | 0.042 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Lead, Total | 20.4 | | mg/kg | 2.16 | 0.116 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Mercury, Total | 0.04 | J | mg/kg | 0.07 | 0.02 | 1 | 06/13/17 08:20 | 06/13/17 10:52 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.627 | J | mg/kg | 0.864 | 0.112 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |
| Silver, Total | ND | | mg/kg | 0.432 | 0.122 | 1 | 06/12/17 20:08 | 06/16/17 02:17 | EPA 3050B | 1,6010C | AB |

| | | | |
|---|---|---|---|
| Project Name: | 11075 WALDEN AVENUE | Lab Number: | L1719393 |
| Project Number: | 2171362 | Report Date: | 06/16/17 |

SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1719393-08 | Date Collected: | 06/09/17 08:15 |
| Client ID: | SB-11D12 | Date Received: | 06/09/17 |
| Sample Location: | ALDEN, NY 14004 | Field Prep: | Not Specified |
| Matrix: | Soil | | |
| Percent Solids: | 93% | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Total | 2.06 | | mg/kg | 0.420 | 0.088 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Barium, Total | 11.3 | | mg/kg | 0.420 | 0.073 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Cadmium, Total | 0.715 | | mg/kg | 0.420 | 0.041 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Chromium, Total | 9.38 | | mg/kg | 0.420 | 0.040 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Lead, Total | 20.3 | | mg/kg | 2.10 | 0.113 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Mercury, Total | ND | | mg/kg | 0.07 | 0.01 | 1 | 06/13/17 08:20 | 06/13/17 10:54 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.198 | J | mg/kg | 0.841 | 0.108 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |
| Silver, Total | ND | | mg/kg | 0.420 | 0.119 | 1 | 06/12/17 20:08 | 06/16/17 02:21 | EPA 3050B | 1,6010C | AB |

| | | | |
|---|---|---|---|
| Project Name: | 11075 WALDEN AVENUE | Lab Number: | L1719393 |
| Project Number: | 2171362 | Report Date: | 06/16/17 |

SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Lab ID: | L1719393-09 | Date Collected: | 06/09/17 08:45 |
| Client ID: | SB-12D0.61 | Date Received: | 06/09/17 |
| Sample Location: | ALDEN, NY 14004 | Field Prep: | Not Specified |
| Matrix: | Soil | | |
| Percent Solids: | 83% | | |

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Total | 4.03 | | mg/kg | 0.464 | 0.097 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Barium, Total | 38.1 | | mg/kg | 0.464 | 0.081 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Cadmium, Total | 0.158 | J | mg/kg | 0.464 | 0.046 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Chromium, Total | 15.3 | | mg/kg | 0.464 | 0.045 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Lead, Total | 18.6 | | mg/kg | 2.32 | 0.124 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Mercury, Total | 0.02 | J | mg/kg | 0.08 | 0.02 | 1 | 06/13/17 08:20 | 06/13/17 10:56 | EPA 7471B | 1,7471B | BV |
| Selenium, Total | 0.869 | J | mg/kg | 0.929 | 0.120 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |
| Silver, Total | ND | | mg/kg | 0.464 | 0.131 | 1 | 06/12/17 20:08 | 06/16/17 02:25 | EPA 3050B | 1,6010C | AB |

Project Name: 11075 WALDEN AVENUE
Lab Number: L1719393
Project Number: 2171362
Report Date: 06/16/17

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01-02,08-09 Batch: WG1012104-1 | | | | | | | | | | |
| Arsenic, Total | ND | | mg/kg | 0.400 | 0.083 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Barium, Total | 0.128 | J | mg/kg | 0.400 | 0.070 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Cadmium, Total | ND | | mg/kg | 0.400 | 0.039 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Chromium, Total | ND | | mg/kg | 0.400 | 0.038 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Lead, Total | ND | | mg/kg | 2.00 | 0.107 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Selenium, Total | ND | | mg/kg | 0.800 | 0.103 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |
| Silver, Total | ND | | mg/kg | 0.400 | 0.113 | 1 | 06/12/17 20:08 | 06/16/17 01:07 | 1,6010C | AB |

Prep Information

Digestion Method: EPA 3050B

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab for sample(s): 01-02,08-09 Batch: WG1012410-1 | | | | | | | | | | |
| Mercury, Total | ND | | mg/kg | 0.08 | 0.02 | 1 | 06/13/17 08:20 | 06/13/17 10:20 | 1,7471B | BV |

Prep Information

Digestion Method: EPA 7471B

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719393
**Report Date:** 06/16/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-02,08-09 Batch: WG1012104-2 SRM Lot Number: D093-540 | | | | | | | | |
| Arsenic, Total | 105 | | - | | 70-130 | - | | |
| Barium, Total | 91 | | - | | 83-117 | - | | |
| Cadmium, Total | 93 | | - | | 83-117 | - | | |
| Chromium, Total | 94 | | - | | 80-120 | - | | |
| Lead, Total | 95 | | - | | 82-117 | - | | |
| Selenium, Total | 93 | | - | | 78-122 | - | | |
| Silver, Total | 97 | | - | | 76-124 | - | | |
| Total Metals - Mansfield Lab Associated sample(s): 01-02,08-09 Batch: WG1012410-2 SRM Lot Number: D093-540 | | | | | | | | |
| Mercury, Total | 104 | | - | | 72-128 | - | | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719393
**Report Date:** 06/16/17

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-02,08-09 QC Batch ID: WG1012104-3 QC Sample: L1719284-01 Client ID: MS Sample | | | | | | | | | | | | |
| Arsenic, Total | 3.17 | 10.1 | 13.8 | 105 | | - | - | | 75-125 | - | | 20 |
| Barium, Total | 85.4 | 169 | 269 | 109 | | - | - | | 75-125 | - | | 20 |
| Cadmium, Total | ND | 4.31 | 3.78 | 88 | | - | - | | 75-125 | - | | 20 |
| Chromium, Total | 5.86 | 16.9 | 25.3 | 115 | | - | - | | 75-125 | - | | 20 |
| Lead, Total | 52.4 | 43.1 | 156 | **240** | Q | - | - | | 75-125 | - | | 20 |
| Selenium, Total | ND | 10.1 | 10.5 | 104 | | - | - | | 75-125 | - | | 20 |
| Silver, Total | ND | 25.3 | 27.1 | 107 | | - | - | | 75-125 | - | | 20 |
| Total Metals - Mansfield Lab Associated sample(s): 01-02,08-09 QC Batch ID: WG1012410-3 WG1012410-4 QC Sample: L1719497-04 Client ID: MS Sample | | | | | | | | | | | | |
| Mercury, Total | ND | 0.138 | 0.17 | **124** | Q | 0.17 | **121** | Q | 80-120 | 0 | | 20 |

# Lab Duplicate Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| Total Metals - Mansfield Lab Associated sample(s): 01-02,08-09 QC Batch ID: WG1012104-4 QC Sample: L1719284-01 Client ID: DUP Sample | | | | | | |
| Arsenic, Total | 3.17 | 4.57 | mg/kg | 36 | Q | 20 |
| Barium, Total | 85.4 | 88.3 | mg/kg | 3 | | 20 |
| Cadmium, Total | ND | ND | mg/kg | NC | | 20 |
| Chromium, Total | 5.86 | 7.42 | mg/kg | 23 | Q | 20 |
| Lead, Total | 52.4 | 60.3 | mg/kg | 14 | | 20 |
| Selenium, Total | ND | 0.313J | mg/kg | NC | | 20 |
| Silver, Total | ND | ND | mg/kg | NC | | 20 |

# INORGANICS
# &
# MISCELLANEOUS

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-01
Client ID: SB-1D0.31
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 09:00
Date Received: 06/09/17
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 | 90.7 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-02
Client ID: SB-2D12
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 10:15
Date Received: 06/09/17
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 | 89.8 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-03
Client ID: SB-3D910
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 11:15
Date Received: 06/09/17
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 | 89.1 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-04
Client ID: SB-4D56
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 12:15
Date Received: 06/09/17
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 | 88.7 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-05
Client ID: SB-6D1011
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 15:00
Date Received: 06/09/17
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 | 89.9 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-06
Client ID: SB-7D45
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 17:00
Date Received: 06/09/17
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 | 88.6 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

## SAMPLE RESULTS

Lab ID: L1719393-07
Client ID: SB-8D23
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/08/17 17:30
Date Received: 06/09/17
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 | 83.1 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-08
Client ID: SB-11D12
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/09/17 08:15
Date Received: 06/09/17
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 | 92.6 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-09
Client ID: SB-12D0.61
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/09/17 08:45
Date Received: 06/09/17
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 | 83.3 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-10
Client ID: SB-13AD23
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/09/17 11:00
Date Received: 06/09/17
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 | 83.9 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-11
Client ID: SB-14D89
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/09/17 12:30
Date Received: 06/09/17
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 | 87.3 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

SAMPLE RESULTS

Lab ID: L1719393-12
Client ID: SB-16D12
Sample Location: ALDEN, NY 14004
Matrix: Soil

Date Collected: 06/09/17 13:50
Date Received: 06/09/17
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 | 87.2 | | % | 0.100 | NA | 1 | - | 06/10/17 13:32 | 121,2540G | RI |

# Lab Duplicate Analysis
Batch Quality Control

Project Name: 11075 WALDEN AVENUE
Project Number: 2171362

Lab Number: L1719393
Report Date: 06/16/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1011890-1 QC Sample: L1719393-02 Client ID: SB-2D12 | | | | | | |
| Solids, Total | 89.8 | 89.1 | % | 1 | | 20 |

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719393
**Report Date:** 06/16/17

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1719393-01A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-01B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-01C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-01D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-01E | Metals Only-Glass 60mL/2oz unpreserved | A | NA | | 2.6 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L1719393-02A | Glass 60mL/2oz unpreserved | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-02B | Glass 60ml unpreserved split | A | NA | | 2.6 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L1719393-03A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-03B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-03C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-03D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-04A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-04B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-04C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-04D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-05A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-05B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-05C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-05D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-06A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-06B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** 11075 WALDEN AVENUE
**Project Number:** 2171362

**Lab Number:** L1719393
**Report Date:** 06/16/17

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1719393-06C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-06D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-07A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14),NYTCL-8260H-R2(14) |
| L1719393-07B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14),NYTCL-8260H-R2(14) |
| L1719393-07C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14),NYTCL-8260H-R2(14) |
| L1719393-07D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-08A | Glass 60mL/2oz unpreserved | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-08B | Glass 60ml unpreserved split | A | NA | | 2.6 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L1719393-09A | Glass 60mL/2oz unpreserved | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-09B | Glass 60ml unpreserved split | A | NA | | 2.6 | Y | Absent | | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L1719393-10A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-10B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-10C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-10D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-11A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-11B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-11C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-11D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |
| L1719393-12A | Vial MeOH preserved | A | NA | | 2.6 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1719393-12B | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-12C | Vial water preserved | A | NA | | 2.6 | Y | Absent | 10-JUN-17 06:54 | NYTCL-8260HLW-R2(14) |
| L1719393-12D | Plastic 2oz unpreserved for TS | A | NA | | 2.6 | Y | Absent | | TS(7) |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719393 |
| **Project Number:** | 2171362 | **Report Date:** | 06/16/17 |

## GLOSSARY

### *Acronyms*

| | |
|---|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

### *Footnotes*

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

### *Terms*

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

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

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

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

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

### *Data Qualifiers*

| | |
|---|---|
| A | - Spectra identified as "Aldol Condensation Product". |
| B | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related |

*Report Format:* DU Report with 'J' Qualifiers

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVENUE | **Lab Number:** | L1719393 |
| **Project Number:** | 2171362 | **Report Date:** | 06/16/17 |

***Data Qualifiers***

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. 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:** 11075 WALDEN AVENUE **Lab Number:** L1719393

**Project Number:** 2171362 **Report Date:** 06/16/17

## REFERENCES


1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.


## LIMITATION OF LIABILITIES

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

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

# 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.

# 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: 6/10/17

ALPHA Job #: L1719393

## Client Information

Client: LaBella Associates
Address: 300 Pearl Street, Suite 320
Buffalo, NY 14202
Phone: 716-710-2088
Fax: 716-551-6281
Email: jdombrowski@labella.com

## Project Information

Project Name: 11075 Walden Avenue
Project Location: Alden, NY 14004
Project # 2171362
(Use Project name as Project #) ☐
Project Manager: Adam Zebrowski
ALPHAQuote #:

## Turn-Around Time

Standard ☐ Due Date:
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)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOCs | RCRA Metals | Total Bottle | Sample Specific Comments |
|---|---|---|---|---|---|---|---|---|---|
| 19393-01 | SB-1D 0.3' | 6/8/17 | 900 | Soil | JLD | X | X | | |
| -02 | SB-2D 12 | 6/8/17 | 1015 | Soil | JLD | X | X | | |
| -03 | SB-3D 10 | 6/8/17 | 1115 | Soil | JLD | X | | | |
| -04 | SB-4D 5-6 | 6/8/17 | 1215 | Soil | JLD | X | | | |
| -05 | SB-6D 10-11 | 6/8/17 | 1500 | Soil | JLD | X | | | |
| -06 | SB-7D 4-5 | 6/8/17 | 1700 | Soil | JLD | X | | | |
| -07 | SB-8D 2-3 | 6/8/17 | 1730 | Soil | JLD | X | | | |
| -08 | SB-11D 12 | 6/9/17 | 815 | Soil | JLD | | X | | |
| -09 | SB-12D 0.6' | 6/9/17 | 845 | Soil | JLD | | X | | |
| -10 | SB-13AD 2-3 | 6/9/17 | 1100 | Soil | JLD | 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 |
|---|---|---|---|
| Jessica J. Dombrowski | 6/9/17 15 | JMA AAC | 6/09/17 16:05 |
| JMA AAC | 6/09/17 16:05 | J. Tehranney | 6/10/17 0825 |

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: 508-822-9288

**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: 6/10/17

ALPHA Job #: L1719393

## Client Information

Client: LaBella Associates
Address: 300 Pearl Street, Suite 120
Buffalo, NY 14202
Phone: 716-710-3028
Fax: 716-551-6281
Email: jdombrowski@labellapc.com

## Project Information

Project Name: 11075 Walden Avenue
Project Location: Alden, NY 14004
Project # 2171362
(Use Project name as Project #) ☐
Project Manager: Adam Zebrowski
ALPHAQuote #:

## Turn-Around Time

Standard ☐ Due Date:
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:

## ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOCs | RCRA Metals | Total Bottle |
|---|---|---|---|---|---|---|---|---|
| 19393-11 | SB-14D89 | 6/9/17 | 1230 | Soil | JLD | X | | |
| -12 | SB-16D12 | 6/9/17 | 1350 | Soil | JLD | X | | |

**Sample Filtration**
☐ Done
☐ Lab to do
**Preservation**
☐ Lab to do
*(Please Specify below)*

**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

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Container Type | | | | | | | | | | | | | |
| Preservative | | | | | | | | | | | | | |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| | 6/9/17 15 | JM PL AAL | 6/09/17 16:05 |
| JM PL AAL | 6/09/17 16:05 | | 6/10/17 0825 |

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)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-39611-1
Client Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Adam Zebrowski

Melissa Deyo

*Authorized for release by:*
*8/15/2017 2:27:10 PM*

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Case Narrative

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Job ID: 200-39611-1

### Laboratory: TestAmerica Burlington

**Narrative**

**Job Narrative**
**200-39611-1**

**Receipt**
The samples were received on 8/5/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

**Receipt Exceptions**
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): OD1 (200-39611-5). The Flow controller ID llists <3048>, while the COC and sample tag attached to the sample canister, lists <3408>.

**Air Toxics**
Method(s) TO-15: The laboratory control sample (LCS) for analytical batch 200-119484 recovered outside control limits for the following analytes: Carbon disulfide. These analytes were biased low in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Client Sample ID: SS1 — Lab Sample ID: 200-39611-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 23000 | | 1200 | 170 | ppb v/v | 5900 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 23000 | | 2400 | 170 | ppb v/v | 5900 | | TO-15 | Total/NA |
| Trichloroethene | 2500 | | 1200 | 54 | ppb v/v | 5900 | | TO-15 | Total/NA |
| Tetrachloroethene | 71000 | | 1200 | 58 | ppb v/v | 5900 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 91000 | | 4700 | 680 | ug/m3 | 5900 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 91000 | | 9400 | 680 | ug/m3 | 5900 | | TO-15 | Total/NA |
| Trichloroethene | 13000 | | 6300 | 290 | ug/m3 | 5900 | | TO-15 | Total/NA |
| Tetrachloroethene | 480000 | | 8000 | 390 | ug/m3 | 5900 | | TO-15 | Total/NA |

## Client Sample ID: ID1 — Lab Sample ID: 200-39611-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.48 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 2.8 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.53 | | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 20 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.23 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.051 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 6.4 | | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.38 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.078 | J * | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.13 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.55 | | 0.20 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 0.65 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.55 | | 0.20 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 0.55 | | 0.40 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.063 | J | 0.20 | 0.045 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.063 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.052 | J | 0.20 | 0.043 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.10 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.15 | J | 0.20 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.65 | | 0.20 | 0.0091 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.15 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.8 | | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.12 | J | 0.50 | 0.086 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.092 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.044 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.14 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.093 | J | 0.20 | 0.057 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.24 | | 0.20 | 0.063 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.4 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 9.9 | | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 49 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.3 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.39 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 15 | | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.94 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID1 (Continued) — Lab Sample ID: 200-39611-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | 0.24 | J * | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.47 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.9 | | 0.70 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.9 | | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 2.2 | | 0.79 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 2.2 | | 1.6 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.22 | J | 0.69 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.39 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.24 | J | 0.93 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.32 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.63 | J | 0.82 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.5 | | 1.1 | 0.049 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.55 | J | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 19 | | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.48 | J | 2.0 | 0.35 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.40 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.19 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.59 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.46 | J | 0.98 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 1.5 | | 1.2 | 0.38 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SS2 — Lab Sample ID: 200-39611-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Butane | 140 | J | 370 | 34 | ppb v/v | 736 | | TO-15 | Total/NA |
| Carbon disulfide | 57 | J * | 370 | 21 | ppb v/v | 736 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1700 | | 150 | 21 | ppb v/v | 736 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 1700 | | 290 | 21 | ppb v/v | 736 | | TO-15 | Total/NA |
| Trichloroethene | 1000 | | 150 | 6.7 | ppb v/v | 736 | | TO-15 | Total/NA |
| Toluene | 160 | | 150 | 26 | ppb v/v | 736 | | TO-15 | Total/NA |
| Tetrachloroethene | 7600 | | 150 | 7.2 | ppb v/v | 736 | | TO-15 | Total/NA |
| Ethylbenzene | 49 | J | 150 | 25 | ppb v/v | 736 | | TO-15 | Total/NA |
| m,p-Xylene | 120 | J | 370 | 57 | ppb v/v | 736 | | TO-15 | Total/NA |
| Xylene, o- | 51 | J | 150 | 29 | ppb v/v | 736 | | TO-15 | Total/NA |
| Xylene (total) | 170 | J | 520 | 29 | ppb v/v | 736 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Butane | 320 | J | 870 | 80 | ug/m3 | 736 | | TO-15 | Total/NA |
| Carbon disulfide | 180 | J * | 1100 | 64 | ug/m3 | 736 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 6700 | | 580 | 85 | ug/m3 | 736 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 6700 | | 1200 | 85 | ug/m3 | 736 | | TO-15 | Total/NA |
| Trichloroethene | 5600 | | 790 | 36 | ug/m3 | 736 | | TO-15 | Total/NA |
| Toluene | 620 | | 550 | 97 | ug/m3 | 736 | | TO-15 | Total/NA |
| Tetrachloroethene | 52000 | | 1000 | 49 | ug/m3 | 736 | | TO-15 | Total/NA |
| Ethylbenzene | 210 | J | 640 | 110 | ug/m3 | 736 | | TO-15 | Total/NA |
| m,p-Xylene | 520 | J | 1600 | 250 | ug/m3 | 736 | | TO-15 | Total/NA |
| Xylene, o- | 220 | J | 640 | 130 | ug/m3 | 736 | | TO-15 | Total/NA |
| Xylene (total) | 740 | J | 2200 | 130 | ug/m3 | 736 | | TO-15 | Total/NA |

## Client Sample ID: ID2 — Lab Sample ID: 200-39611-4

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID2 (Continued)

## Lab Sample ID: 200-39611-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.44 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 1.9 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.48 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 15 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.21 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.052 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 5.1 | | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.31 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.071 | J * | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.10 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.42 | | 0.20 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 0.38 | J | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.31 | | 0.20 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 0.31 | J | 0.40 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.049 | J | 0.20 | 0.045 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.062 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.082 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.12 | J | 0.20 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.57 | | 0.20 | 0.0091 | ppb v/v | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 0.88 | | 0.50 | 0.065 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.15 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 1.8 | | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.094 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.044 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.14 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.12 | J | 0.20 | 0.063 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.2 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 6.7 | | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.0 | J | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 36 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.2 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.40 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 12 | | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.77 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.22 | J * | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.36 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.5 | | 0.70 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.1 | J | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.2 | | 0.79 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 1.2 | J | 1.6 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.17 | J | 0.69 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.39 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.26 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.48 | J | 0.82 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.1 | | 1.1 | 0.049 | ug/m3 | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 3.6 | | 2.0 | 0.27 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.55 | J | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 12 | | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.41 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID2 (Continued) — Lab Sample ID: 200-39611-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Xylene, o- | 0.19 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.60 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.71 | J | 1.2 | 0.38 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: OD1 — Lab Sample ID: 200-39611-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.42 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 0.29 | J | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.56 | | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 0.47 | J | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.19 | J | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.047 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 5.2 | | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.26 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.10 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 0.60 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.062 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.073 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.13 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.021 | J | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.035 | J | 0.20 | 0.034 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.11 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.043 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.15 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Styrene | 0.043 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.1 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 1.0 | J | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.2 | | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 1.1 | J | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.0 | J | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.36 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 12 | | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.64 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.36 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.8 | | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.39 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.23 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.51 | J | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.14 | J | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.15 | J | 0.87 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.49 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.19 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.66 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Styrene | 0.18 | J | 0.85 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

**Client Sample ID: SS1**
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-1**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 3000 | 280 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Freon 22 | ND | | 3000 | 1200 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Chloromethane | ND | | 3000 | 940 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| n-Butane | ND | | 3000 | 270 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Vinyl chloride | ND | | 1200 | 110 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,3-Butadiene | ND | | 1200 | 220 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Bromomethane | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Chloroethane | ND | | 3000 | 770 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Bromoethene(Vinyl Bromide) | ND | | 1200 | 130 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Trichlorofluoromethane | ND | | 1200 | 180 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Freon TF | ND | | 1200 | 160 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,1-Dichloroethene | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Acetone | ND | | 30000 | 7700 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Isopropyl alcohol | ND | | 30000 | 770 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Carbon disulfide | ND | * | 3000 | 170 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 3-Chloropropene | ND | | 3000 | 370 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Methylene Chloride | ND | | 3000 | 400 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| tert-Butyl alcohol | ND | | 30000 | 10000 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Methyl tert-butyl ether | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| trans-1,2-Dichloroethene | ND | | 1200 | 300 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| n-Hexane | ND | | 1200 | 270 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,1-Dichloroethane | ND | | 1200 | 100 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Methyl Ethyl Ketone | ND | | 3000 | 650 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| **cis-1,2-Dichloroethene** | **23000** | | 1200 | 170 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| **1,2-Dichloroethene, Total** | **23000** | | 2400 | 170 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Chloroform | ND | | 1200 | 150 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Tetrahydrofuran | ND | | 30000 | 7100 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,1,1-Trichloroethane | ND | | 1200 | 150 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Cyclohexane | ND | | 1200 | 270 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Carbon tetrachloride | ND | | 1200 | 65 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 2,2,4-Trimethylpentane | ND | | 1200 | 250 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Benzene | ND | | 1200 | 170 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichloroethane | ND | | 1200 | 200 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| n-Heptane | ND | | 1200 | 400 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| **Trichloroethene** | **2500** | | 1200 | 54 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Methyl methacrylate | ND | | 3000 | 650 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichloropropane | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,4-Dioxane | ND | | 30000 | 4500 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Bromodichloromethane | ND | | 1200 | 350 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| cis-1,3-Dichloropropene | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| methyl isobutyl ketone | ND | | 3000 | 380 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Toluene | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| trans-1,3-Dichloropropene | ND | | 1200 | 220 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,1,2-Trichloroethane | ND | | 1200 | 100 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| **Tetrachloroethene** | **71000** | | 1200 | 58 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 3000 | 510 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Dibromochloromethane | ND | | 1200 | 100 | ppb v/v | | | 08/09/17 00:23 | 5900 |

**Client Sample ID: SS1**
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-1**
**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 1200 | 140 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Chlorobenzene | ND | | 1200 | 150 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Ethylbenzene | ND | | 1200 | 200 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| m,p-Xylene | ND | | 3000 | 450 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Xylene, o- | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Xylene (total) | ND | | 4100 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Styrene | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Bromoform | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Cumene | ND | | 1200 | 230 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,1,2,2-Tetrachloroethane | ND | | 1200 | 150 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| n-Propylbenzene | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 4-Ethyltoluene | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,3,5-Trimethylbenzene | ND | | 1200 | 240 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 2-Chlorotoluene | ND | | 1200 | 210 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| tert-Butylbenzene | ND | | 1200 | 220 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2,4-Trimethylbenzene | ND | | 1200 | 340 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| sec-Butylbenzene | ND | | 1200 | 220 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 4-Isopropyltoluene | ND | | 1200 | 310 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,3-Dichlorobenzene | ND | | 1200 | 300 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,4-Dichlorobenzene | ND | | 1200 | 370 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Benzyl chloride | ND | | 1200 | 400 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| n-Butylbenzene | ND | | 1200 | 400 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichlorobenzene | ND | | 1200 | 270 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| 1,2,4-Trichlorobenzene | ND | | 3000 | 1100 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Hexachlorobutadiene | ND | | 1200 | 380 | ppb v/v | | | 08/09/17 00:23 | 5900 |
| Naphthalene | ND | | 3000 | 590 | ppb v/v | | | 08/09/17 00:23 | 5900 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 15000 | 1400 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Freon 22 | ND | | 10000 | 4200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichlorotetrafluoroethane | ND | | 8200 | 1700 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Chloromethane | ND | | 6100 | 1900 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| n-Butane | ND | | 7000 | 650 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Vinyl chloride | ND | | 3000 | 270 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,3-Butadiene | ND | | 2600 | 480 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Bromomethane | ND | | 4600 | 820 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Chloroethane | ND | | 7800 | 2000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Bromoethene(Vinyl Bromide) | ND | | 5200 | 570 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Trichlorofluoromethane | ND | | 6600 | 1000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Freon TF | ND | | 9000 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,1-Dichloroethene | ND | | 4700 | 820 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Acetone | ND | | 70000 | 18000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Isopropyl alcohol | ND | | 73000 | 1900 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Carbon disulfide | ND | * | 9200 | 510 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 3-Chloropropene | ND | | 9200 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Methylene Chloride | ND | | 10000 | 1400 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| tert-Butyl alcohol | ND | | 89000 | 30000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Methyl tert-butyl ether | ND | | 4300 | 870 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| trans-1,2-Dichloroethene | ND | | 4700 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |

**Client Sample ID: SS1**
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-1**
**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | ND | | 4200 | 960 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,1-Dichloroethane | ND | | 4800 | 410 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Methyl Ethyl Ketone | ND | | 8700 | 1900 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| **cis-1,2-Dichloroethene** | **91000** | | 4700 | 680 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| **1,2-Dichloroethene, Total** | **91000** | | 9400 | 680 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Chloroform | ND | | 5800 | 720 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Tetrahydrofuran | ND | | 87000 | 21000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,1,1-Trichloroethane | ND | | 6400 | 840 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Cyclohexane | ND | | 4100 | 910 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Carbon tetrachloride | ND | | 7400 | 410 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 2,2,4-Trimethylpentane | ND | | 5500 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Benzene | ND | | 3800 | 530 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichloroethane | ND | | 4800 | 810 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| n-Heptane | ND | | 4800 | 1600 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| **Trichloroethene** | **13000** | | 6300 | 290 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Methyl methacrylate | ND | | 12000 | 2700 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichloropropane | ND | | 5500 | 950 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,4-Dioxane | ND | | 110000 | 16000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Bromodichloromethane | ND | | 7900 | 2300 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| cis-1,3-Dichloropropene | ND | | 5400 | 960 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| methyl isobutyl ketone | ND | | 12000 | 1600 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Toluene | ND | | 4400 | 780 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| trans-1,3-Dichloropropene | ND | | 5400 | 1000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,1,2-Trichloroethane | ND | | 6400 | 550 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| **Tetrachloroethene** | **480000** | | 8000 | 390 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 12000 | 2100 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Dibromochloromethane | ND | | 10000 | 850 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2-Dibromoethane | ND | | 9100 | 1000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Chlorobenzene | ND | | 5400 | 680 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Ethylbenzene | ND | | 5100 | 870 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| m,p-Xylene | ND | | 13000 | 2000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Xylene, o- | ND | | 5100 | 1000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Xylene (total) | ND | | 18000 | 1000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Styrene | ND | | 5000 | 880 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Bromoform | ND | | 12000 | 2100 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Cumene | ND | | 5800 | 1100 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,1,2,2-Tetrachloroethane | ND | | 8100 | 1100 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| n-Propylbenzene | ND | | 5800 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 4-Ethyltoluene | ND | | 5800 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,3,5-Trimethylbenzene | ND | | 5800 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 2-Chlorotoluene | ND | | 6100 | 1100 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| tert-Butylbenzene | ND | | 6500 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2,4-Trimethylbenzene | ND | | 5800 | 1700 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| sec-Butylbenzene | ND | | 6500 | 1200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 4-Isopropyltoluene | ND | | 6500 | 1700 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,3-Dichlorobenzene | ND | | 7100 | 1800 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,4-Dichlorobenzene | ND | | 7100 | 2200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Benzyl chloride | ND | | 6100 | 2000 | ug/m3 | | | 08/09/17 00:23 | 5900 |

## Client Sample ID: SS1
**Lab Sample ID: 200-39611-1**
**Date Collected: 08/03/17 16:40**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | | 6500 | 2200 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2-Dichlorobenzene | ND | | 7100 | 1600 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| 1,2,4-Trichlorobenzene | ND | | 22000 | 8300 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Hexachlorobutadiene | ND | | 13000 | 4000 | ug/m3 | | | 08/09/17 00:23 | 5900 |
| Naphthalene | ND | | 15000 | 3100 | ug/m3 | | | 08/09/17 00:23 | 5900 |

## Client Sample ID: ID1
**Lab Sample ID: 200-39611-2**
**Date Collected: 08/03/17 16:40**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.48** | **J** | 0.50 | 0.047 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Freon 22** | **2.8** | | 0.50 | 0.20 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Chloromethane** | **0.53** | | 0.50 | 0.16 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **n-Butane** | **20** | | 0.50 | 0.046 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Trichlorofluoromethane** | **0.23** | | 0.20 | 0.031 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Freon TF** | **0.051** | **J** | 0.20 | 0.027 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Acetone** | **6.4** | | 5.0 | 1.3 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Isopropyl alcohol** | **0.38** | **J** | 5.0 | 0.13 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Carbon disulfide** | **0.078** | **J *** | 0.50 | 0.028 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Methylene Chloride** | **0.13** | **J** | 0.50 | 0.068 | ppb v/v | | | 08/08/17 18:30 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 18:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **n-Hexane** | **0.55** | | 0.20 | 0.046 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Methyl Ethyl Ketone** | **0.65** | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **cis-1,2-Dichloroethene** | **0.55** | | 0.20 | 0.029 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **1,2-Dichloroethene, Total** | **0.55** | | 0.40 | 0.029 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Cyclohexane** | **0.063** | **J** | 0.20 | 0.045 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Carbon tetrachloride** | **0.063** | **J** | 0.20 | 0.011 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **2,2,4-Trimethylpentane** | **0.052** | **J** | 0.20 | 0.043 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Benzene** | **0.10** | **J** | 0.20 | 0.028 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **n-Heptane** | **0.15** | **J** | 0.20 | 0.068 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Trichloroethene** | **0.65** | | 0.20 | 0.0091 | ppb v/v | | | 08/08/17 18:30 | 1 |

**Client Sample ID: ID1**
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-2**
**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 08/08/17 18:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 18:30 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Toluene** | **0.15** | **J** | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Tetrachloroethene** | **2.8** | | 0.20 | 0.0098 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **0.12** | **J** | 0.50 | 0.086 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **m,p-Xylene** | **0.092** | **J** | 0.50 | 0.077 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Xylene, o-** | **0.044** | **J** | 0.20 | 0.040 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **Xylene (total)** | **0.14** | **J** | 0.70 | 0.040 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 18:30 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 18:30 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **1,2,4-Trimethylbenzene** | **0.093** | **J** | 0.20 | 0.057 | ppb v/v | | | 08/08/17 18:30 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 18:30 | 1 |
| **1,4-Dichlorobenzene** | **0.24** | | 0.20 | 0.063 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 08/08/17 18:30 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 18:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 08/08/17 18:30 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 08/08/17 18:30 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.4** | **J** | 2.5 | 0.23 | ug/m3 | | | 08/08/17 18:30 | 1 |
| **Freon 22** | **9.9** | | 1.8 | 0.71 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 08/08/17 18:30 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | 0.33 | ug/m3 | | | 08/08/17 18:30 | 1 |
| **n-Butane** | **49** | | 1.2 | 0.11 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 08/08/17 18:30 | 1 |

**Client Sample ID: ID1**
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Trichlorofluoromethane | 1.3 | | 1.1 | 0.17 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Freon TF | 0.39 | J | 1.5 | 0.21 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Acetone | 15 | | 12 | 3.1 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Isopropyl alcohol | 0.94 | J | 12 | 0.32 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Carbon disulfide | 0.24 | J * | 1.6 | 0.087 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Methylene Chloride | 0.47 | J | 1.7 | 0.24 | ug/m3 | | | 08/08/17 18:30 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 08/08/17 18:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| n-Hexane | 1.9 | | 0.70 | 0.16 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Methyl Ethyl Ketone | 1.9 | | 1.5 | 0.32 | ug/m3 | | | 08/08/17 18:30 | 1 |
| cis-1,2-Dichloroethene | 2.2 | | 0.79 | 0.11 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dichloroethene, Total | 2.2 | | 1.6 | 0.11 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Cyclohexane | 0.22 | J | 0.69 | 0.15 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Carbon tetrachloride | 0.39 | J | 1.3 | 0.069 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 2,2,4-Trimethylpentane | 0.24 | J | 0.93 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Benzene | 0.32 | J | 0.64 | 0.089 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 08/08/17 18:30 | 1 |
| n-Heptane | 0.63 | J | 0.82 | 0.28 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Trichloroethene | 3.5 | | 1.1 | 0.049 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 08/08/17 18:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 08/08/17 18:30 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Toluene | 0.55 | J | 0.75 | 0.13 | ug/m3 | | | 08/08/17 18:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Tetrachloroethene | 19 | | 1.4 | 0.066 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | 0.48 | J | 2.0 | 0.35 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 08/08/17 18:30 | 1 |
| m,p-Xylene | 0.40 | J | 2.2 | 0.33 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Xylene, o- | 0.19 | J | 0.87 | 0.17 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Xylene (total) | 0.59 | J | 3.0 | 0.17 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 08/08/17 18:30 | 1 |

## Client Sample ID: ID1

**Lab Sample ID: 200-39611-2**

**Date Collected: 08/03/17 16:40**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 08/08/17 18:30 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 08/08/17 18:30 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| **1,2,4-Trimethylbenzene** | **0.46** | **J** | 0.98 | 0.28 | ug/m3 | | | 08/08/17 18:30 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 08/08/17 18:30 | 1 |
| **1,4-Dichlorobenzene** | **1.5** | | 1.2 | 0.38 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 08/08/17 18:30 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 08/08/17 18:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 08/08/17 18:30 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 08/08/17 18:30 | 1 |

## Client Sample ID: SS2

**Lab Sample ID: 200-39611-3**

**Date Collected: 08/03/17 16:45**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 370 | 35 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Freon 22 | ND | | 370 | 150 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dichlorotetrafluoroethane | ND | | 150 | 30 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Chloromethane | ND | | 370 | 120 | ppb v/v | | | 08/09/17 01:13 | 736 |
| **n-Butane** | **140** | **J** | 370 | 34 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Vinyl chloride | ND | | 150 | 13 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,3-Butadiene | ND | | 150 | 27 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Bromomethane | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Chloroethane | ND | | 370 | 96 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Bromoethene(Vinyl Bromide) | ND | | 150 | 16 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Trichlorofluoromethane | ND | | 150 | 23 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Freon TF | ND | | 150 | 20 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,1-Dichloroethene | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Acetone | ND | | 3700 | 960 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Isopropyl alcohol | ND | | 3700 | 96 | ppb v/v | | | 08/09/17 01:13 | 736 |
| **Carbon disulfide** | **57** | **J *** | 370 | 21 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 3-Chloropropene | ND | | 370 | 46 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Methylene Chloride | ND | | 370 | 50 | ppb v/v | | | 08/09/17 01:13 | 736 |
| tert-Butyl alcohol | ND | | 3700 | 1300 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Methyl tert-butyl ether | ND | | 150 | 30 | ppb v/v | | | 08/09/17 01:13 | 736 |
| trans-1,2-Dichloroethene | ND | | 150 | 37 | ppb v/v | | | 08/09/17 01:13 | 736 |
| n-Hexane | ND | | 150 | 34 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,1-Dichloroethane | ND | | 150 | 13 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Methyl Ethyl Ketone | ND | | 370 | 81 | ppb v/v | | | 08/09/17 01:13 | 736 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

**Client Sample ID: SS2**
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-3**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 1700 | | 150 | 21 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dichloroethene, Total | 1700 | | 290 | 21 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Chloroform | ND | | 150 | 18 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Tetrahydrofuran | ND | | 3700 | 880 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,1,1-Trichloroethane | ND | | 150 | 19 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Cyclohexane | ND | | 150 | 33 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Carbon tetrachloride | ND | | 150 | 8.1 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 2,2,4-Trimethylpentane | ND | | 150 | 32 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Benzene | ND | | 150 | 21 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dichloroethane | ND | | 150 | 25 | ppb v/v | | | 08/09/17 01:13 | 736 |
| n-Heptane | ND | | 150 | 50 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Trichloroethene | 1000 | | 150 | 6.7 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Methyl methacrylate | ND | | 370 | 81 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dichloropropane | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,4-Dioxane | ND | | 3700 | 560 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Bromodichloromethane | ND | | 150 | 43 | ppb v/v | | | 08/09/17 01:13 | 736 |
| cis-1,3-Dichloropropene | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| methyl isobutyl ketone | ND | | 370 | 48 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Toluene | 160 | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| trans-1,3-Dichloropropene | ND | | 150 | 28 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,1,2-Trichloroethane | ND | | 150 | 13 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Tetrachloroethene | 7600 | | 150 | 7.2 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 370 | 63 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Dibromochloromethane | ND | | 150 | 13 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dibromoethane | ND | | 150 | 17 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Chlorobenzene | ND | | 150 | 18 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Ethylbenzene | 49 | J | 150 | 25 | ppb v/v | | | 08/09/17 01:13 | 736 |
| m,p-Xylene | 120 | J | 370 | 57 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Xylene, o- | 51 | J | 150 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Xylene (total) | 170 | J | 520 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Styrene | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Bromoform | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Cumene | ND | | 150 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,1,2,2-Tetrachloroethane | ND | | 150 | 19 | ppb v/v | | | 08/09/17 01:13 | 736 |
| n-Propylbenzene | ND | | 150 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 4-Ethyltoluene | ND | | 150 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,3,5-Trimethylbenzene | ND | | 150 | 29 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 2-Chlorotoluene | ND | | 150 | 26 | ppb v/v | | | 08/09/17 01:13 | 736 |
| tert-Butylbenzene | ND | | 150 | 27 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2,4-Trimethylbenzene | ND | | 150 | 42 | ppb v/v | | | 08/09/17 01:13 | 736 |
| sec-Butylbenzene | ND | | 150 | 27 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 4-Isopropyltoluene | ND | | 150 | 38 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,3-Dichlorobenzene | ND | | 150 | 37 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,4-Dichlorobenzene | ND | | 150 | 46 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Benzyl chloride | ND | | 150 | 49 | ppb v/v | | | 08/09/17 01:13 | 736 |
| n-Butylbenzene | ND | | 150 | 50 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2-Dichlorobenzene | ND | | 150 | 33 | ppb v/v | | | 08/09/17 01:13 | 736 |
| 1,2,4-Trichlorobenzene | ND | | 370 | 140 | ppb v/v | | | 08/09/17 01:13 | 736 |

**Client Sample ID: SS2**
**Lab Sample ID: 200-39611-3**
**Date Collected: 08/03/17 16:45**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 150 | 47 | ppb v/v | | | 08/09/17 01:13 | 736 |
| Naphthalene | ND | | 370 | 74 | ppb v/v | | | 08/09/17 01:13 | 736 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 1800 | 170 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Freon 22 | ND | | 1300 | 520 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1000 | 210 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Chloromethane | ND | | 760 | 240 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **n-Butane** | **320** | **J** | 870 | 80 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Vinyl chloride | ND | | 380 | 34 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,3-Butadiene | ND | | 330 | 60 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Bromomethane | ND | | 570 | 100 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Chloroethane | ND | | 970 | 250 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Bromoethene(Vinyl Bromide) | ND | | 640 | 71 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Trichlorofluoromethane | ND | | 830 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Freon TF | ND | | 1100 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,1-Dichloroethene | ND | | 580 | 100 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Acetone | ND | | 8700 | 2300 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Isopropyl alcohol | ND | | 9000 | 240 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Carbon disulfide** | **180** | **J *** | 1100 | 64 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 3-Chloropropene | ND | | 1200 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Methylene Chloride | ND | | 1300 | 170 | ug/m3 | | | 08/09/17 01:13 | 736 |
| tert-Butyl alcohol | ND | | 11000 | 3800 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Methyl tert-butyl ether | ND | | 530 | 110 | ug/m3 | | | 08/09/17 01:13 | 736 |
| trans-1,2-Dichloroethene | ND | | 580 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| n-Hexane | ND | | 520 | 120 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,1-Dichloroethane | ND | | 600 | 51 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Methyl Ethyl Ketone | ND | | 1100 | 240 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **cis-1,2-Dichloroethene** | **6700** | | 580 | 85 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **1,2-Dichloroethene, Total** | **6700** | | 1200 | 85 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Chloroform | ND | | 720 | 90 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Tetrahydrofuran | ND | | 11000 | 2600 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,1,1-Trichloroethane | ND | | 800 | 100 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Cyclohexane | ND | | 510 | 110 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Carbon tetrachloride | ND | | 930 | 51 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 2,2,4-Trimethylpentane | ND | | 690 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Benzene | ND | | 470 | 66 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2-Dichloroethane | ND | | 600 | 100 | ug/m3 | | | 08/09/17 01:13 | 736 |
| n-Heptane | ND | | 600 | 210 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Trichloroethene** | **5600** | | 790 | 36 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Methyl methacrylate | ND | | 1500 | 330 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2-Dichloropropane | ND | | 680 | 120 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,4-Dioxane | ND | | 13000 | 2000 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Bromodichloromethane | ND | | 990 | 290 | ug/m3 | | | 08/09/17 01:13 | 736 |
| cis-1,3-Dichloropropene | ND | | 670 | 120 | ug/m3 | | | 08/09/17 01:13 | 736 |
| methyl isobutyl ketone | ND | | 1500 | 200 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Toluene** | **620** | | 550 | 97 | ug/m3 | | | 08/09/17 01:13 | 736 |
| trans-1,3-Dichloropropene | ND | | 670 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,1,2-Trichloroethane | ND | | 800 | 68 | ug/m3 | | | 08/09/17 01:13 | 736 |

## Client Sample ID: SS2

**Lab Sample ID: 200-39611-3**
**Date Collected: 08/03/17 16:45**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **52000** | | 1000 | 49 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 1500 | 260 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Dibromochloromethane | ND | | 1300 | 110 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2-Dibromoethane | ND | | 1100 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Chlorobenzene | ND | | 680 | 85 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Ethylbenzene** | **210** | **J** | 640 | 110 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **m,p-Xylene** | **520** | **J** | 1600 | 250 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Xylene, o-** | **220** | **J** | 640 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| **Xylene (total)** | **740** | **J** | 2200 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Styrene | ND | | 630 | 110 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Bromoform | ND | | 1500 | 270 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Cumene | ND | | 720 | 140 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,1,2,2-Tetrachloroethane | ND | | 1000 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| n-Propylbenzene | ND | | 720 | 140 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 4-Ethyltoluene | ND | | 720 | 140 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,3,5-Trimethylbenzene | ND | | 720 | 140 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 2-Chlorotoluene | ND | | 760 | 130 | ug/m3 | | | 08/09/17 01:13 | 736 |
| tert-Butylbenzene | ND | | 810 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2,4-Trimethylbenzene | ND | | 720 | 210 | ug/m3 | | | 08/09/17 01:13 | 736 |
| sec-Butylbenzene | ND | | 810 | 150 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 4-Isopropyltoluene | ND | | 810 | 210 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,3-Dichlorobenzene | ND | | 890 | 220 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,4-Dichlorobenzene | ND | | 890 | 280 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Benzyl chloride | ND | | 760 | 260 | ug/m3 | | | 08/09/17 01:13 | 736 |
| n-Butylbenzene | ND | | 810 | 270 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2-Dichlorobenzene | ND | | 890 | 200 | ug/m3 | | | 08/09/17 01:13 | 736 |
| 1,2,4-Trichlorobenzene | ND | | 2700 | 1000 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Hexachlorobutadiene | ND | | 1600 | 500 | ug/m3 | | | 08/09/17 01:13 | 736 |
| Naphthalene | ND | | 1900 | 390 | ug/m3 | | | 08/09/17 01:13 | 736 |

## Client Sample ID: ID2

**Lab Sample ID: 200-39611-4**
**Date Collected: 08/03/17 16:45**
**Matrix: Air**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.44** | **J** | 0.50 | 0.047 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Freon 22** | **1.9** | | 0.50 | 0.20 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Chloromethane** | **0.48** | **J** | 0.50 | 0.16 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **n-Butane** | **15** | | 0.50 | 0.046 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Trichlorofluoromethane** | **0.21** | | 0.20 | 0.031 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Freon TF** | **0.052** | **J** | 0.20 | 0.027 | ppb v/v | | | 08/08/17 19:20 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

**Client Sample ID: ID2**
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-4**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Acetone** | **5.1** | | 5.0 | 1.3 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Isopropyl alcohol** | **0.31** | **J** | 5.0 | 0.13 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Carbon disulfide** | **0.071** | **J *** | 0.50 | 0.028 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Methylene Chloride** | **0.10** | **J** | 0.50 | 0.068 | ppb v/v | | | 08/08/17 19:20 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 19:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **n-Hexane** | **0.42** | | 0.20 | 0.046 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Methyl Ethyl Ketone** | **0.38** | **J** | 0.50 | 0.11 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **cis-1,2-Dichloroethene** | **0.31** | | 0.20 | 0.029 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **1,2-Dichloroethene, Total** | **0.31** | **J** | 0.40 | 0.029 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Cyclohexane** | **0.049** | **J** | 0.20 | 0.045 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Carbon tetrachloride** | **0.062** | **J** | 0.20 | 0.011 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Benzene** | **0.082** | **J** | 0.20 | 0.028 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **n-Heptane** | **0.12** | **J** | 0.20 | 0.068 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Trichloroethene** | **0.57** | | 0.20 | 0.0091 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 08/08/17 19:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **methyl isobutyl ketone** | **0.88** | | 0.50 | 0.065 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Toluene** | **0.15** | **J** | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Tetrachloroethene** | **1.8** | | 0.20 | 0.0098 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **m,p-Xylene** | **0.094** | **J** | 0.50 | 0.077 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Xylene, o-** | **0.044** | **J** | 0.20 | 0.040 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **Xylene (total)** | **0.14** | **J** | 0.70 | 0.040 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 19:20 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 19:20 | 1 |

**Client Sample ID: ID2**
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-4**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 19:20 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 08/08/17 19:20 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 19:20 | 1 |
| **1,4-Dichlorobenzene** | **0.12** | **J** | 0.20 | 0.063 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 08/08/17 19:20 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 19:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 08/08/17 19:20 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 08/08/17 19:20 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.2** | **J** | 2.5 | 0.23 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Freon 22** | **6.7** | | 1.8 | 0.71 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Chloromethane** | **1.0** | **J** | 1.0 | 0.33 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **n-Butane** | **36** | | 1.2 | 0.11 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Trichlorofluoromethane** | **1.2** | | 1.1 | 0.17 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Freon TF** | **0.40** | **J** | 1.5 | 0.21 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Acetone** | **12** | | 12 | 3.1 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Isopropyl alcohol** | **0.77** | **J** | 12 | 0.32 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Carbon disulfide** | **0.22** | **J *** | 1.6 | 0.087 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Methylene Chloride** | **0.36** | **J** | 1.7 | 0.24 | ug/m3 | | | 08/08/17 19:20 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 08/08/17 19:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **n-Hexane** | **1.5** | | 0.70 | 0.16 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Methyl Ethyl Ketone** | **1.1** | **J** | 1.5 | 0.32 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **cis-1,2-Dichloroethene** | **1.2** | | 0.79 | 0.11 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **1,2-Dichloroethene, Total** | **1.2** | **J** | 1.6 | 0.11 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Cyclohexane** | **0.17** | **J** | 0.69 | 0.15 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Carbon tetrachloride** | **0.39** | **J** | 1.3 | 0.069 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Benzene** | **0.26** | **J** | 0.64 | 0.089 | ug/m3 | | | 08/08/17 19:20 | 1 |

**Client Sample ID: ID2**
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-4**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **n-Heptane** | **0.48** | **J** | 0.82 | 0.28 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Trichloroethene** | **3.1** | | 1.1 | 0.049 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 08/08/17 19:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **methyl isobutyl ketone** | **3.6** | | 2.0 | 0.27 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Toluene** | **0.55** | **J** | 0.75 | 0.13 | ug/m3 | | | 08/08/17 19:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Tetrachloroethene** | **12** | | 1.4 | 0.066 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **m,p-Xylene** | **0.41** | **J** | 2.2 | 0.33 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Xylene, o-** | **0.19** | **J** | 0.87 | 0.17 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **Xylene (total)** | **0.60** | **J** | 3.0 | 0.17 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 08/08/17 19:20 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 08/08/17 19:20 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 08/08/17 19:20 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 08/08/17 19:20 | 1 |
| **1,4-Dichlorobenzene** | **0.71** | **J** | 1.2 | 0.38 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 08/08/17 19:20 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 08/08/17 19:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 08/08/17 19:20 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 08/08/17 19:20 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

**Client Sample ID: OD1**
**Date Collected: 08/03/17 16:50**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.42 | J | 0.50 | 0.047 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Freon 22 | 0.29 | J | 0.50 | 0.20 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Chloromethane | 0.56 | | 0.50 | 0.16 | ppb v/v | | | 08/08/17 20:10 | 1 |
| n-Butane | 0.47 | J | 0.50 | 0.046 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Trichlorofluoromethane | 0.19 | J | 0.20 | 0.031 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Freon TF | 0.047 | J | 0.20 | 0.027 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Acetone | 5.2 | | 5.0 | 1.3 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Isopropyl alcohol | 0.26 | J | 5.0 | 0.13 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Carbon disulfide | ND | * | 0.50 | 0.028 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Methylene Chloride | 0.10 | J | 0.50 | 0.068 | ppb v/v | | | 08/08/17 20:10 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 20:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 20:10 | 1 |
| n-Hexane | ND | | 0.20 | 0.046 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Methyl Ethyl Ketone | 0.60 | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 20:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 0.029 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloroethene, Total | ND | | 0.40 | 0.029 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Cyclohexane | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Carbon tetrachloride | 0.062 | J | 0.20 | 0.011 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Benzene | 0.073 | J | 0.20 | 0.028 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 20:10 | 1 |
| n-Heptane | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Trichloroethene | ND | | 0.20 | 0.0091 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 08/08/17 20:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 20:10 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Toluene | 0.13 | J | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Tetrachloroethene | 0.021 | J | 0.20 | 0.0098 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 20:10 | 1 |

**Client Sample ID: OD1**
**Date Collected: 08/03/17 16:50**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 20:10 | 1 |
| **Ethylbenzene** | **0.035** | **J** | 0.20 | 0.034 | ppb v/v | | | 08/08/17 20:10 | 1 |
| **m,p-Xylene** | **0.11** | **J** | 0.50 | 0.077 | ppb v/v | | | 08/08/17 20:10 | 1 |
| **Xylene, o-** | **0.043** | **J** | 0.20 | 0.040 | ppb v/v | | | 08/08/17 20:10 | 1 |
| **Xylene (total)** | **0.15** | **J** | 0.70 | 0.040 | ppb v/v | | | 08/08/17 20:10 | 1 |
| **Styrene** | **0.043** | **J** | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 20:10 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 20:10 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 08/08/17 20:10 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 08/08/17 20:10 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 20:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 08/08/17 20:10 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 08/08/17 20:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.1** | **J** | 2.5 | 0.23 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Freon 22** | **1.0** | **J** | 1.8 | 0.71 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Chloromethane** | **1.2** | | 1.0 | 0.33 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **n-Butane** | **1.1** | **J** | 1.2 | 0.11 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Trichlorofluoromethane** | **1.0** | **J** | 1.1 | 0.17 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Freon TF** | **0.36** | **J** | 1.5 | 0.21 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Acetone** | **12** | | 12 | 3.1 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Isopropyl alcohol** | **0.64** | **J** | 12 | 0.32 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Carbon disulfide | ND | * | 1.6 | 0.087 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Methylene Chloride** | **0.36** | **J** | 1.7 | 0.24 | ug/m3 | | | 08/08/17 20:10 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 08/08/17 20:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |

**Client Sample ID: OD1**
**Date Collected: 08/03/17 16:50**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | ND | | 0.70 | 0.16 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Methyl Ethyl Ketone** | **1.8** | | 1.5 | 0.32 | ug/m3 | | | 08/08/17 20:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.79 | 0.11 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloroethene, Total | ND | | 1.6 | 0.11 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Cyclohexane | ND | | 0.69 | 0.15 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Carbon tetrachloride** | **0.39** | **J** | 1.3 | 0.069 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Benzene** | **0.23** | **J** | 0.64 | 0.089 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 08/08/17 20:10 | 1 |
| n-Heptane | ND | | 0.82 | 0.28 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Trichloroethene | ND | | 1.1 | 0.049 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 08/08/17 20:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 08/08/17 20:10 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Toluene** | **0.51** | **J** | 0.75 | 0.13 | ug/m3 | | | 08/08/17 20:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Tetrachloroethene** | **0.14** | **J** | 1.4 | 0.066 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Ethylbenzene** | **0.15** | **J** | 0.87 | 0.15 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **m,p-Xylene** | **0.49** | **J** | 2.2 | 0.33 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Xylene, o-** | **0.19** | **J** | 0.87 | 0.17 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Xylene (total)** | **0.66** | **J** | 3.0 | 0.17 | ug/m3 | | | 08/08/17 20:10 | 1 |
| **Styrene** | **0.18** | **J** | 0.85 | 0.15 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 08/08/17 20:10 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 08/08/17 20:10 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 08/08/17 20:10 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 08/08/17 20:10 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

**Client Sample ID: OD1**
**Date Collected: 08/03/17 16:50**
**Date Received: 08/05/17 09:30**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-39611-5**
**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 08/08/17 20:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 08/08/17 20:10 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 08/08/17 20:10 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-119484/5**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 0.50 | 0.047 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Freon 22 | ND | | 0.50 | 0.20 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Chloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 08/08/17 13:27 | 1 |
| n-Butane | ND | | 0.50 | 0.046 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Trichlorofluoromethane | ND | | 0.20 | 0.031 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Freon TF | ND | | 0.20 | 0.027 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Acetone | ND | | 5.0 | 1.3 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Isopropyl alcohol | ND | | 5.0 | 0.13 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Carbon disulfide | ND | | 0.50 | 0.028 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Methylene Chloride | ND | | 0.50 | 0.068 | ppb v/v | | | 08/08/17 13:27 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 08/08/17 13:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 13:27 | 1 |
| n-Hexane | ND | | 0.20 | 0.046 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Methyl Ethyl Ketone | ND | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 13:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 0.029 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloroethene, Total | ND | | 0.40 | 0.029 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Cyclohexane | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Carbon tetrachloride | ND | | 0.20 | 0.011 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Benzene | ND | | 0.20 | 0.028 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 13:27 | 1 |
| n-Heptane | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Trichloroethene | ND | | 0.20 | 0.0091 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 08/08/17 13:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 08/08/17 13:27 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Toluene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Tetrachloroethene | ND | | 0.20 | 0.0098 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 08/08/17 13:27 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-119484/5**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 08/08/17 13:27 | 1 |
| m,p-Xylene | ND | | 0.50 | 0.077 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Xylene, o- | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Xylene (total) | ND | | 0.70 | 0.040 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 08/08/17 13:27 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 08/08/17 13:27 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 08/08/17 13:27 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 08/08/17 13:27 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 08/08/17 13:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 08/08/17 13:27 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 08/08/17 13:27 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 2.5 | 0.23 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Freon 22 | ND | | 1.8 | 0.71 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Chloromethane | ND | | 1.0 | 0.33 | ug/m3 | | | 08/08/17 13:27 | 1 |
| n-Butane | ND | | 1.2 | 0.11 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Trichlorofluoromethane | ND | | 1.1 | 0.17 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Freon TF | ND | | 1.5 | 0.21 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Acetone | ND | | 12 | 3.1 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Isopropyl alcohol | ND | | 12 | 0.32 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Carbon disulfide | ND | | 1.6 | 0.087 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Methylene Chloride | ND | | 1.7 | 0.24 | ug/m3 | | | 08/08/17 13:27 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 08/08/17 13:27 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-119484/5**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| n-Hexane | ND | | 0.70 | 0.16 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Methyl Ethyl Ketone | ND | | 1.5 | 0.32 | ug/m3 | | | 08/08/17 13:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.79 | 0.11 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloroethene, Total | ND | | 1.6 | 0.11 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Cyclohexane | ND | | 0.69 | 0.15 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Carbon tetrachloride | ND | | 1.3 | 0.069 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Benzene | ND | | 0.64 | 0.089 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 08/08/17 13:27 | 1 |
| n-Heptane | ND | | 0.82 | 0.28 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Trichloroethene | ND | | 1.1 | 0.049 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 08/08/17 13:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 08/08/17 13:27 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Toluene | ND | | 0.75 | 0.13 | ug/m3 | | | 08/08/17 13:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Tetrachloroethene | ND | | 1.4 | 0.066 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 08/08/17 13:27 | 1 |
| m,p-Xylene | ND | | 2.2 | 0.33 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Xylene, o- | ND | | 0.87 | 0.17 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Xylene (total) | ND | | 3.0 | 0.17 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 08/08/17 13:27 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 08/08/17 13:27 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 08/08/17 13:27 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 08/08/17 13:27 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-119484/5**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 08/08/17 13:27 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 08/08/17 13:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 08/08/17 13:27 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 08/08/17 13:27 | 1 |

**Lab Sample ID: LCS 200-119484/3**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 9.35 | | ppb v/v | | 93 | 68 - 128 |
| Freon 22 | 10.0 | 9.74 | | ppb v/v | | 97 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 8.74 | | ppb v/v | | 87 | 78 - 138 |
| Chloromethane | 10.0 | 9.46 | | ppb v/v | | 95 | 57 - 126 |
| n-Butane | 10.0 | 9.58 | | ppb v/v | | 96 | 56 - 130 |
| Vinyl chloride | 10.0 | 8.47 | | ppb v/v | | 85 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 8.69 | | ppb v/v | | 87 | 59 - 125 |
| Bromomethane | 10.0 | 8.25 | | ppb v/v | | 83 | 68 - 128 |
| Chloroethane | 10.0 | 8.33 | | ppb v/v | | 83 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 7.92 | | ppb v/v | | 79 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 8.62 | | ppb v/v | | 86 | 67 - 127 |
| Freon TF | 10.0 | 7.69 | | ppb v/v | | 77 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 7.67 | | ppb v/v | | 77 | 67 - 127 |
| Acetone | 10.0 | 10.4 | | ppb v/v | | 104 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 9.33 | | ppb v/v | | 93 | 55 - 124 |
| Carbon disulfide | 10.0 | 7.97 | * | ppb v/v | | 80 | 81 - 141 |
| 3-Chloropropene | 10.0 | 8.85 | | ppb v/v | | 89 | 53 - 133 |
| Methylene Chloride | 10.0 | 8.73 | | ppb v/v | | 87 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 9.01 | | ppb v/v | | 90 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 8.21 | | ppb v/v | | 82 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 8.31 | | ppb v/v | | 83 | 72 - 132 |
| n-Hexane | 10.0 | 7.95 | | ppb v/v | | 80 | 71 - 131 |
| 1,1-Dichloroethane | 10.0 | 8.00 | | ppb v/v | | 80 | 66 - 126 |
| Methyl Ethyl Ketone | 10.0 | 7.73 | | ppb v/v | | 77 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 7.74 | | ppb v/v | | 77 | 67 - 127 |
| Chloroform | 10.0 | 8.06 | | ppb v/v | | 81 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 10.1 | | ppb v/v | | 101 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 8.59 | | ppb v/v | | 86 | 70 - 130 |
| Cyclohexane | 10.0 | 8.08 | | ppb v/v | | 81 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 8.57 | | ppb v/v | | 86 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 8.72 | | ppb v/v | | 87 | 67 - 127 |
| Benzene | 10.0 | 8.33 | | ppb v/v | | 83 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 9.04 | | ppb v/v | | 90 | 67 - 132 |
| n-Heptane | 10.0 | 9.50 | | ppb v/v | | 95 | 62 - 130 |
| Trichloroethene | 10.0 | 8.02 | | ppb v/v | | 80 | 68 - 128 |
| Methyl methacrylate | 10.0 | 8.48 | | ppb v/v | | 85 | 70 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-119484/3**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 10.0 | 8.77 | | ppb v/v | | 88 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 8.65 | | ppb v/v | | 87 | 66 - 132 |
| Bromodichloromethane | 10.0 | 8.67 | | ppb v/v | | 87 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 8.55 | | ppb v/v | | 86 | 70 - 130 |
| methyl isobutyl ketone | 10.0 | 10.3 | | ppb v/v | | 104 | 62 - 130 |
| Toluene | 10.0 | 8.84 | | ppb v/v | | 88 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 8.18 | | ppb v/v | | 82 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 9.01 | | ppb v/v | | 90 | 69 - 129 |
| Tetrachloroethene | 10.0 | 8.30 | | ppb v/v | | 83 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 10.8 | | ppb v/v | | 108 | 61 - 127 |
| Dibromochloromethane | 10.0 | 8.95 | | ppb v/v | | 90 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 8.70 | | ppb v/v | | 87 | 70 - 130 |
| Chlorobenzene | 10.0 | 8.67 | | ppb v/v | | 87 | 68 - 128 |
| Ethylbenzene | 10.0 | 8.96 | | ppb v/v | | 90 | 68 - 128 |
| m,p-Xylene | 20.0 | 17.8 | | ppb v/v | | 89 | 68 - 128 |
| Xylene, o- | 10.0 | 8.81 | | ppb v/v | | 88 | 67 - 127 |
| Styrene | 10.0 | 9.01 | | ppb v/v | | 90 | 68 - 128 |
| Bromoform | 10.0 | 9.64 | | ppb v/v | | 96 | 34 - 170 |
| Cumene | 10.0 | 9.01 | | ppb v/v | | 90 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.27 | | ppb v/v | | 93 | 69 - 129 |
| n-Propylbenzene | 10.0 | 9.23 | | ppb v/v | | 92 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 9.42 | | ppb v/v | | 94 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.25 | | ppb v/v | | 93 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 9.38 | | ppb v/v | | 94 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 9.23 | | ppb v/v | | 92 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 9.49 | | ppb v/v | | 95 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 9.64 | | ppb v/v | | 96 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 9.50 | | ppb v/v | | 95 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 9.26 | | ppb v/v | | 93 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 9.12 | | ppb v/v | | 91 | 66 - 126 |
| Benzyl chloride | 10.0 | 8.98 | | ppb v/v | | 90 | 54 - 135 |
| n-Butylbenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 9.24 | | ppb v/v | | 92 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 10.0 | 7.52 | | ppb v/v | | 75 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 8.71 | | ppb v/v | | 87 | 62 - 130 |
| Naphthalene | 10.0 | 7.86 | | ppb v/v | | 79 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 46.2 | | ug/m3 | | 93 | 68 - 128 |
| Freon 22 | 35 | 34.5 | | ug/m3 | | 97 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 61.1 | | ug/m3 | | 87 | 78 - 138 |
| Chloromethane | 21 | 19.5 | | ug/m3 | | 95 | 57 - 126 |
| n-Butane | 24 | 22.8 | | ug/m3 | | 96 | 56 - 130 |
| Vinyl chloride | 26 | 21.7 | | ug/m3 | | 85 | 62 - 125 |
| 1,3-Butadiene | 22 | 19.2 | | ug/m3 | | 87 | 59 - 125 |
| Bromomethane | 39 | 32.0 | | ug/m3 | | 83 | 68 - 128 |
| Chloroethane | 26 | 22.0 | | ug/m3 | | 83 | 65 - 125 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-119484/3**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | 44 | 34.6 | | ug/m3 | | 79 | 67 - 127 |
| Trichlorofluoromethane | 56 | 48.4 | | ug/m3 | | 86 | 67 - 127 |
| Freon TF | 77 | 59.0 | | ug/m3 | | 77 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 30.4 | | ug/m3 | | 77 | 67 - 127 |
| Acetone | 24 | 24.8 | | ug/m3 | | 104 | 64 - 136 |
| Isopropyl alcohol | 25 | 22.9 | | ug/m3 | | 93 | 55 - 124 |
| Carbon disulfide | 31 | 24.8 | * | ug/m3 | | 80 | 81 - 141 |
| 3-Chloropropene | 31 | 27.7 | | ug/m3 | | 89 | 53 - 133 |
| Methylene Chloride | 35 | 30.3 | | ug/m3 | | 87 | 62 - 122 |
| tert-Butyl alcohol | 30 | 27.3 | | ug/m3 | | 90 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 29.6 | | ug/m3 | | 82 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 33.0 | | ug/m3 | | 83 | 72 - 132 |
| n-Hexane | 35 | 28.0 | | ug/m3 | | 80 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 32.4 | | ug/m3 | | 80 | 66 - 126 |
| Methyl Ethyl Ketone | 29 | 22.8 | | ug/m3 | | 77 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 30.7 | | ug/m3 | | 77 | 67 - 127 |
| Chloroform | 49 | 39.4 | | ug/m3 | | 81 | 69 - 129 |
| Tetrahydrofuran | 29 | 29.8 | | ug/m3 | | 101 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 46.9 | | ug/m3 | | 86 | 70 - 130 |
| Cyclohexane | 34 | 27.8 | | ug/m3 | | 81 | 69 - 129 |
| Carbon tetrachloride | 63 | 53.9 | | ug/m3 | | 86 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 40.7 | | ug/m3 | | 87 | 67 - 127 |
| Benzene | 32 | 26.6 | | ug/m3 | | 83 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 36.6 | | ug/m3 | | 90 | 67 - 132 |
| n-Heptane | 41 | 38.9 | | ug/m3 | | 95 | 62 - 130 |
| Trichloroethene | 54 | 43.1 | | ug/m3 | | 80 | 68 - 128 |
| Methyl methacrylate | 41 | 34.7 | | ug/m3 | | 85 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 40.5 | | ug/m3 | | 88 | 67 - 127 |
| 1,4-Dioxane | 36 | 31.2 | | ug/m3 | | 87 | 66 - 132 |
| Bromodichloromethane | 67 | 58.1 | | ug/m3 | | 87 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 38.8 | | ug/m3 | | 86 | 70 - 130 |
| methyl isobutyl ketone | 41 | 42.4 | | ug/m3 | | 104 | 62 - 130 |
| Toluene | 38 | 33.3 | | ug/m3 | | 88 | 67 - 127 |
| trans-1,3-Dichloropropene | 45 | 37.1 | | ug/m3 | | 82 | 69 - 129 |
| 1,1,2-Trichloroethane | 55 | 49.2 | | ug/m3 | | 90 | 69 - 129 |
| Tetrachloroethene | 68 | 56.3 | | ug/m3 | | 83 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 44.5 | | ug/m3 | | 108 | 61 - 127 |
| Dibromochloromethane | 85 | 76.3 | | ug/m3 | | 90 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 66.9 | | ug/m3 | | 87 | 70 - 130 |
| Chlorobenzene | 46 | 39.9 | | ug/m3 | | 87 | 68 - 128 |
| Ethylbenzene | 43 | 38.9 | | ug/m3 | | 90 | 68 - 128 |
| m,p-Xylene | 87 | 77.2 | | ug/m3 | | 89 | 68 - 128 |
| Xylene, o- | 43 | 38.3 | | ug/m3 | | 88 | 67 - 127 |
| Styrene | 43 | 38.4 | | ug/m3 | | 90 | 68 - 128 |
| Bromoform | 100 | 99.7 | | ug/m3 | | 96 | 34 - 170 |
| Cumene | 49 | 44.3 | | ug/m3 | | 90 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 63.6 | | ug/m3 | | 93 | 69 - 129 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-119484/3**
**Matrix: Air**
**Analysis Batch: 119484**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 49 | 45.4 | | ug/m3 | | 92 | 67 - 127 |
| 4-Ethyltoluene | 49 | 46.3 | | ug/m3 | | 94 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 45.5 | | ug/m3 | | 93 | 65 - 125 |
| 2-Chlorotoluene | 52 | 48.5 | | ug/m3 | | 94 | 67 - 127 |
| tert-Butylbenzene | 55 | 50.7 | | ug/m3 | | 92 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 46.7 | | ug/m3 | | 95 | 65 - 125 |
| sec-Butylbenzene | 55 | 52.9 | | ug/m3 | | 96 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 52.2 | | ug/m3 | | 95 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 55.7 | | ug/m3 | | 93 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 54.8 | | ug/m3 | | 91 | 66 - 126 |
| Benzyl chloride | 52 | 46.5 | | ug/m3 | | 90 | 54 - 135 |
| n-Butylbenzene | 55 | 55.4 | | ug/m3 | | 101 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 55.5 | | ug/m3 | | 92 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 74 | 55.8 | | ug/m3 | | 75 | 59 - 126 |
| Hexachlorobutadiene | 110 | 92.9 | | ug/m3 | | 87 | 62 - 130 |
| Naphthalene | 52 | 41.2 | | ug/m3 | | 79 | 50 - 121 |

# QC Association Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Air - GC/MS VOA

### Analysis Batch: 119484

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-39611-1 | SS1 | Total/NA | Air | TO-15 | |
| 200-39611-2 | ID1 | Total/NA | Air | TO-15 | |
| 200-39611-3 | SS2 | Total/NA | Air | TO-15 | |
| 200-39611-4 | ID2 | Total/NA | Air | TO-15 | |
| 200-39611-5 | OD1 | Total/NA | Air | TO-15 | |
| MB 200-119484/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-119484/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Client Sample ID: SS1
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**

## Lab Sample ID: 200-39611-1
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 5900 | 119484 | 08/09/17 00:23 | K1P | TAL BUR |

## Client Sample ID: ID1
**Date Collected: 08/03/17 16:40**
**Date Received: 08/05/17 09:30**

## Lab Sample ID: 200-39611-2
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 119484 | 08/08/17 18:30 | K1P | TAL BUR |

## Client Sample ID: SS2
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**

## Lab Sample ID: 200-39611-3
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 736 | 119484 | 08/09/17 01:13 | K1P | TAL BUR |

## Client Sample ID: ID2
**Date Collected: 08/03/17 16:45**
**Date Received: 08/05/17 09:30**

## Lab Sample ID: 200-39611-4
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 119484 | 08/08/17 19:20 | K1P | TAL BUR |

## Client Sample ID: OD1
**Date Collected: 08/03/17 16:50**
**Date Received: 08/05/17 09:30**

## Lab Sample ID: 200-39611-5
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 119484 | 08/08/17 20:10 | K1P | TAL BUR |

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

## Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10391 | 04-01-18 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| TO-15 | | Air | 1,2-Dichloroethene, Total |
| TO-15 | | Air | 4-Ethyltoluene |
| TO-15 | | Air | 4-Isopropyltoluene |
| TO-15 | | Air | Cumene |
| TO-15 | | Air | Freon 22 |
| TO-15 | | Air | Methyl Butyl Ketone (2-Hexanone) |
| TO-15 | | Air | n-Butane |
| TO-15 | | Air | n-Butylbenzene |
| TO-15 | | Air | n-Propylbenzene |
| TO-15 | | Air | sec-Butylbenzene |
| TO-15 | | Air | tert-Butylbenzene |
| TO-15 | | Air | Tetrahydrofuran |

## Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 |

# Method Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL BUR |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-39611-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 200-39611-1 | SS1 | Air | 08/03/17 16:40 | 08/05/17 09:30 |
| 200-39611-2 | ID1 | Air | 08/03/17 16:40 | 08/05/17 09:30 |
| 200-39611-3 | SS2 | Air | 08/03/17 16:45 | 08/05/17 09:30 |
| 200-39611-4 | ID2 | Air | 08/03/17 16:45 | 08/05/17 09:30 |
| 200-39611-5 | OD1 | Air | 08/03/17 16:50 | 08/05/17 09:30 |

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

# Canister Samples Chain of Custody Reco


200-39611 Chain of Custody

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection ar*

| Client Contact Information | Project Manager: Adam Zebrowski | Samples Collected By: Shannon Dalton | 1 of 1 COCs |
|---|---|---|---|
| Company: LaBella Associates | Phone: 716-840-2548 | | |
| Address: 300 Pearl St | Email: azebrowski@labellapc.com | | |
| City/State/Zip Buffalo, New York | | | |
| Phone: 716-710-3043 | Site Contact: | | |
| FAX: | TA Contact: | | |
| Project Name: 11075 Walden Avenue | Analysis Turnaround Time | | |
| Site: 11075 Walden Avenue | X Standard (Specify) | | |
| PO # 271935 | Rush (Specify) | | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, 'Hg (Stop) | Flow Controller ID | Canister ID | TO-15 | MA-APH | EPA 3C | EPA 25C | ASTM D-1946 | Other (Please specify in notes section) | Sample Type | Indoor Air | Ambient Air | Soil Gas | Landfill Gas | Other (Please specify in notes section) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS1 | 8/3/17 | 8:35 | 16:40 | -30 | -6 | 3954 | 3232 | X | | | | | | | | | | | |
| ID1 | 8/3/17 | 8:35 | 16:40 | -31 | -8 | 5000 | 4555 | X | | | | | | | | | | | |
| SS2 | 8/3/17 | 8:42 | 16:45 | -31 | -8 | 3934 | 5052 | X | | | | | | | | | | | |
| ID2 | 8/3/17 | 8:42 | 16:45 | -30 | -8 | 5219 | 2602 | X | | | | | | | | | | | |
| OD1 | 8/3/17 | 8:45 | 16:50 | -30 | -8 | 3408 | 3835 | X | | | | | | | | | | | |

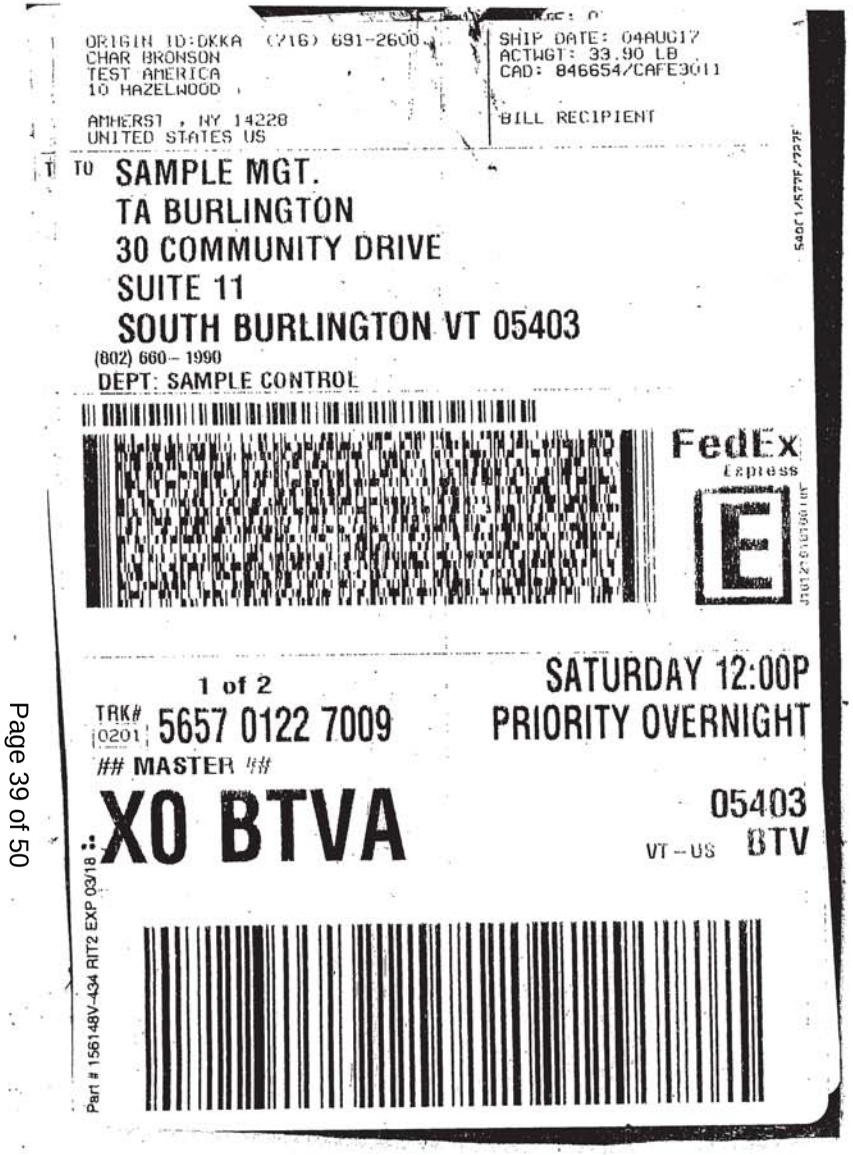
| Temperature (Fahrenheit) | Interior | Ambient | |
|---|---|---|---|
| Start | | | |
| Stop | | | |

| Pressure (inches of Hg) | Interior | Ambient | |
|---|---|---|---|
| Start | | | |
| Stop | | | |

**Special Instructions/QC Requirements & Comments:**

| Samples Shipped by: | Date/Time: | Samples Received by: | |
|---|---|---|---|
| Samples Relinquished by: Shannon Dalton | Date/Time: 8/3/17 / 17:30 | Received by: | 8/3/17 1730 |
| Relinquished by: | Date/Time: | Received by: | 8/5/17 0930 |

**Lab Use Only** Shipper Name: Opened by: Condition:



ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 04AUG17
ACTWGT: 33.90 LB
CAD: 846654/CAFE3011

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
DEPT: SAMPLE CONTROL

FedEx Express

1 of 2

TRK# 0201 5657 0122 7009

## MASTER ##

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 EXP 03/18



ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST , NY 14228
UNITED STATES US

SHIP DATE: 04AUG17
ACTWGT: 8.90 LB
CAD: 846654/CAFE3011

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
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(802) 660-1990
DEPT: SAMPLE CONTROL

FedEx Express

2 of 2

MPS# 0263 5657 0122 7010

Mstr# 5657 0122 7009 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 EXP 03/18

# Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 200-39611-1

**Login Number: 39611**
**List Number: 1**
**Creator: Cota, Fred P**

**List Source: TestAmerica Burlington**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | Not present |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | Thermal preservation not required. |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | Thermal preservation not required. |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | SD |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | # Cycles | Cleaning Date | Technician | Canister Size | | Certification Type: | |
|---|---|---|---|---|---|---|---|
| Bottom Rack | 25 | 7/21/2017 | SML | 1L | 6L | Individual | Batch |

| | | | | | | Initial Reading | | | | | Final Reading | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Gauge: | Date: | Time: | Tech: | Temp: | Gauge: | Date: | Time: | Tech: | Temp: |
| 1 | 4082 | .04 | .07 | .03 | -29.5 | G25 | 8/2/17 | 1240 | — | 23 | G25 | 8/3/17 | 0915 | S— | 23 |
| 2 | 5150 | .04 | .04 | 0 | -29.5 | G25 | 7/22/17 | 1400 | S— | 23 | G25 | 8-1-17 | 1400 | CC | 23 |
| 3 | 4555 | | -.06 | .02 | -29.5 | | | | | | | | | | |
| 4 | 2602 | | .12 | .18 | -29.5 | | | | | | | | | | |
| 5 | 2819 | | .05 | .01 | -29.5 | | | | | | | | | | |
| 6 | 5052 | | .04 | 0 | -29.5 | | | | | | | | | | |
| 7 | 3232 | | .09 | 0 | -29.5 | | | | | | | | | | |
| 8 | 4455 | | .05 | .01 | -29.5 | | | | | | | | | | |
| 9 | 4340 | | -.06 | .02 | -29.5 | | | | | | | | | | |
| 10 | 3835 | | .12 | .08 | -29.5 | | | | | | | | | | |
| 11 | 4323 | | -.06 | -.02 | -29.5 | | | | | | | | | | |
| 12 | 3267 | ✓ | -.07 | .03 | -29.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15**

| | | | | Inventory Level | | | | Secondary Review | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Can ID | Date | Sequence | Analyst | 1 | 2 | 3 | 4 | Limited | Review Date | Reviewer |
| 4082 | 7/27/17 | 26071 | KP | | XXXX | | | | 7/28/17 | PAD |

**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level 4:** Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Comments:**

FAI023:04.26.17:10
TestAmerica Burlington



8/15/2017

200-39421-A-1
4082
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 7/21/2017 12:00 AM 200-1056564

Loc: 200
39421
#1
A

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-39421-1

SDG No.:

Client Sample ID: 4082 Lab Sample ID: 200-39421-1

Matrix: Air Lab File ID: 26071-18.D

Analysis Method: TO-15 Date Collected: 07/21/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 07/27/2017 04:55

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 118994 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 1.0 | U | 1.0 | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.10 |
| 75-45-6 | Freon 22 | 0.10 | U | 0.10 | 0.10 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.10 |
| 106-97-8 | n-Butane | 0.10 | U | 0.10 | 0.10 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.040 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.040 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.10 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.040 | U | 0.040 | 0.040 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.040 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 1.0 |
| 76-13-1 | Freon TF | 0.040 | U | 0.040 | 0.040 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 1.0 |
| 67-63-0 | Isopropyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.10 |
| 107-05-1 | 3-Chloropropene | 0.10 | U | 0.10 | 0.10 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.10 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 110-54-3 | n-Hexane | 0.040 | U | 0.040 | 0.040 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 108-05-4 | Vinyl acetate | 1.0 | U | 1.0 | 1.0 |
| 141-78-6 | Ethyl acetate | 1.0 | U | 1.0 | 1.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.10 | U | 0.10 | 0.10 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.080 | U | 0.080 | 0.080 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.040 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.040 |
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.040 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39421-1

SDG No.:

Client Sample ID: 4082  Lab Sample ID: 200-39421-1

Matrix: Air  Lab File ID: 26071-18.D

Analysis Method: TO-15  Date Collected: 07/21/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 07/27/2017 04:55

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 118994  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.040 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 142-82-5 | n-Heptane | 0.040 | U | 0.040 | 0.040 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.040 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 108-10-1 | methyl isobutyl ketone | 0.10 | U | 0.10 | 0.10 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.040 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.10 | U | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.10 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.040 |
| 1330-20-7 | Xylene (total) | 0.14 | U | 0.14 | 0.14 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.040 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.040 |
| 98-82-8 | Cumene | 0.040 | U | 0.040 | 0.040 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 103-65-1 | n-Propylbenzene | 0.040 | U | 0.040 | 0.040 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.040 |
| 98-06-6 | tert-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 135-98-8 | sec-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 99-87-6 | 4-Isopropyltoluene | 0.040 | U | 0.040 | 0.040 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39421-1

SDG No.:

Client Sample ID: 4082  Lab Sample ID: 200-39421-1

Matrix: Air  Lab File ID: 26071-18.D

Analysis Method: TO-15  Date Collected: 07/21/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 07/27/2017 04:55

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 118994  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 0.040 | U | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.040 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.10 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170726-26071.b\26071-18.D
Lims ID: 200-39421-A-1
Client ID: 4082
Sample Type: Client
Inject. Date: 27-Jul-2017 04:55:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0026071-018
Misc. Info.: 39421-01
Operator ID: pad Instrument ID: CHB.i

Method: \\ChromNA\Burlington\ChromData\CHB.i\20170726-26071.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 28-Jul-2017 08:14:14 Calib Date: 09-Jun-2017 10:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20170608-25406.b\25406-17.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: puangmaleek Date: 28-Jul-2017 08:14:13

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 3.140 | | | | ND | |
| 2 Dichlorodifluoromethane | 85 | | 3.199 | | | | ND | |
| 3 Chlorodifluoromethane | 51 | | 3.236 | | | | ND | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.423 | | | | ND | |
| 5 Chloromethane | 50 | | 3.546 | | | | ND | |
| 6 Butane | 43 | | 3.722 | | | | ND | |
| 7 Vinyl chloride | 62 | | 3.759 | | | | ND | |
| 8 Butadiene | 54 | | 3.823 | | | | ND | |
| 10 Bromomethane | 94 | | 4.496 | | | | ND | |
| 11 Chloroethane | 64 | | 4.725 | | | | ND | |
| 13 Vinyl bromide | 106 | | 5.136 | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 5.237 | | | | ND | |
| 16 Ethanol | 45 | | 5.712 | | | | ND | |
| 19 1,1,2-Trichloro-1,2,2-trif | 101 | | 6.267 | | | | ND | |
| 20 1,1-Dichloroethene | 96 | | 6.337 | | | | ND | |
| 21 Acetone | 43 | | 6.492 | | | | ND | |
| 22 Isopropyl alcohol | 45 | | 6.721 | | | | ND | |
| 23 Carbon disulfide | 76 | | 6.769 | | | | ND | |
| 24 3-Chloro-1-propene | 41 | | 7.041 | | | | ND | |
| 27 Methylene Chloride | 49 | 7.297 | 7.297 | 0.000 | 49 | 3407 | 0.1155 | 7M |
| 28 2-Methyl-2-propanol | 59 | | 7.425 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 7.650 | | | | ND | |
| 30 trans-1,2-Dichloroethene | 61 | | 7.708 | | | | ND | |
| 32 Hexane | 57 | | 8.034 | | | | ND | |
| 33 1,1-Dichloroethane | 63 | | 8.450 | | | | ND | |
| 34 Vinyl acetate | 43 | | 8.456 | | | | ND | |
| 36 2-Butanone (MEK) | 72 | | 9.341 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 9.352 | | | | ND | |
| 35 Ethyl acetate | 88 | | 9.357 | | | | ND | |
| * 39 Chlorobromomethane | 128 | 9.715 | 9.720 | -0.005 | 78 | 279653 | 10.0 | |
| 38 Tetrahydrofuran | 42 | | 9.731 | | | | ND | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 40 Chloroform | 83 | | 9.795 | | | | ND | |
| S | 41 1,2-Dichloroethene, Total | 61 | | 10.000 | | | | ND | |
| | 42 1,1,1-Trichloroethane | 97 | | 10.051 | | | | ND | |
| | 43 Cyclohexane | 84 | | 10.062 | | | | ND | |
| | 44 Carbon tetrachloride | 117 | | 10.259 | | | | ND | |
| | 45 Isooctane | 57 | | 10.542 | | | | ND | |
| | 46 Benzene | 78 | | 10.585 | | | | ND | |
| | 47 1,2-Dichloroethane | 62 | | 10.681 | | | | ND | |
| | 48 n-Heptane | 43 | | 10.793 | | | | ND | |
| * | 50 1,4-Difluorobenzene | 114 | 11.119 | 11.124 | -0.005 | 92 | 1398047 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.492 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 11.866 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 11.898 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 11.989 | | | | ND | |
| | 57 Dibromomethane | 174 | | 12.053 | | | | ND | |
| | 58 Dichlorobromomethane | 83 | | 12.223 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 12.848 | | | | ND | |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 12.997 | | | | ND | |
| | 64 Toluene | 92 | | 13.280 | | | | ND | |
| | 66 trans-1,3-Dichloropropene | 75 | | 13.638 | | | | ND | |
| | 67 1,1,2-Trichloroethane | 83 | | 13.910 | | | | ND | |
| | 68 Tetrachloroethene | 166 | 14.049 | 14.049 | 0.000 | 94 | 4594 | 0.0573 | |
| | 69 2-Hexanone | 43 | | 14.171 | | | | ND | |
| | 70 Chlorodibromomethane | 129 | | 14.465 | | | | ND | |
| | 71 Ethylene Dibromide | 107 | | 14.668 | | | | ND | |
| * | 72 Chlorobenzene-d5 | 117 | 15.223 | 15.228 | -0.005 | 82 | 1168359 | 10.0 | |
| | 73 Chlorobenzene | 112 | | 15.265 | | | | ND | |
| | 74 Ethylbenzene | 91 | | 15.335 | | | | ND | |
| | 76 m-Xylene & p-Xylene | 106 | | 15.479 | | | | ND | |
| | 78 o-Xylene | 106 | | 15.991 | | | | ND | |
| S | 77 Xylenes, Total | 106 | | 16.000 | | | | ND | |
| | 79 Styrene | 104 | | 16.018 | | | | ND | |
| | 80 Bromoform | 173 | | 16.311 | | | | ND | |
| | 81 Isopropylbenzene | 105 | | 16.402 | | | | ND | |
| | 83 1,1,2,2-Tetrachloroethane | 83 | | 16.813 | | | | ND | |
| | 84 N-Propylbenzene | 91 | | 16.882 | | | | ND | |
| | 87 4-Ethyltoluene | 105 | | 17.005 | | | | ND | |
| | 88 2-Chlorotoluene | 91 | | 17.048 | | | | ND | |
| | 89 1,3,5-Trimethylbenzene | 105 | | 17.075 | | | | ND | |
| | 91 tert-Butylbenzene | 119 | | 17.448 | | | | ND | |
| | 92 1,2,4-Trimethylbenzene | 105 | | 17.518 | | | | ND | |
| | 93 sec-Butylbenzene | 105 | | 17.704 | | | | ND | |
| | 94 4-Isopropyltoluene | 119 | | 17.859 | | | | ND | |
| | 95 1,3-Dichlorobenzene | 146 | | 17.939 | | | | ND | |
| | 96 1,4-Dichlorobenzene | 146 | | 18.051 | | | | ND | |
| | 97 Benzyl chloride | 91 | | 18.201 | | | | ND | |
| | 99 n-Butylbenzene | 91 | | 18.366 | | | | ND | |
| | 100 1,2-Dichlorobenzene | 146 | | 18.537 | | | | ND | |
| | 103 1,2,4-Trichlorobenzene | 180 | | 20.901 | | | | ND | |
| | 104 Hexachlorobutadiene | 225 | | 21.067 | | | | ND | |
| | 105 Naphthalene | 128 | | 21.382 | | | | ND | |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

## Reagents:

ATTO15BISs_00006 Amount Added: 20.00 Units: mL Run Reagent

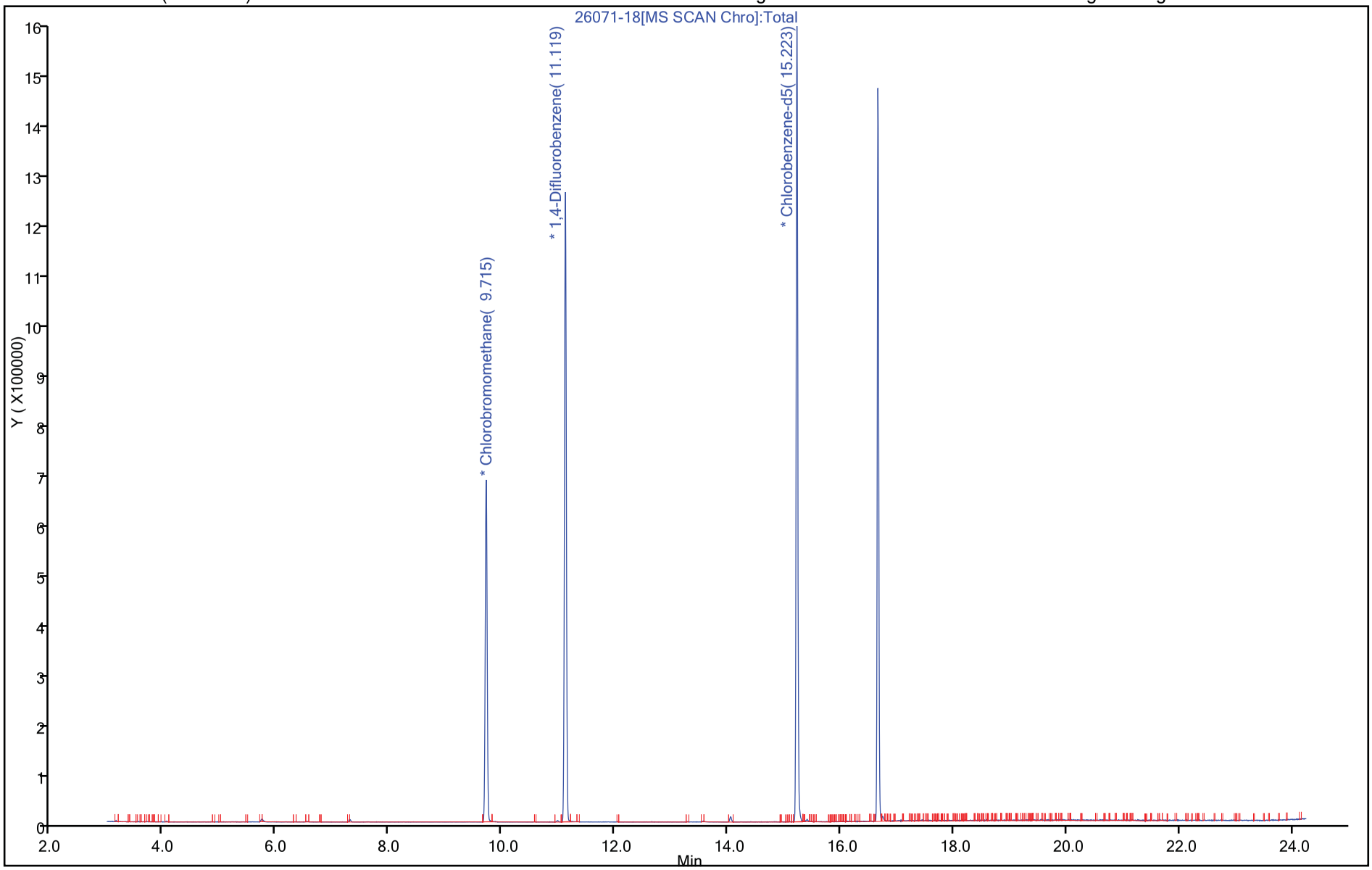
Report Date: 28-Jul-2017 08:14:20 Chrom Revision: 2.2 26-Jun-2017 09:07:56

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170726-26071.b\26071-18.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 27-Jul-2017 04:55:30 | Instrument ID: | CHB.i | Operator ID: | pad |
| Lims ID: | 200-39421-A-1 | Lab Sample ID: | 200-39421-1 | Worklist Smp#: | 18 |
| Client ID: | 4082 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 18 |
| Method: | TO15_LLNJ_TO3 | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Burlington

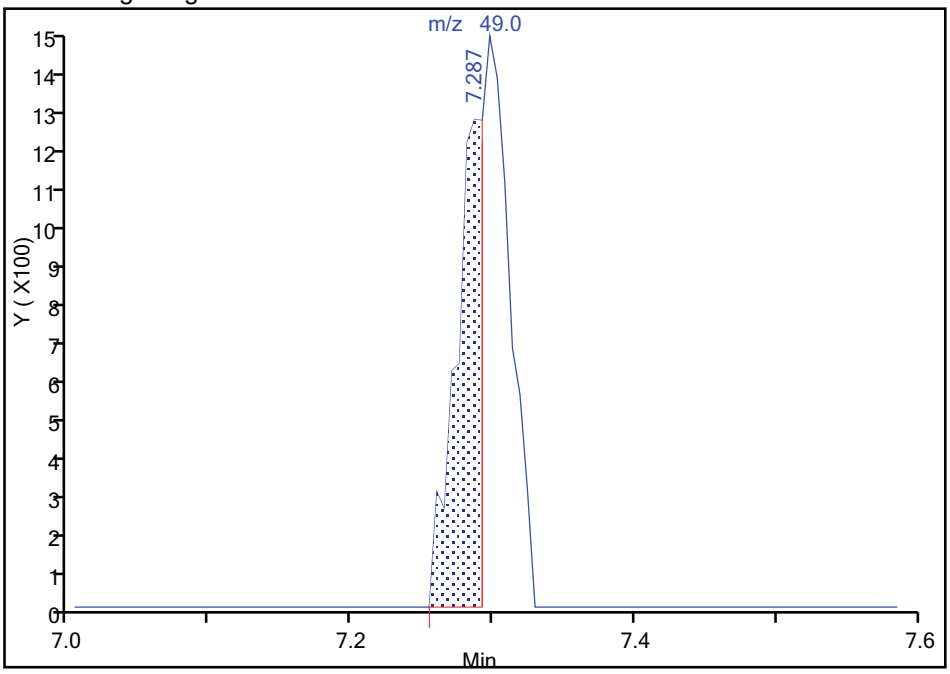
| | | | | | |
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| Injection Date: | 27-Jul-2017 04:55:30 | Instrument ID: | CHB.i | | |
| Lims ID: | 200-39421-A-1 | Lab Sample ID: | 200-39421-1 | | |
| Client ID: | 4082 | | | | |
| Operator ID: | pad | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_LLNJ_TO3 | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

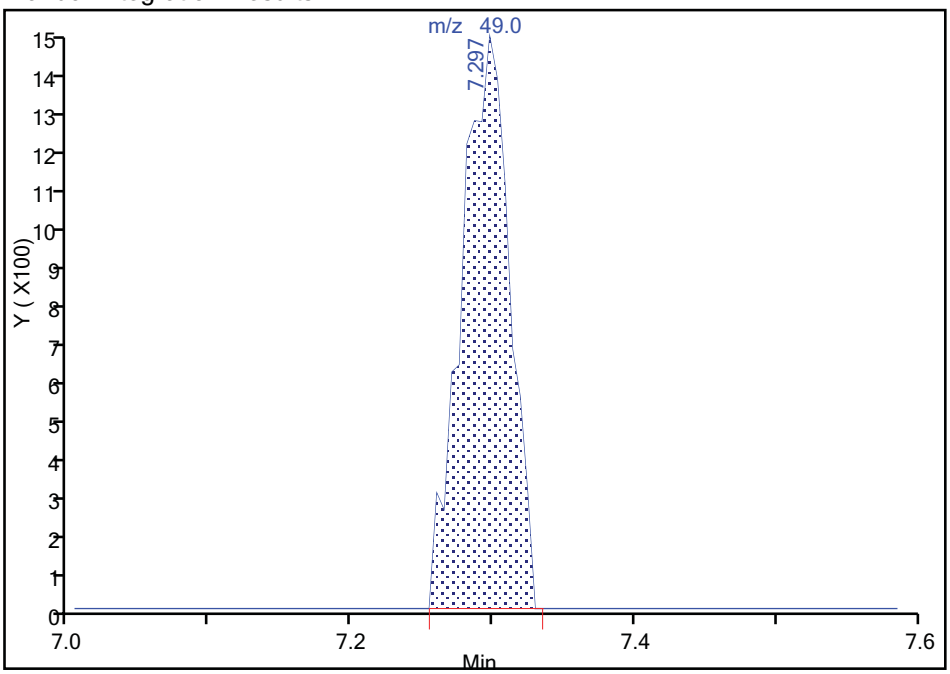
Processing Integration Results

RT: 7.29
Area: 1712
Amount: 0.058044
Amount Units: ppb v/v




Manual Integration Results

RT: 7.30
Area: 3407
Amount: 0.115512
Amount Units: ppb v/v




Reviewer: puangmaleek, 28-Jul-2017 08:12:52
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Burlington

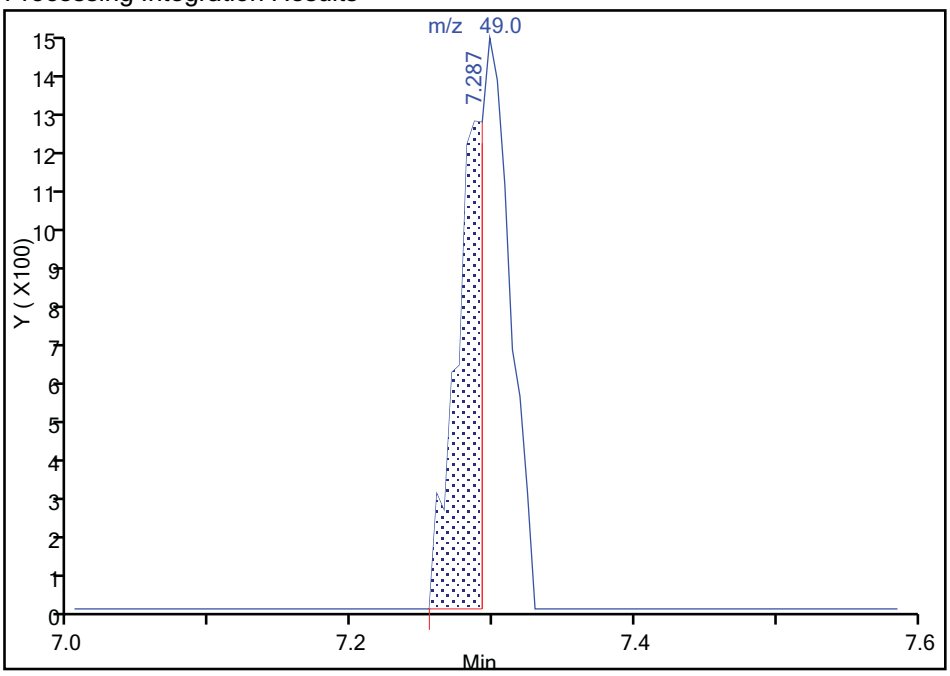
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\ChromNA\Burlington\ChromData\CHB.i\20170726-26071.b\26071-18.D | | | | |
| Injection Date: | 27-Jul-2017 04:55:30 | Instrument ID: | CHB.i | | |
| Lims ID: | 200-39421-A-1 | Lab Sample ID: | 200-39421-1 | | |
| Client ID: | 4082 | | | | |
| Operator ID: | pad | ALS Bottle#: | 18 | Worklist Smp#: | 18 |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | | |
| Method: | TO15_LLNJ_TO3 | Limit Group: | AI_TO15_ICAL | | |
| Column: | RTX-624 ( 0.32 mm) | Detector | MS SCAN | | |

## 27 Methylene Chloride, CAS: 75-09-2

Signal: 1

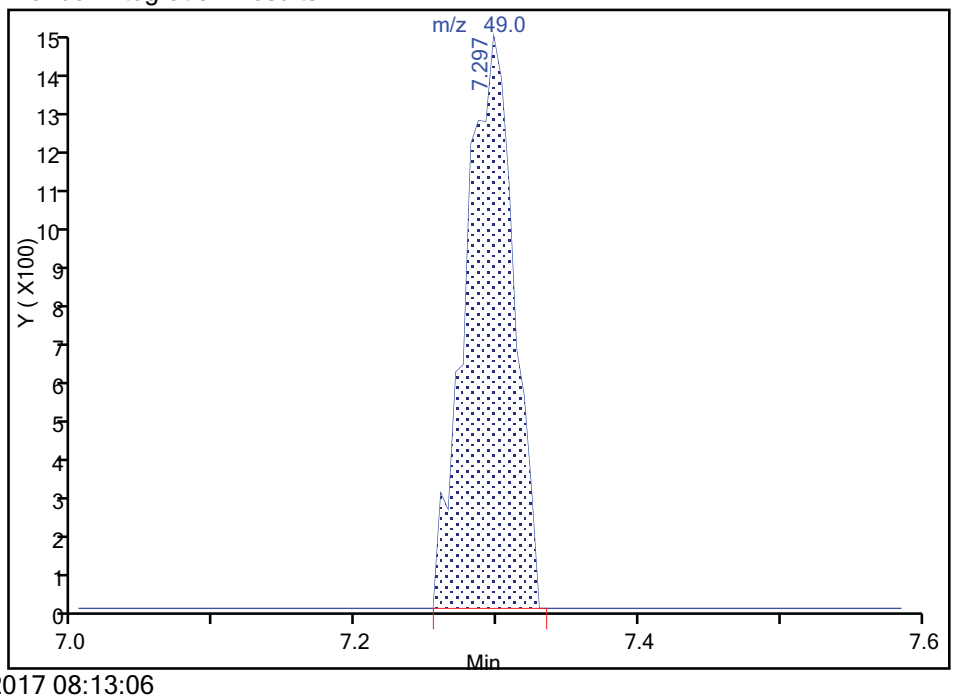
Processing Integration Results

RT: 7.29
Area: 1712
Amount: 0.058044
Amount Units: ppb v/v




Manual Integration Results

RT: 7.30
Area: 3407
Amount: 0.115512
Amount Units: ppb v/v




Reviewer: puangmaleek, 28-Jul-2017 08:13:06

Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-122331-1
Client Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Adam Zebrowski

*Authorized for release by:*
*8/17/2017 5:10:02 PM*
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-122331-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-122331-1**

**Receipt**
The samples were received on 8/8/2017 7:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

**GC/MS VOA**
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-370956 recovered outside acceptance criteria, low biased, for Carbon tetrachloride and 1,1,1-Trichloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples have been impacted: SB-17 0.6-2FT (480-122331-1), SB-18 12-14FT (480-122331-3), SB-19 14-16FT (480-122331-4), SB-20 8-10FT (480-122331-5), SB-21 14-16FT (480-122331-6) and SB-22 4-6FT (480-122331-7).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-370956 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-17 0.6-2FT (480-122331-1), SB-18 12-14FT (480-122331-3), SB-19 14-16FT (480-122331-4), SB-20 8-10FT (480-122331-5), SB-21 14-16FT (480-122331-6) and SB-22 4-6FT (480-122331-7).

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-370979 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples have been impacted: SB-17 0.6-2FT (480-122331-1), SB-18 12-14FT (480-122331-3), SB-19 14-16FT (480-122331-4), SB-20 8-10FT (480-122331-5), SB-21 14-16FT (480-122331-6) and SB-22 4-6FT (480-122331-7).

Method(s) 8260C: The following samples was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-17 0.6-2FT (480-122331-1) and SB-18 12-14FT (480-122331-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SB-17 14-16FT (480-122331-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

## Client Sample ID: SB-17 0.6-2FT — Lab Sample ID: 480-122331-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 120 | | 3.1 | 0.40 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Toluene | 0.28 | J | 3.1 | 0.24 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 0.40 | J | 3.1 | 0.32 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Trichloroethene | 21 | | 3.1 | 0.68 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 130000 | | 4600 | 620 | ug/Kg | 100 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-17 14-16FT — Lab Sample ID: 480-122331-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 540 | J B | 1800 | 360 | ug/Kg | 50 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-18 12-14FT — Lab Sample ID: 480-122331-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 140 | | 68 | 19 | ug/Kg | 2 | ☼ | 8260C | Total/NA |
| Methylene Chloride | 19 | J B | 68 | 13 | ug/Kg | 2 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 2900 | | 68 | 9.2 | ug/Kg | 2 | ☼ | 8260C | Total/NA |
| Trichloroethene | 82 | | 68 | 19 | ug/Kg | 2 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-19 14-16FT — Lab Sample ID: 480-122331-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 9.0 | J | 9.6 | 1.6 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 0.59 | J | 1.9 | 0.26 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-20 8-10FT — Lab Sample ID: 480-122331-5

No Detections.

## Client Sample ID: SB-21 14-16FT — Lab Sample ID: 480-122331-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 6.7 | J | 15 | 2.5 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-22 4-6FT — Lab Sample ID: 480-122331-7

No Detections.

This Detection Summary does not include radiochemical test results.

**Client Sample ID: SB-17 0.6-2FT**
**Date Collected: 08/07/17 08:35**
**Date Received: 08/08/17 19:51**

**Lab Sample ID: 480-122331-1**
**Matrix: Solid**
**Percent Solids: 82.0**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 3.1 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.1 | 0.50 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.1 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | 0.71 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,1-Dichloroethane | ND | | 3.1 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,1-Dichloroethene | ND | | 3.1 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.1 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.1 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.1 | 0.24 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2-Dichloroethane | ND | | 3.1 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2-Dichloropropane | ND | | 3.1 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.1 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.1 | 0.44 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 2-Butanone (MEK) | ND | | 16 | 1.1 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 2-Hexanone | ND | | 16 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 16 | 1.0 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Acetone | ND | | 16 | 2.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Benzene | ND | | 3.1 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Bromodichloromethane | ND | | 3.1 | 0.42 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Bromoform | ND | | 3.1 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Bromomethane | ND | * | 3.1 | 0.28 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Carbon disulfide | ND | | 3.1 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Carbon tetrachloride | ND | | 3.1 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Chlorobenzene | ND | | 3.1 | 0.41 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Dibromochloromethane | ND | | 3.1 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Chloroethane | ND | * | 3.1 | 0.70 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Chloroform | ND | | 3.1 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Chloromethane | ND | | 3.1 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| **cis-1,2-Dichloroethene** | **120** | | 3.1 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.1 | 0.45 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Cyclohexane | ND | | 3.1 | 0.44 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Dichlorodifluoromethane | ND | | 3.1 | 0.26 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Ethylbenzene | ND | | 3.1 | 0.21 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| 1,2-Dibromoethane | ND | | 3.1 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Isopropylbenzene | ND | | 3.1 | 0.47 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Methyl acetate | ND | | 16 | 1.9 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Methyl tert-butyl ether | ND | | 3.1 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Methylcyclohexane | ND | | 3.1 | 0.47 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Methylene Chloride | ND | | 3.1 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Styrene | ND | | 3.1 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| **Toluene** | **0.28** | **J** | 3.1 | 0.24 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| **trans-1,2-Dichloroethene** | **0.40** | **J** | 3.1 | 0.32 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.1 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| **Trichloroethene** | **21** | | 3.1 | 0.68 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Trichlorofluoromethane | ND | | 3.1 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Vinyl chloride | ND | | 3.1 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |
| Xylenes, Total | ND | | 6.2 | 0.52 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 14:48 | 1 |

## Client Sample ID: SB-17 0.6-2FT

**Lab Sample ID: 480-122331-1**

**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 82.0**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *71 - 125* | *08/08/17 02:00* | *08/08/17 14:48* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *64 - 126* | *08/08/17 02:00* | *08/08/17 14:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *72 - 126* | *08/08/17 02:00* | *08/08/17 14:48* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 140* | *08/08/17 02:00* | *08/08/17 14:48* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 130000 | | 4600 | 620 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 17:53 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *110* | | *50 - 149* | *08/10/17 16:22* | *08/16/17 17:53* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *53 - 146* | *08/10/17 16:22* | *08/16/17 17:53* | *100* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *49 - 148* | *08/10/17 16:22* | *08/16/17 17:53* | *100* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 140* | *08/10/17 16:22* | *08/16/17 17:53* | *100* |

## Client Sample ID: SB-17 14-16FT

**Lab Sample ID: 480-122331-2**

**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 87.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1800 | 500 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | | 1800 | 300 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,1,2-Trichloroethane | ND | | 1800 | 380 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1800 | 910 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,1-Dichloroethane | ND | | 1800 | 560 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,1-Dichloroethene | ND | | 1800 | 630 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2,4-Trichlorobenzene | ND | | 1800 | 690 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1800 | 910 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2-Dichlorobenzene | ND | | 1800 | 460 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2-Dichloroethane | ND | | 1800 | 740 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2-Dichloropropane | ND | | 1800 | 300 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,3-Dichlorobenzene | ND | | 1800 | 490 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,4-Dichlorobenzene | ND | | 1800 | 250 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 2-Butanone (MEK) | ND | | 9100 | 5400 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 2-Hexanone | ND | | 9100 | 3700 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 9100 | 580 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Acetone | ND | | 9100 | 7500 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Benzene | ND | | 1800 | 350 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Bromodichloromethane | ND | | 1800 | 360 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Bromoform | ND | | 1800 | 910 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Bromomethane | ND | | 1800 | 400 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Carbon disulfide | ND | | 1800 | 830 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Carbon tetrachloride | ND | | 1800 | 460 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Chlorobenzene | ND | | 1800 | 240 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Dibromochloromethane | ND | | 1800 | 880 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Chloroethane | ND | | 1800 | 380 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Chloroform | ND | | 1800 | 1200 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Chloromethane | ND | | 1800 | 430 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| cis-1,2-Dichloroethene | ND | | 1800 | 500 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| cis-1,3-Dichloropropene | ND | | 1800 | 440 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |

## Client Sample ID: SB-17 14-16FT

**Lab Sample ID: 480-122331-2**
**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 87.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyclohexane | ND | | 1800 | 400 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Dichlorodifluoromethane | ND | | 1800 | 790 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Ethylbenzene | ND | | 1800 | 530 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| 1,2-Dibromoethane | ND | | 1800 | 320 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Isopropylbenzene | ND | | 1800 | 270 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Methyl acetate | ND | | 9100 | 870 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Methyl tert-butyl ether | ND | | 1800 | 690 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Methylcyclohexane | ND | | 1800 | 850 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| **Methylene Chloride** | **540** | **J B** | 1800 | 360 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Styrene | ND | | 1800 | 440 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Tetrachloroethene | ND | | 1800 | 240 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Toluene | ND | | 1800 | 490 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| trans-1,2-Dichloroethene | ND | | 1800 | 430 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| trans-1,3-Dichloropropene | ND | | 1800 | 180 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Trichloroethene | ND | | 1800 | 510 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Trichlorofluoromethane | ND | | 1800 | 850 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Vinyl chloride | ND | | 1800 | 610 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |
| Xylenes, Total | ND | | 3600 | 1000 | ug/Kg | ☼ | 08/13/17 14:56 | 08/16/17 16:05 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *111* | | *50 - 149* | *08/13/17 14:56* | *08/16/17 16:05* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *53 - 146* | *08/13/17 14:56* | *08/16/17 16:05* | *50* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *49 - 148* | *08/13/17 14:56* | *08/16/17 16:05* | *50* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 140* | *08/13/17 14:56* | *08/16/17 16:05* | *50* |

## Client Sample ID: SB-18 12-14FT

**Lab Sample ID: 480-122331-3**
**Date Collected: 08/07/17 09:45**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 88.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 68 | 19 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 68 | 11 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,1,2-Trichloroethane | ND | | 68 | 14 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 68 | 34 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,1-Dichloroethane | ND | | 68 | 21 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,1-Dichloroethene | ND | | 68 | 24 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 68 | 26 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 68 | 34 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2-Dichlorobenzene | ND | | 68 | 17 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2-Dichloroethane | ND | | 68 | 28 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2-Dichloropropane | ND | | 68 | 11 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,3-Dichlorobenzene | ND | | 68 | 18 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,4-Dichlorobenzene | ND | | 68 | 9.5 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 2-Butanone (MEK) | ND | | 340 | 200 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 2-Hexanone | ND | | 340 | 140 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 340 | 22 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Acetone | ND | | 340 | 280 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Benzene | ND | | 68 | 13 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Bromodichloromethane | ND | | 68 | 14 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |

## Client Sample ID: SB-18 12-14FT

**Lab Sample ID: 480-122331-3**
**Date Collected: 08/07/17 09:45**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 88.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | | 68 | 34 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Bromomethane | ND | | 68 | 15 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Carbon disulfide | ND | | 68 | 31 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Carbon tetrachloride | ND | | 68 | 17 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Chlorobenzene | ND | | 68 | 9.0 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Dibromochloromethane | ND | | 68 | 33 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Chloroethane | ND | | 68 | 14 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Chloroform | ND | | 68 | 47 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Chloromethane | ND | | 68 | 16 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| **cis-1,2-Dichloroethene** | **140** | | 68 | 19 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| cis-1,3-Dichloropropene | ND | | 68 | 16 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Cyclohexane | ND | | 68 | 15 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Dichlorodifluoromethane | ND | | 68 | 30 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Ethylbenzene | ND | | 68 | 20 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| 1,2-Dibromoethane | ND | | 68 | 12 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Isopropylbenzene | ND | | 68 | 10 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Methyl acetate | ND | | 340 | 32 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Methyl tert-butyl ether | ND | | 68 | 26 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Methylcyclohexane | ND | | 68 | 32 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| **Methylene Chloride** | **19** | **J B** | 68 | 13 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Styrene | ND | | 68 | 16 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| **Tetrachloroethene** | **2900** | | 68 | 9.2 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Toluene | ND | | 68 | 18 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| trans-1,2-Dichloroethene | ND | | 68 | 16 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| trans-1,3-Dichloropropene | ND | | 68 | 6.7 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| **Trichloroethene** | **82** | | 68 | 19 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Trichlorofluoromethane | ND | | 68 | 32 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Vinyl chloride | ND | | 68 | 23 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |
| Xylenes, Total | ND | | 140 | 38 | ug/Kg | ☼ | 08/10/17 16:22 | 08/16/17 18:20 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *114* | | *50 - 149* | *08/10/17 16:22* | *08/16/17 18:20* | *2* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *53 - 146* | *08/10/17 16:22* | *08/16/17 18:20* | *2* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *49 - 148* | *08/10/17 16:22* | *08/16/17 18:20* | *2* |
| *Dibromofluoromethane (Surr)* | *98* | | *60 - 140* | *08/10/17 16:22* | *08/16/17 18:20* | *2* |

## Client Sample ID: SB-19 14-16FT

**Lab Sample ID: 480-122331-4**
**Date Collected: 08/07/17 13:40**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 85.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1.9 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.9 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.9 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.9 | 0.44 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,1-Dichloroethane | ND | | 1.9 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,1-Dichloroethene | ND | | 1.9 | 0.24 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.9 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.9 | 0.96 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |

**Client Sample ID: SB-19 14-16FT**
**Date Collected: 08/07/17 13:40**
**Date Received: 08/08/17 19:51**

**Lab Sample ID: 480-122331-4**
**Matrix: Solid**
**Percent Solids: 85.6**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 1.9 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,2-Dichloroethane | ND | | 1.9 | 0.097 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,2-Dichloropropane | ND | | 1.9 | 0.96 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.9 | 0.099 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.9 | 0.27 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 2-Butanone (MEK) | ND | | 9.6 | 0.70 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 2-Hexanone | ND | | 9.6 | 0.96 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 9.6 | 0.63 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| **Acetone** | **9.0** | **J** | 9.6 | 1.6 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Benzene | ND | | 1.9 | 0.094 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Bromodichloromethane | ND | | 1.9 | 0.26 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Bromoform | ND | | 1.9 | 0.96 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Bromomethane | ND | * | 1.9 | 0.17 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Carbon disulfide | ND | | 1.9 | 0.96 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Carbon tetrachloride | ND | | 1.9 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Chlorobenzene | ND | | 1.9 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Dibromochloromethane | ND | | 1.9 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Chloroethane | ND | * | 1.9 | 0.43 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Chloroform | ND | | 1.9 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Chloromethane | ND | | 1.9 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.9 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.9 | 0.28 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Cyclohexane | ND | | 1.9 | 0.27 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Dichlorodifluoromethane | ND | | 1.9 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Ethylbenzene | ND | | 1.9 | 0.13 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| 1,2-Dibromoethane | ND | | 1.9 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Isopropylbenzene | ND | | 1.9 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Methyl acetate | ND | | 9.6 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Methyl tert-butyl ether | ND | | 1.9 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Methylcyclohexane | ND | | 1.9 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Methylene Chloride | ND | | 1.9 | 0.89 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Styrene | ND | | 1.9 | 0.096 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| **Tetrachloroethene** | **0.59** | **J** | 1.9 | 0.26 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Toluene | ND | | 1.9 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.9 | 0.20 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.9 | 0.85 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Trichloroethene | ND | | 1.9 | 0.42 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Trichlorofluoromethane | ND | | 1.9 | 0.18 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Vinyl chloride | ND | | 1.9 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |
| Xylenes, Total | ND | | 3.8 | 0.32 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *107* | | *71 - 125* | *08/08/17 02:00* | *08/08/17 16:05* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *64 - 126* | *08/08/17 02:00* | *08/08/17 16:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *72 - 126* | *08/08/17 02:00* | *08/08/17 16:05* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 140* | *08/08/17 02:00* | *08/08/17 16:05* | *1* |

**Client Sample ID: SB-20 8-10FT**
**Date Collected: 08/07/17 15:05**
**Date Received: 08/08/17 19:51**

**Lab Sample ID: 480-122331-5**
**Matrix: Solid**
**Percent Solids: 88.1**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.3 | 0.17 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.3 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.3 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.3 | 0.53 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,1-Dichloroethane | ND | | 2.3 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,1-Dichloroethene | ND | | 2.3 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.3 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.3 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.3 | 0.18 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2-Dichloroethane | ND | | 2.3 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2-Dichloropropane | ND | | 2.3 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.3 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.3 | 0.33 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 2-Butanone (MEK) | ND | | 12 | 0.86 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 2-Hexanone | ND | | 12 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 12 | 0.77 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Acetone | ND | | 12 | 2.0 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Benzene | ND | | 2.3 | 0.11 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Bromodichloromethane | ND | | 2.3 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Bromoform | ND | | 2.3 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Bromomethane | ND | * | 2.3 | 0.21 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Carbon disulfide | ND | | 2.3 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Carbon tetrachloride | ND | | 2.3 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Chlorobenzene | ND | | 2.3 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Dibromochloromethane | ND | | 2.3 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Chloroethane | ND | * | 2.3 | 0.53 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Chloroform | ND | | 2.3 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Chloromethane | ND | | 2.3 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 2.3 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.3 | 0.34 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Cyclohexane | ND | | 2.3 | 0.33 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Dichlorodifluoromethane | ND | | 2.3 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Ethylbenzene | ND | | 2.3 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| 1,2-Dibromoethane | ND | | 2.3 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Isopropylbenzene | ND | | 2.3 | 0.35 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Methyl acetate | ND | | 12 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Methyl tert-butyl ether | ND | | 2.3 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Methylcyclohexane | ND | | 2.3 | 0.36 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Methylene Chloride | ND | | 2.3 | 1.1 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Styrene | ND | | 2.3 | 0.12 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Tetrachloroethene | ND | | 2.3 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Toluene | ND | | 2.3 | 0.18 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.3 | 0.24 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.3 | 1.0 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Trichloroethene | ND | | 2.3 | 0.52 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Trichlorofluoromethane | ND | | 2.3 | 0.22 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Vinyl chloride | ND | | 2.3 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |
| Xylenes, Total | ND | | 4.7 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:30 | 1 |

## Client Sample ID: SB-20 8-10FT

**Lab Sample ID: 480-122331-5**

**Date Collected: 08/07/17 15:05**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 88.1**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *101* | | *71 - 125* | *08/08/17 02:00* | *08/08/17 16:30* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 126* | *08/08/17 02:00* | *08/08/17 16:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *72 - 126* | *08/08/17 02:00* | *08/08/17 16:30* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 140* | *08/08/17 02:00* | *08/08/17 16:30* | *1* |

## Client Sample ID: SB-21 14-16FT

**Lab Sample ID: 480-122331-6**

**Date Collected: 08/07/17 16:00**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 81.2**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 3.0 | 0.22 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.0 | 0.49 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.0 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.0 | 0.69 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,1-Dichloroethane | ND | | 3.0 | 0.37 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,1-Dichloroethene | ND | | 3.0 | 0.37 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.0 | 0.18 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.0 | 1.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.0 | 0.24 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2-Dichloroethane | ND | | 3.0 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2-Dichloropropane | ND | | 3.0 | 1.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.0 | 0.16 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.0 | 0.42 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 2-Butanone (MEK) | ND | | 15 | 1.1 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 2-Hexanone | ND | | 15 | 1.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 15 | 0.99 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| **Acetone** | **6.7** | **J** | 15 | 2.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Benzene | ND | | 3.0 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Bromodichloromethane | ND | | 3.0 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Bromoform | ND | | 3.0 | 1.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Bromomethane | ND | * | 3.0 | 0.27 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Carbon disulfide | ND | | 3.0 | 1.5 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Carbon tetrachloride | ND | | 3.0 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Chlorobenzene | ND | | 3.0 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Dibromochloromethane | ND | | 3.0 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Chloroethane | ND | * | 3.0 | 0.68 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Chloroform | ND | | 3.0 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Chloromethane | ND | | 3.0 | 0.18 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.0 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.0 | 0.43 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Cyclohexane | ND | | 3.0 | 0.42 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Dichlorodifluoromethane | ND | | 3.0 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Ethylbenzene | ND | | 3.0 | 0.21 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| 1,2-Dibromoethane | ND | | 3.0 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Isopropylbenzene | ND | | 3.0 | 0.45 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Methyl acetate | ND | | 15 | 1.8 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Methyl tert-butyl ether | ND | | 3.0 | 0.30 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Methylcyclohexane | ND | | 3.0 | 0.46 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Methylene Chloride | ND | | 3.0 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |

## Client Sample ID: SB-21 14-16FT

**Date Collected: 08/07/17 16:00**
**Date Received: 08/08/17 19:51**

## Lab Sample ID: 480-122331-6

**Matrix: Solid**
**Percent Solids: 81.2**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 3.0 | 0.15 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Tetrachloroethene | ND | | 3.0 | 0.40 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Toluene | ND | | 3.0 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.0 | 0.31 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.0 | 1.3 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Trichloroethene | ND | | 3.0 | 0.66 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Trichlorofluoromethane | ND | | 3.0 | 0.29 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Vinyl chloride | ND | | 3.0 | 0.37 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |
| Xylenes, Total | ND | | 6.0 | 0.51 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *71 - 125* | *08/08/17 02:00* | *08/08/17 16:55* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 126* | *08/08/17 02:00* | *08/08/17 16:55* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *72 - 126* | *08/08/17 02:00* | *08/08/17 16:55* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 140* | *08/08/17 02:00* | *08/08/17 16:55* | *1* |

## Client Sample ID: SB-22 4-6FT

**Date Collected: 08/07/17 17:35**
**Date Received: 08/08/17 19:51**

## Lab Sample ID: 480-122331-7

**Matrix: Solid**
**Percent Solids: 87.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | 0.20 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | 0.44 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | 0.36 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.7 | 0.62 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,1-Dichloroethane | ND | | 2.7 | 0.33 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,1-Dichloroethene | ND | | 2.7 | 0.34 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.7 | 0.17 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.7 | 0.21 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2-Dichloroethane | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2-Dichloropropane | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.7 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 2-Butanone (MEK) | ND | | 14 | 1.0 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 2-Hexanone | ND | | 14 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 14 | 0.90 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Acetone | ND | | 14 | 2.3 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Benzene | ND | | 2.7 | 0.13 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Bromodichloromethane | ND | | 2.7 | 0.37 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Bromoform | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Bromomethane | ND | * | 2.7 | 0.25 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Carbon disulfide | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Carbon tetrachloride | ND | | 2.7 | 0.27 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Chlorobenzene | ND | | 2.7 | 0.36 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Dibromochloromethane | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Chloroethane | ND | * | 2.7 | 0.62 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Chloroform | ND | | 2.7 | 0.17 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Chloromethane | ND | | 2.7 | 0.17 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

**Client Sample ID: SB-22 4-6FT**
**Date Collected: 08/07/17 17:35**
**Date Received: 08/08/17 19:51**

**Lab Sample ID: 480-122331-7**
**Matrix: Solid**
**Percent Solids: 87.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.7 | 0.39 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Cyclohexane | ND | | 2.7 | 0.38 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Dichlorodifluoromethane | ND | | 2.7 | 0.23 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Ethylbenzene | ND | | 2.7 | 0.19 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| 1,2-Dibromoethane | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Isopropylbenzene | ND | | 2.7 | 0.41 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Methyl acetate | ND | | 14 | 1.7 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Methyl tert-butyl ether | ND | | 2.7 | 0.27 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Methylcyclohexane | ND | | 2.7 | 0.42 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Methylene Chloride | ND | | 2.7 | 1.3 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Styrene | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Tetrachloroethene | ND | | 2.7 | 0.37 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Toluene | ND | | 2.7 | 0.21 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.7 | 0.28 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.7 | 1.2 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Trichloroethene | ND | | 2.7 | 0.60 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Trichlorofluoromethane | ND | | 2.7 | 0.26 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Vinyl chloride | ND | | 2.7 | 0.33 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |
| Xylenes, Total | ND | | 5.5 | 0.46 | ug/Kg | ☼ | 08/08/17 02:00 | 08/08/17 17:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *71 - 125* | *08/08/17 02:00* | *08/08/17 17:21* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 126* | *08/08/17 02:00* | *08/08/17 17:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *72 - 126* | *08/08/17 02:00* | *08/08/17 17:21* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *60 - 140* | *08/08/17 02:00* | *08/08/17 17:21* | *1* |

# Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TOL | 12DCE | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (71-125) | (64-126) | (72-126) | (60-140) |
| 480-122331-1 | SB-17 0.6-2FT | 96 | 106 | 86 | 100 |
| 480-122331-4 | SB-19 14-16FT | 107 | 111 | 85 | 105 |
| 480-122331-5 | SB-20 8-10FT | 101 | 109 | 85 | 103 |
| 480-122331-6 | SB-21 14-16FT | 98 | 109 | 87 | 101 |
| 480-122331-7 | SB-22 4-6FT | 97 | 108 | 87 | 100 |
| LCS 480-370979/17-A | Lab Control Sample | 99 | 102 | 92 | 101 |
| MB 480-370979/2-A | Method Blank | 97 | 102 | 89 | 98 |

**Surrogate Legend**

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TOL | 12DCE | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (50-149) | (53-146) | (49-148) | (60-140) |
| 480-122331-1 - DL | SB-17 0.6-2FT | 110 | 93 | 99 | 100 |
| 480-122331-2 | SB-17 14-16FT | 111 | 101 | 105 | 106 |
| 480-122331-3 | SB-18 12-14FT | 114 | 90 | 100 | 98 |
| LCS 480-371600/1-A | Lab Control Sample | 113 | 105 | 105 | 110 |
| LCS 480-371903/1-A | Lab Control Sample | 113 | 104 | 103 | 110 |
| MB 480-371600/2-A | Method Blank | 110 | 97 | 101 | 94 |
| MB 480-371903/13-A | Method Blank | 112 | 103 | 104 | 104 |

**Surrogate Legend**

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-370979/2-A**
**Matrix: Solid**
**Analysis Batch: 370956**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 370979**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.36 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.81 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.65 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.61 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.30 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.39 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.25 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.26 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.70 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 2-Butanone (MEK) | ND | | 25 | 1.8 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 2-Hexanone | ND | | 25 | 2.5 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 1.6 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Acetone | ND | | 25 | 4.2 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.67 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Bromomethane | ND | | 5.0 | 0.45 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Carbon disulfide | ND | | 5.0 | 2.5 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.48 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.64 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Chloroethane | ND | | 5.0 | 1.1 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Chloroform | ND | | 5.0 | 0.31 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Chloromethane | ND | | 5.0 | 0.30 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.64 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.72 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Cyclohexane | ND | | 5.0 | 0.70 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.41 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.35 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.64 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.75 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Methyl acetate | ND | | 25 | 3.0 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.49 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.76 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Methylene Chloride | ND | | 5.0 | 2.3 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Styrene | ND | | 5.0 | 0.25 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.67 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Toluene | ND | | 5.0 | 0.38 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.52 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 2.2 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Trichloroethene | ND | | 5.0 | 1.1 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.47 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.61 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Xylenes, Total | ND | | 10 | 0.84 | ug/Kg | | 08/08/17 09:03 | 08/08/17 11:28 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | 97 | | 71 - 125 | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 64 - 126 | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| 4-Bromofluorobenzene (Surr) | 89 | | 72 - 126 | 08/08/17 09:03 | 08/08/17 11:28 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 60 - 140 | 08/08/17 09:03 | 08/08/17 11:28 | 1 |

**Lab Sample ID: LCS 480-370979/17-A**
**Matrix: Solid**
**Analysis Batch: 370956**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 370979**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 50.0 | 43.6 | | ug/Kg | | 87 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 50.5 | | ug/Kg | | 101 | 80 - 120 |
| 1,1,2-Trichloroethane | 50.0 | 47.9 | | ug/Kg | | 96 | 78 - 122 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 44.2 | | ug/Kg | | 88 | 60 - 140 |
| 1,1-Dichloroethane | 50.0 | 49.4 | | ug/Kg | | 99 | 73 - 126 |
| 1,1-Dichloroethene | 50.0 | 46.5 | | ug/Kg | | 93 | 59 - 125 |
| 1,2,4-Trichlorobenzene | 50.0 | 46.1 | | ug/Kg | | 92 | 64 - 120 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 45.8 | | ug/Kg | | 92 | 63 - 124 |
| 1,2-Dichlorobenzene | 50.0 | 47.4 | | ug/Kg | | 95 | 75 - 120 |
| 1,2-Dichloroethane | 50.0 | 47.8 | | ug/Kg | | 96 | 77 - 122 |
| 1,2-Dichloropropane | 50.0 | 48.6 | | ug/Kg | | 97 | 75 - 124 |
| 1,3-Dichlorobenzene | 50.0 | 48.0 | | ug/Kg | | 96 | 74 - 120 |
| 1,4-Dichlorobenzene | 50.0 | 48.1 | | ug/Kg | | 96 | 73 - 120 |
| 2-Butanone (MEK) | 250 | 233 | | ug/Kg | | 93 | 70 - 134 |
| 2-Hexanone | 250 | 241 | | ug/Kg | | 96 | 59 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 243 | | ug/Kg | | 97 | 65 - 133 |
| Acetone | 250 | 198 | | ug/Kg | | 79 | 61 - 137 |
| Benzene | 50.0 | 48.4 | | ug/Kg | | 97 | 79 - 127 |
| Bromodichloromethane | 50.0 | 49.5 | | ug/Kg | | 99 | 80 - 122 |
| Bromoform | 50.0 | 38.1 | | ug/Kg | | 76 | 68 - 126 |
| Bromomethane | 50.0 | 80.9 | * | ug/Kg | | 162 | 37 - 149 |
| Carbon disulfide | 50.0 | 42.8 | | ug/Kg | | 86 | 64 - 131 |
| Carbon tetrachloride | 50.0 | 41.5 | | ug/Kg | | 83 | 75 - 135 |
| Chlorobenzene | 50.0 | 46.4 | | ug/Kg | | 93 | 76 - 124 |
| Dibromochloromethane | 50.0 | 41.9 | | ug/Kg | | 84 | 76 - 125 |
| Chloroethane | 50.0 | 78.7 | * | ug/Kg | | 157 | 69 - 135 |
| Chloroform | 50.0 | 48.5 | | ug/Kg | | 97 | 80 - 120 |
| Chloromethane | 50.0 | 49.7 | | ug/Kg | | 99 | 63 - 127 |
| cis-1,2-Dichloroethene | 50.0 | 49.2 | | ug/Kg | | 98 | 81 - 120 |
| cis-1,3-Dichloropropene | 50.0 | 46.9 | | ug/Kg | | 94 | 80 - 120 |
| Cyclohexane | 50.0 | 43.3 | | ug/Kg | | 87 | 65 - 120 |
| Dichlorodifluoromethane | 50.0 | 35.8 | | ug/Kg | | 72 | 57 - 142 |
| Ethylbenzene | 50.0 | 48.2 | | ug/Kg | | 96 | 80 - 120 |
| 1,2-Dibromoethane | 50.0 | 47.2 | | ug/Kg | | 94 | 78 - 120 |
| Isopropylbenzene | 50.0 | 48.0 | | ug/Kg | | 96 | 72 - 120 |
| Methyl acetate | 250 | 237 | | ug/Kg | | 95 | 55 - 136 |
| Methyl tert-butyl ether | 50.0 | 48.5 | | ug/Kg | | 97 | 63 - 125 |
| Methylcyclohexane | 50.0 | 42.6 | | ug/Kg | | 85 | 60 - 140 |
| Methylene Chloride | 50.0 | 51.1 | | ug/Kg | | 102 | 61 - 127 |
| Styrene | 50.0 | 46.9 | | ug/Kg | | 94 | 80 - 120 |
| Tetrachloroethene | 50.0 | 44.2 | | ug/Kg | | 88 | 74 - 122 |
| Toluene | 50.0 | 46.4 | | ug/Kg | | 93 | 74 - 128 |
| trans-1,2-Dichloroethene | 50.0 | 48.2 | | ug/Kg | | 96 | 78 - 126 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-370979/17-A**
**Matrix: Solid**
**Analysis Batch: 370956**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 370979**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 50.0 | 46.5 | | ug/Kg | | 93 | 73 - 123 |
| Trichloroethene | 50.0 | 46.6 | | ug/Kg | | 93 | 77 - 129 |
| Trichlorofluoromethane | 50.0 | 51.4 | | ug/Kg | | 103 | 65 - 146 |
| Vinyl chloride | 50.0 | 50.8 | | ug/Kg | | 102 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *71 - 125* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 140* |

**Lab Sample ID: MB 480-371600/2-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 371600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-371600/2-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 371600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Methylene Chloride | 33.8 | J | 100 | 20 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 08/10/17 16:22 | 08/16/17 13:10 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *110* | | *50 - 149* | *08/10/17 16:22* | *08/16/17 13:10* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *53 - 146* | *08/10/17 16:22* | *08/16/17 13:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *49 - 148* | *08/10/17 16:22* | *08/16/17 13:10* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *60 - 140* | *08/10/17 16:22* | *08/16/17 13:10* | *1* |

**Lab Sample ID: LCS 480-371600/1-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 371600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2610 | | ug/Kg | | 105 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2290 | | ug/Kg | | 92 | 73 - 120 |
| 1,1,2-Trichloroethane | 2500 | 2450 | | ug/Kg | | 98 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2670 | | ug/Kg | | 107 | 10 - 179 |
| 1,1-Dichloroethane | 2500 | 2360 | | ug/Kg | | 95 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2890 | | ug/Kg | | 115 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2490 | | ug/Kg | | 100 | 70 - 140 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 1760 | | ug/Kg | | 70 | 56 - 122 |
| 1,2-Dichlorobenzene | 2500 | 2410 | | ug/Kg | | 97 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2200 | | ug/Kg | | 88 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2640 | | ug/Kg | | 106 | 80 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2540 | | ug/Kg | | 102 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2400 | | ug/Kg | | 96 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 10100 | | ug/Kg | | 81 | 54 - 149 |
| 2-Hexanone | 12500 | 10600 | | ug/Kg | | 85 | 59 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 10700 | | ug/Kg | | 86 | 74 - 120 |
| Acetone | 12500 | 8620 | | ug/Kg | | 69 | 47 - 141 |
| Benzene | 2500 | 2630 | | ug/Kg | | 105 | 77 - 125 |
| Bromodichloromethane | 2500 | 2420 | | ug/Kg | | 97 | 71 - 121 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-371600/1-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 371600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromoform | 2500 | 1730 | | ug/Kg | | 69 | 48 - 125 |
| Bromomethane | 2500 | 2220 | | ug/Kg | | 89 | 39 - 149 |
| Carbon disulfide | 2500 | 2420 | | ug/Kg | | 97 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2660 | | ug/Kg | | 107 | 54 - 135 |
| Chlorobenzene | 2500 | 2470 | | ug/Kg | | 99 | 76 - 126 |
| Dibromochloromethane | 2500 | 2520 | | ug/Kg | | 101 | 64 - 120 |
| Chloroethane | 2500 | 1560 | | ug/Kg | | 63 | 23 - 150 |
| Chloroform | 2500 | 2320 | | ug/Kg | | 93 | 78 - 120 |
| Chloromethane | 2500 | 2180 | | ug/Kg | | 87 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2550 | | ug/Kg | | 102 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2970 | | ug/Kg | | 119 | 75 - 121 |
| Cyclohexane | 2500 | 2470 | | ug/Kg | | 99 | 49 - 129 |
| Dichlorodifluoromethane | 2500 | 2820 | | ug/Kg | | 113 | 10 - 150 |
| Ethylbenzene | 2500 | 2480 | | ug/Kg | | 99 | 78 - 124 |
| 1,2-Dibromoethane | 2500 | 2520 | | ug/Kg | | 101 | 80 - 120 |
| Isopropylbenzene | 2500 | 2860 | | ug/Kg | | 114 | 76 - 120 |
| Methyl acetate | 12500 | 9720 | | ug/Kg | | 78 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2450 | | ug/Kg | | 98 | 67 - 137 |
| Methylcyclohexane | 2500 | 2680 | | ug/Kg | | 107 | 50 - 130 |
| Methylene Chloride | 2500 | 2320 | | ug/Kg | | 93 | 75 - 118 |
| Styrene | 2500 | 2640 | | ug/Kg | | 106 | 80 - 120 |
| Tetrachloroethene | 2500 | 2620 | | ug/Kg | | 105 | 73 - 133 |
| Toluene | 2500 | 2660 | | ug/Kg | | 106 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2480 | | ug/Kg | | 99 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2750 | | ug/Kg | | 110 | 73 - 120 |
| Trichloroethene | 2500 | 2730 | | ug/Kg | | 109 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 2370 | | ug/Kg | | 95 | 29 - 158 |
| Vinyl chloride | 2500 | 2530 | | ug/Kg | | 101 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *113* | | *50 - 149* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *110* | | *60 - 140* |

**Lab Sample ID: MB 480-371903/13-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 371903**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-371903/13-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 371903**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Methylene Chloride | 32.6 | J | 100 | 20 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 08/13/17 14:56 | 08/16/17 12:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *112* | | *50 - 149* | *08/13/17 14:56* | *08/16/17 12:42* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *53 - 146* | *08/13/17 14:56* | *08/16/17 12:42* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *49 - 148* | *08/13/17 14:56* | *08/16/17 12:42* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 140* | *08/13/17 14:56* | *08/16/17 12:42* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-371903/1-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 371903**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2480 | | ug/Kg | | 99 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2220 | | ug/Kg | | 89 | 73 - 120 |
| 1,1,2-Trichloroethane | 2500 | 2330 | | ug/Kg | | 93 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2450 | | ug/Kg | | 98 | 10 - 179 |
| 1,1-Dichloroethane | 2500 | 2260 | | ug/Kg | | 91 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2440 | | ug/Kg | | 98 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2470 | | ug/Kg | | 99 | 70 - 140 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 1630 | | ug/Kg | | 65 | 56 - 122 |
| 1,2-Dichlorobenzene | 2500 | 2370 | | ug/Kg | | 95 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2130 | | ug/Kg | | 85 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2470 | | ug/Kg | | 99 | 80 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2420 | | ug/Kg | | 97 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2330 | | ug/Kg | | 93 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 9870 | | ug/Kg | | 79 | 54 - 149 |
| 2-Hexanone | 12500 | 9930 | | ug/Kg | | 79 | 59 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 10700 | | ug/Kg | | 86 | 74 - 120 |
| Acetone | 12500 | 8430 | | ug/Kg | | 67 | 47 - 141 |
| Benzene | 2500 | 2530 | | ug/Kg | | 101 | 77 - 125 |
| Bromodichloromethane | 2500 | 2380 | | ug/Kg | | 95 | 71 - 121 |
| Bromoform | 2500 | 1690 | | ug/Kg | | 68 | 48 - 125 |
| Bromomethane | 2500 | 2300 | | ug/Kg | | 92 | 39 - 149 |
| Carbon disulfide | 2500 | 2380 | | ug/Kg | | 95 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2410 | | ug/Kg | | 97 | 54 - 135 |
| Chlorobenzene | 2500 | 2360 | | ug/Kg | | 94 | 76 - 126 |
| Dibromochloromethane | 2500 | 2440 | | ug/Kg | | 98 | 64 - 120 |
| Chloroethane | 2500 | 1550 | | ug/Kg | | 62 | 23 - 150 |
| Chloroform | 2500 | 2230 | | ug/Kg | | 89 | 78 - 120 |
| Chloromethane | 2500 | 2150 | | ug/Kg | | 86 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2420 | | ug/Kg | | 97 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2710 | | ug/Kg | | 108 | 75 - 121 |
| Cyclohexane | 2500 | 2380 | | ug/Kg | | 95 | 49 - 129 |
| Dichlorodifluoromethane | 2500 | 2560 | | ug/Kg | | 103 | 10 - 150 |
| Ethylbenzene | 2500 | 2410 | | ug/Kg | | 96 | 78 - 124 |
| 1,2-Dibromoethane | 2500 | 2370 | | ug/Kg | | 95 | 80 - 120 |
| Isopropylbenzene | 2500 | 2820 | | ug/Kg | | 113 | 76 - 120 |
| Methyl acetate | 12500 | 9330 | | ug/Kg | | 75 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2380 | | ug/Kg | | 95 | 67 - 137 |
| Methylcyclohexane | 2500 | 2500 | | ug/Kg | | 100 | 50 - 130 |
| Methylene Chloride | 2500 | 2290 | | ug/Kg | | 91 | 75 - 118 |
| Styrene | 2500 | 2450 | | ug/Kg | | 98 | 80 - 120 |
| Tetrachloroethene | 2500 | 2490 | | ug/Kg | | 100 | 73 - 133 |
| Toluene | 2500 | 2550 | | ug/Kg | | 102 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2430 | | ug/Kg | | 97 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2690 | | ug/Kg | | 108 | 73 - 120 |
| Trichloroethene | 2500 | 2630 | | ug/Kg | | 105 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 2320 | | ug/Kg | | 93 | 29 - 158 |
| Vinyl chloride | 2500 | 2450 | | ug/Kg | | 98 | 59 - 124 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-371903/1-A**
**Matrix: Solid**
**Analysis Batch: 372356**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 371903**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 113 | | 50 - 149 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 53 - 146 |
| 4-Bromofluorobenzene (Surr) | 103 | | 49 - 148 |
| Dibromofluoromethane (Surr) | 110 | | 60 - 140 |

## GC/MS VOA

### Analysis Batch: 370956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-1 | SB-17 0.6-2FT | Total/NA | Solid | 8260C | 370979 |
| 480-122331-4 | SB-19 14-16FT | Total/NA | Solid | 8260C | 370979 |
| 480-122331-5 | SB-20 8-10FT | Total/NA | Solid | 8260C | 370979 |
| 480-122331-6 | SB-21 14-16FT | Total/NA | Solid | 8260C | 370979 |
| 480-122331-7 | SB-22 4-6FT | Total/NA | Solid | 8260C | 370979 |
| MB 480-370979/2-A | Method Blank | Total/NA | Solid | 8260C | 370979 |
| LCS 480-370979/17-A | Lab Control Sample | Total/NA | Solid | 8260C | 370979 |

### Prep Batch: 370979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-1 | SB-17 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-122331-4 | SB-19 14-16FT | Total/NA | Solid | 5035A_L | |
| 480-122331-5 | SB-20 8-10FT | Total/NA | Solid | 5035A_L | |
| 480-122331-6 | SB-21 14-16FT | Total/NA | Solid | 5035A_L | |
| 480-122331-7 | SB-22 4-6FT | Total/NA | Solid | 5035A_L | |
| MB 480-370979/2-A | Method Blank | Total/NA | Solid | 5035A_L | |
| LCS 480-370979/17-A | Lab Control Sample | Total/NA | Solid | 5035A_L | |

### Prep Batch: 371600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-1 - DL | SB-17 0.6-2FT | Total/NA | Solid | 5035A_H | |
| 480-122331-3 | SB-18 12-14FT | Total/NA | Solid | 5035A_H | |
| MB 480-371600/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-371600/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Prep Batch: 371903

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-2 | SB-17 14-16FT | Total/NA | Solid | 5035A_H | |
| MB 480-371903/13-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-371903/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 372356

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-1 - DL | SB-17 0.6-2FT | Total/NA | Solid | 8260C | 371600 |
| 480-122331-2 | SB-17 14-16FT | Total/NA | Solid | 8260C | 371903 |
| 480-122331-3 | SB-18 12-14FT | Total/NA | Solid | 8260C | 371600 |
| MB 480-371600/2-A | Method Blank | Total/NA | Solid | 8260C | 371600 |
| MB 480-371903/13-A | Method Blank | Total/NA | Solid | 8260C | 371903 |
| LCS 480-371600/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 371600 |
| LCS 480-371903/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 371903 |

## General Chemistry

### Analysis Batch: 371107

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-1 | SB-17 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-122331-2 | SB-17 14-16FT | Total/NA | Solid | Moisture | |
| 480-122331-3 | SB-18 12-14FT | Total/NA | Solid | Moisture | |
| 480-122331-4 | SB-19 14-16FT | Total/NA | Solid | Moisture | |
| 480-122331-5 | SB-20 8-10FT | Total/NA | Solid | Moisture | |

## General Chemistry (Continued)

### Analysis Batch: 371107 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-122331-6 | SB-21 14-16FT | Total/NA | Solid | Moisture | |
| 480-122331-7 | SB-22 4-6FT | Total/NA | Solid | Moisture | |

## Client Sample ID: SB-17 0.6-2FT
**Lab Sample ID: 480-122331-1**
**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-17 0.6-2FT
**Lab Sample ID: 480-122331-1**
**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 82.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 370979 | 08/08/17 02:00 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 370956 | 08/08/17 14:48 | AMM | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 371600 | 08/10/17 16:22 | NEA | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 100 | 372356 | 08/16/17 17:53 | ARS | TAL BUF |

## Client Sample ID: SB-17 14-16FT
**Lab Sample ID: 480-122331-2**
**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-17 14-16FT
**Lab Sample ID: 480-122331-2**
**Date Collected: 08/07/17 08:35**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 87.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 371903 | 08/13/17 14:56 | NEA | TAL BUF |
| Total/NA | Analysis | 8260C | | 50 | 372356 | 08/16/17 16:05 | ARS | TAL BUF |

## Client Sample ID: SB-18 12-14FT
**Lab Sample ID: 480-122331-3**
**Date Collected: 08/07/17 09:45**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-18 12-14FT
**Lab Sample ID: 480-122331-3**
**Date Collected: 08/07/17 09:45**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 88.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_H | | | 371600 | 08/10/17 16:22 | NEA | TAL BUF |
| Total/NA | Analysis | 8260C | | 2 | 372356 | 08/16/17 18:20 | ARS | TAL BUF |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

## Client Sample ID: SB-19 14-16FT
**Lab Sample ID: 480-122331-4**
**Date Collected: 08/07/17 13:40**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-19 14-16FT
**Lab Sample ID: 480-122331-4**
**Date Collected: 08/07/17 13:40**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 85.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 370979 | 08/08/17 02:00 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 370956 | 08/08/17 16:05 | AMM | TAL BUF |

## Client Sample ID: SB-20 8-10FT
**Lab Sample ID: 480-122331-5**
**Date Collected: 08/07/17 15:05**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-20 8-10FT
**Lab Sample ID: 480-122331-5**
**Date Collected: 08/07/17 15:05**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 88.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 370979 | 08/08/17 02:00 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 370956 | 08/08/17 16:30 | AMM | TAL BUF |

## Client Sample ID: SB-21 14-16FT
**Lab Sample ID: 480-122331-6**
**Date Collected: 08/07/17 16:00**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-21 14-16FT
**Lab Sample ID: 480-122331-6**
**Date Collected: 08/07/17 16:00**
**Matrix: Solid**
**Date Received: 08/08/17 19:51**
**Percent Solids: 81.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 370979 | 08/08/17 02:00 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 370956 | 08/08/17 16:55 | AMM | TAL BUF |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

## Client Sample ID: SB-22 4-6FT

**Lab Sample ID: 480-122331-7**

**Date Collected: 08/07/17 17:35**

**Matrix: Solid**

**Date Received: 08/08/17 19:51**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 371107 | 08/08/17 14:41 | AMM | TAL BUF |

## Client Sample ID: SB-22 4-6FT

**Lab Sample ID: 480-122331-7**

**Date Collected: 08/07/17 17:35**

**Matrix: Solid**

**Date Received: 08/08/17 19:51**

**Percent Solids: 87.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 370979 | 08/08/17 02:00 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 370956 | 08/08/17 17:21 | AMM | TAL BUF |

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: LaBella Associates DPC
TestAmerica Job ID: 480-122331-1
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-122331-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-122331-1 | SB-17 0.6-2FT | Solid | 08/07/17 08:35 | 08/08/17 19:51 |
| 480-122331-2 | SB-17 14-16FT | Solid | 08/07/17 08:35 | 08/08/17 19:51 |
| 480-122331-3 | SB-18 12-14FT | Solid | 08/07/17 09:45 | 08/08/17 19:51 |
| 480-122331-4 | SB-19 14-16FT | Solid | 08/07/17 13:40 | 08/08/17 19:51 |
| 480-122331-5 | SB-20 8-10FT | Solid | 08/07/17 15:05 | 08/08/17 19:51 |
| 480-122331-6 | SB-21 14-16FT | Solid | 08/07/17 16:00 | 08/08/17 19:51 |
| 480-122331-7 | SB-22 4-6FT | Solid | 08/07/17 17:35 | 08/08/17 19:51 |

**TestAmerica Buffalo**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-122331 COC

| Client Information | Sampler: Shannon Dalton | Lab PM: Deyo, Melissa L | Ca | COC No: 480-100691-23963.2 |
|---|---|---|---|---|
| Client Contact: Shannon Dalton | Phone: 716-710-3043 | E-Mail: melissa.deyo@testamericainc.com | | Page: Page 2 of 2 |
| Company: LaBella Associates DPC | | | | Job #: |
| Address: 300 Pearl Street Suite 130 | Due Date Requested: | | | |
| City: Buffalo | TAT Requested (days): Standard | | | |
| State, Zip: NY, 14202 | | | | |
| Phone: 716-768-3184(Tel) | PO #: Purchase Order not required | | | |
| Email: SDalton@LaBellaPC.com | WO #: | | | |
| Project Name: Phase 2 - 11075 Walden Avenue, Alden, NY | Project #: 48016502 | | | |
| Site: 11075 Walden Ave | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

| | |
|---|---|
| A - HCL | M - Hexane |
| B - NaOH | N - None |
| C - Zn Acetate | O - AsNaO2 |
| D - Nitric Acid | P - Na2O4S |
| E - NaHSO4 | Q - Na2SO3 |
| F - MeOH | R - Na2S2O3 |
| G - Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T - TSP Dodecahydrate |
| I - Ice | U - Acetone |
| J - DI Water | V - MCAA |
| K - EDTA | W - pH 4-5 |
| L - EDA | Z - other (specify) |

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | TO15 - Routine TO15 (all74) | 8260C - TCL VOCs | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | | |
| SB-17 0.6-2ft | 8/7/17 | 8:35 | G | Solid | | | | X | | |
| SB-17 14-16ft | 8/7/17 | 8:35 | G | Solid | | | | X | | |
| SB-18 12-14ft | 8/7/17 | 9:45 | G | Solid | | | | X | | |
| SB-19 14-16ft | 8/7/17 | 13:40 | G | Solid | | | | X | | |
| SB-20 8-10ft | 8/7/17 | 15:05 | G | Solid | | | | X | | |
| SB-21 14-16ft | 8/7/17 | 16:00 | G | Solid | | | | X | | |
| SB-22 4-6ft | 8/7/17 | 17:35 | G | Solid | | | | X | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: Shannon Dalton | 8/7 / 19:45 | | Received by: | 8/7 19:51 | TA |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2 #1

# Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-122331-1

**Login Number: 122331**
**List Number: 1**
**Creator: Williams, Christopher S**

**List Source: TestAmerica Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | FREEZER ON 08AUG2017 @ 0200 |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | LA BELLA |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-40374-1
Client Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Adam Zebrowski

*Authorized for release by:*
*10/17/2017 4:35:03 PM*
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 200-40374-1

### Laboratory: TestAmerica Burlington

**Narrative**

**Job Narrative**
**200-40374-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 10/6/2017 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

**Receipt Exceptions**
During the canister pressure check performed upon receipt, it was observed that the following sample was received at an elevated residual vacuum level: OD2 (200-40374-7). The associated flow controller was evaluated upon receipt and was found to be outside the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with the analysis with the addition of makeup air.

**Air Toxics**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Client Sample ID: SS3

## Lab Sample ID: 200-40374-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.56 | J | 1.0 | 0.094 | ppb v/v | 2 | | TO-15 | Total/NA |
| Freon 22 | 1.0 | | 1.0 | 0.40 | ppb v/v | 2 | | TO-15 | Total/NA |
| Chloromethane | 0.54 | J | 1.0 | 0.32 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Butane | 45 | | 1.0 | 0.092 | ppb v/v | 2 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.26 | J | 0.40 | 0.062 | ppb v/v | 2 | | TO-15 | Total/NA |
| Freon TF | 0.085 | J | 0.40 | 0.054 | ppb v/v | 2 | | TO-15 | Total/NA |
| Acetone | 43 | | 10 | 2.6 | ppb v/v | 2 | | TO-15 | Total/NA |
| Isopropyl alcohol | 3.2 | J | 10 | 0.26 | ppb v/v | 2 | | TO-15 | Total/NA |
| Carbon disulfide | 0.96 | J | 1.0 | 0.056 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methylene Chloride | 0.16 | J | 1.0 | 0.14 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Hexane | 11 | | 0.40 | 0.092 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 5.9 | | 1.0 | 0.22 | ppb v/v | 2 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.1 | | 0.40 | 0.058 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 1.1 | | 0.80 | 0.058 | ppb v/v | 2 | | TO-15 | Total/NA |
| Chloroform | 0.11 | J | 0.40 | 0.050 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.080 | J | 0.40 | 0.052 | ppb v/v | 2 | | TO-15 | Total/NA |
| Cyclohexane | 3.3 | | 0.40 | 0.090 | ppb v/v | 2 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.071 | J | 0.40 | 0.022 | ppb v/v | 2 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.25 | J | 0.40 | 0.086 | ppb v/v | 2 | | TO-15 | Total/NA |
| Benzene | 2.2 | | 0.40 | 0.056 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Heptane | 7.1 | | 0.40 | 0.14 | ppb v/v | 2 | | TO-15 | Total/NA |
| Trichloroethene | 0.60 | | 0.40 | 0.018 | ppb v/v | 2 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 1.8 | | 1.0 | 0.13 | ppb v/v | 2 | | TO-15 | Total/NA |
| Toluene | 4.5 | | 0.40 | 0.070 | ppb v/v | 2 | | TO-15 | Total/NA |
| Tetrachloroethene | 11 | | 0.40 | 0.020 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 1.3 | | 1.0 | 0.17 | ppb v/v | 2 | | TO-15 | Total/NA |
| Ethylbenzene | 0.48 | | 0.40 | 0.068 | ppb v/v | 2 | | TO-15 | Total/NA |
| m,p-Xylene | 2.6 | | 1.0 | 0.15 | ppb v/v | 2 | | TO-15 | Total/NA |
| Xylene, o- | 0.83 | | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| Xylene (total) | 3.4 | | 1.4 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| Styrene | 0.17 | J | 0.40 | 0.070 | ppb v/v | 2 | | TO-15 | Total/NA |
| Cumene | 0.17 | J | 0.40 | 0.078 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Propylbenzene | 0.22 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.30 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.34 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.78 | | 0.40 | 0.11 | ppb v/v | 2 | | TO-15 | Total/NA |
| Naphthalene | 0.21 | J | 1.0 | 0.20 | ppb v/v | 2 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.8 | J | 4.9 | 0.46 | ug/m3 | 2 | | TO-15 | Total/NA |
| Freon 22 | 3.7 | | 3.5 | 1.4 | ug/m3 | 2 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | J | 2.1 | 0.66 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Butane | 110 | | 2.4 | 0.22 | ug/m3 | 2 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.5 | J | 2.2 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Freon TF | 0.65 | J | 3.1 | 0.41 | ug/m3 | 2 | | TO-15 | Total/NA |
| Acetone | 100 | | 24 | 6.2 | ug/m3 | 2 | | TO-15 | Total/NA |
| Isopropyl alcohol | 7.8 | J | 25 | 0.64 | ug/m3 | 2 | | TO-15 | Total/NA |
| Carbon disulfide | 3.0 | J | 3.1 | 0.17 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methylene Chloride | 0.55 | J | 3.5 | 0.47 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Hexane | 37 | | 1.4 | 0.32 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 17 | | 2.9 | 0.65 | ug/m3 | 2 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Client Sample ID: SS3 (Continued) — Lab Sample ID: 200-40374-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 4.2 | | 1.6 | 0.23 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 4.4 | | 3.2 | 0.23 | ug/m3 | 2 | | TO-15 | Total/NA |
| Chloroform | 0.52 | J | 2.0 | 0.24 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.43 | J | 2.2 | 0.28 | ug/m3 | 2 | | TO-15 | Total/NA |
| Cyclohexane | 11 | | 1.4 | 0.31 | ug/m3 | 2 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.45 | J | 2.5 | 0.14 | ug/m3 | 2 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 1.2 | J | 1.9 | 0.40 | ug/m3 | 2 | | TO-15 | Total/NA |
| Benzene | 7.2 | | 1.3 | 0.18 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Heptane | 29 | | 1.6 | 0.56 | ug/m3 | 2 | | TO-15 | Total/NA |
| Trichloroethene | 3.2 | | 2.1 | 0.098 | ug/m3 | 2 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 7.3 | | 4.1 | 0.53 | ug/m3 | 2 | | TO-15 | Total/NA |
| Toluene | 17 | | 1.5 | 0.26 | ug/m3 | 2 | | TO-15 | Total/NA |
| Tetrachloroethene | 72 | | 2.7 | 0.13 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 5.3 | | 4.1 | 0.70 | ug/m3 | 2 | | TO-15 | Total/NA |
| Ethylbenzene | 2.1 | | 1.7 | 0.30 | ug/m3 | 2 | | TO-15 | Total/NA |
| m,p-Xylene | 11 | | 4.3 | 0.67 | ug/m3 | 2 | | TO-15 | Total/NA |
| Xylene, o- | 3.6 | | 1.7 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Xylene (total) | 15 | | 6.1 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Styrene | 0.72 | J | 1.7 | 0.30 | ug/m3 | 2 | | TO-15 | Total/NA |
| Cumene | 0.83 | J | 2.0 | 0.38 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Propylbenzene | 1.1 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.5 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 1.7 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 3.8 | | 2.0 | 0.56 | ug/m3 | 2 | | TO-15 | Total/NA |
| Naphthalene | 1.1 | J | 5.2 | 1.0 | ug/m3 | 2 | | TO-15 | Total/NA |

## Client Sample ID: ID3 — Lab Sample ID: 200-40374-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.48 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 0.83 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.44 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 13 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.24 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.076 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 4.1 | J | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.49 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.13 | J | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.11 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.50 | | 0.20 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 0.48 | J | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.4 | | 0.20 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 1.4 | | 0.40 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.050 | J | 0.20 | 0.045 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.066 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.050 | J | 0.20 | 0.043 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.096 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.13 | J | 0.20 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.59 | | 0.20 | 0.0091 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.30 | | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID3 (Continued) — Lab Sample ID: 200-40374-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 3.2 | | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.044 | J | 0.20 | 0.034 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.15 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.070 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.22 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.071 | J | 0.20 | 0.057 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.095 | J | 0.20 | 0.063 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.4 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 2.9 | | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.92 | J | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 32 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.4 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.58 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 9.8 | J | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 1.2 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.41 | J | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.37 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.7 | | 0.70 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.4 | J | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 5.6 | | 0.79 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 5.6 | | 1.6 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.17 | J | 0.69 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.41 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.24 | J | 0.93 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.31 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.53 | J | 0.82 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.2 | | 1.1 | 0.049 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 1.1 | | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 22 | | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.19 | J | 0.87 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.67 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.30 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.96 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.35 | J | 0.98 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.57 | J | 1.2 | 0.38 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SS4 — Lab Sample ID: 200-40374-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.51 | J | 1.0 | 0.094 | ppb v/v | 2 | | TO-15 | Total/NA |
| Freon 22 | 1.1 | | 1.0 | 0.40 | ppb v/v | 2 | | TO-15 | Total/NA |
| Chloromethane | 0.47 | J | 1.0 | 0.32 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Butane | 43 | | 1.0 | 0.092 | ppb v/v | 2 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.23 | J | 0.40 | 0.062 | ppb v/v | 2 | | TO-15 | Total/NA |
| Freon TF | 0.076 | J | 0.40 | 0.054 | ppb v/v | 2 | | TO-15 | Total/NA |
| Acetone | 37 | | 10 | 2.6 | ppb v/v | 2 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.98 | J | 10 | 0.26 | ppb v/v | 2 | | TO-15 | Total/NA |
| Carbon disulfide | 1.1 | | 1.0 | 0.056 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methylene Chloride | 0.16 | J | 1.0 | 0.14 | ppb v/v | 2 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SS4 (Continued)

## Lab Sample ID: 200-40374-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 11 | | 0.40 | 0.092 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 6.3 | | 1.0 | 0.22 | ppb v/v | 2 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.87 | | 0.40 | 0.058 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 0.87 | | 0.80 | 0.058 | ppb v/v | 2 | | TO-15 | Total/NA |
| Chloroform | 0.16 | J | 0.40 | 0.050 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.089 | J | 0.40 | 0.052 | ppb v/v | 2 | | TO-15 | Total/NA |
| Cyclohexane | 4.7 | | 0.40 | 0.090 | ppb v/v | 2 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.054 | J | 0.40 | 0.022 | ppb v/v | 2 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.31 | J | 0.40 | 0.086 | ppb v/v | 2 | | TO-15 | Total/NA |
| Benzene | 2.3 | | 0.40 | 0.056 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Heptane | 6.7 | | 0.40 | 0.14 | ppb v/v | 2 | | TO-15 | Total/NA |
| Trichloroethene | 0.61 | | 0.40 | 0.018 | ppb v/v | 2 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 1.9 | | 1.0 | 0.13 | ppb v/v | 2 | | TO-15 | Total/NA |
| Toluene | 6.0 | | 0.40 | 0.070 | ppb v/v | 2 | | TO-15 | Total/NA |
| Tetrachloroethene | 4.5 | | 0.40 | 0.020 | ppb v/v | 2 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 1.3 | | 1.0 | 0.17 | ppb v/v | 2 | | TO-15 | Total/NA |
| Ethylbenzene | 0.59 | | 0.40 | 0.068 | ppb v/v | 2 | | TO-15 | Total/NA |
| m,p-Xylene | 2.3 | | 1.0 | 0.15 | ppb v/v | 2 | | TO-15 | Total/NA |
| Xylene, o- | 0.80 | | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| Xylene (total) | 3.1 | | 1.4 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| Styrene | 0.16 | J | 0.40 | 0.070 | ppb v/v | 2 | | TO-15 | Total/NA |
| Cumene | 0.21 | J | 0.40 | 0.078 | ppb v/v | 2 | | TO-15 | Total/NA |
| n-Propylbenzene | 0.18 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.26 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.27 | J | 0.40 | 0.080 | ppb v/v | 2 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.75 | | 0.40 | 0.11 | ppb v/v | 2 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | J | 4.9 | 0.46 | ug/m3 | 2 | | TO-15 | Total/NA |
| Freon 22 | 3.7 | | 3.5 | 1.4 | ug/m3 | 2 | | TO-15 | Total/NA |
| Chloromethane | 0.97 | J | 2.1 | 0.66 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Butane | 100 | | 2.4 | 0.22 | ug/m3 | 2 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.3 | J | 2.2 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Freon TF | 0.58 | J | 3.1 | 0.41 | ug/m3 | 2 | | TO-15 | Total/NA |
| Acetone | 87 | | 24 | 6.2 | ug/m3 | 2 | | TO-15 | Total/NA |
| Isopropyl alcohol | 2.4 | J | 25 | 0.64 | ug/m3 | 2 | | TO-15 | Total/NA |
| Carbon disulfide | 3.5 | | 3.1 | 0.17 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methylene Chloride | 0.57 | J | 3.5 | 0.47 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Hexane | 38 | | 1.4 | 0.32 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 18 | | 2.9 | 0.65 | ug/m3 | 2 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 3.5 | | 1.6 | 0.23 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 3.4 | | 3.2 | 0.23 | ug/m3 | 2 | | TO-15 | Total/NA |
| Chloroform | 0.80 | J | 2.0 | 0.24 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.48 | J | 2.2 | 0.28 | ug/m3 | 2 | | TO-15 | Total/NA |
| Cyclohexane | 16 | | 1.4 | 0.31 | ug/m3 | 2 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.34 | J | 2.5 | 0.14 | ug/m3 | 2 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 1.5 | J | 1.9 | 0.40 | ug/m3 | 2 | | TO-15 | Total/NA |
| Benzene | 7.5 | | 1.3 | 0.18 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Heptane | 28 | | 1.6 | 0.56 | ug/m3 | 2 | | TO-15 | Total/NA |
| Trichloroethene | 3.3 | | 2.1 | 0.098 | ug/m3 | 2 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 7.9 | | 4.1 | 0.53 | ug/m3 | 2 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Client Sample ID: SS4 (Continued) — Lab Sample ID: 200-40374-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 23 | | 1.5 | 0.26 | ug/m3 | 2 | | TO-15 | Total/NA |
| Tetrachloroethene | 30 | | 2.7 | 0.13 | ug/m3 | 2 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 5.2 | | 4.1 | 0.70 | ug/m3 | 2 | | TO-15 | Total/NA |
| Ethylbenzene | 2.6 | | 1.7 | 0.30 | ug/m3 | 2 | | TO-15 | Total/NA |
| m,p-Xylene | 10 | | 4.3 | 0.67 | ug/m3 | 2 | | TO-15 | Total/NA |
| Xylene, o- | 3.5 | | 1.7 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Xylene (total) | 13 | | 6.1 | 0.35 | ug/m3 | 2 | | TO-15 | Total/NA |
| Styrene | 0.68 | J | 1.7 | 0.30 | ug/m3 | 2 | | TO-15 | Total/NA |
| Cumene | 1.0 | J | 2.0 | 0.38 | ug/m3 | 2 | | TO-15 | Total/NA |
| n-Propylbenzene | 0.89 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.3 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 1.3 | J | 2.0 | 0.39 | ug/m3 | 2 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 3.7 | | 2.0 | 0.56 | ug/m3 | 2 | | TO-15 | Total/NA |

## Client Sample ID: ID4 — Lab Sample ID: 200-40374-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 0.91 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.49 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 15 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.25 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.078 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 7.6 | | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.31 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.13 | J | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.088 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.52 | | 0.20 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.2 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 1.4 | | 0.20 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 1.4 | | 0.40 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.026 | J | 0.20 | 0.026 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.057 | J | 0.20 | 0.045 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.072 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.047 | J | 0.20 | 0.043 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.11 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.14 | J | 0.20 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.65 | | 0.20 | 0.0091 | ppb v/v | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 0.14 | J | 0.50 | 0.065 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.36 | | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 3.6 | | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.16 | J | 0.50 | 0.086 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.074 | J | 0.20 | 0.034 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.33 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.14 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.47 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.063 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.053 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2-Chlorotoluene | 0.075 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.24 | | 0.20 | 0.057 | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID4 (Continued) — Lab Sample ID: 200-40374-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | 0.070 | J | 0.20 | 0.052 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.087 | J | 0.20 | 0.063 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 3.2 | | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.0 | J | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 35 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.4 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.60 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 18 | | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.76 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.40 | J | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.31 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 1.8 | | 0.70 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 3.5 | | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 5.6 | | 0.79 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 5.6 | | 1.6 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 0.14 | J | 1.1 | 0.14 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.20 | J | 0.69 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.45 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.22 | J | 0.93 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.34 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.58 | J | 0.82 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.5 | | 1.1 | 0.049 | ug/m3 | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 0.59 | J | 2.0 | 0.27 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 1.3 | | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 25 | | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.64 | J | 2.0 | 0.35 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.32 | J | 0.87 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 1.4 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.59 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 2.0 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 0.31 | J | 0.98 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.26 | J | 0.98 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2-Chlorotoluene | 0.39 | J | 1.0 | 0.18 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 1.2 | | 0.98 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Isopropyltoluene | 0.39 | J | 1.1 | 0.29 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,4-Dichlorobenzene | 0.52 | J | 1.2 | 0.38 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: SS5 — Lab Sample ID: 200-40374-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Butane | 1400 | | 24 | 2.2 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Acetone | 71 | J | 240 | 62 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Carbon disulfide | 6.0 | J | 24 | 1.3 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| n-Hexane | 530 | | 9.6 | 2.2 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 7.8 | J | 24 | 5.3 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Cyclohexane | 650 | | 9.6 | 2.2 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 4.9 | J | 9.6 | 2.1 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Benzene | 22 | | 9.6 | 1.3 | ppb v/v | 47.85 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SS5 (Continued)

## Lab Sample ID: 200-40374-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Heptane | 360 | | 9.6 | 3.3 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Trichloroethene | 0.84 | J | 9.6 | 0.44 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Toluene | 82 | | 9.6 | 1.7 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Tetrachloroethene | 7.9 | J | 9.6 | 0.47 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Ethylbenzene | 16 | | 9.6 | 1.6 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| m,p-Xylene | 77 | | 24 | 3.7 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Xylene, o- | 24 | | 9.6 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Xylene (total) | 100 | | 33 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| Cumene | 4.0 | J | 9.6 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| n-Propylbenzene | 3.2 | J | 9.6 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.9 | J | 9.6 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 4.1 | J | 9.6 | 1.9 | ppb v/v | 47.85 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 3.7 | J | 9.6 | 2.7 | ppb v/v | 47.85 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| n-Butane | 3400 | | 57 | 5.2 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Acetone | 170 | J | 570 | 150 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Carbon disulfide | 19 | J | 75 | 4.2 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| n-Hexane | 1900 | | 34 | 7.8 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 23 | J | 71 | 16 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Cyclohexane | 2200 | | 33 | 7.4 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 23 | J | 45 | 9.6 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Benzene | 71 | | 31 | 4.3 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| n-Heptane | 1500 | | 39 | 13 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Trichloroethene | 4.5 | J | 51 | 2.3 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Toluene | 310 | | 36 | 6.3 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Tetrachloroethene | 54 | J | 65 | 3.2 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Ethylbenzene | 71 | | 42 | 7.1 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| m,p-Xylene | 340 | | 100 | 16 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Xylene, o- | 100 | | 42 | 8.3 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Xylene (total) | 440 | | 150 | 8.3 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| Cumene | 20 | J | 47 | 9.2 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| n-Propylbenzene | 16 | J | 47 | 9.4 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 9.1 | J | 47 | 9.4 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 20 | J | 47 | 9.4 | ug/m3 | 47.85 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 18 | J | 47 | 13 | ug/m3 | 47.85 | | TO-15 | Total/NA |

## Client Sample ID: ID5

## Lab Sample ID: 200-40374-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.48 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 2.2 | | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.48 | J | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 26 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.23 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.076 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 4.3 | J | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.35 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.029 | J | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.18 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Hexane | 0.95 | | 0.20 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: ID5 (Continued)

## Lab Sample ID: 200-40374-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone | 0.51 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.90 | | 0.20 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 0.90 | | 0.40 | 0.029 | ppb v/v | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.13 | J | 0.20 | 0.045 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.064 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.070 | J | 0.20 | 0.043 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.11 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Heptane | 0.25 | | 0.20 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.45 | | 0.20 | 0.0091 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.25 | | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 2.1 | | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.043 | J | 0.20 | 0.034 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.15 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.066 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.22 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.040 | J | 0.20 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.12 | J | 0.20 | 0.057 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.4 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 7.9 | | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.99 | J | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 63 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.3 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.58 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 10 | J | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.85 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.089 | J | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.61 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Hexane | 3.4 | | 0.70 | 0.16 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.5 | | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 3.6 | | 0.79 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2-Dichloroethene, Total | 3.6 | | 1.6 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Cyclohexane | 0.44 | J | 0.69 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.40 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| 2,2,4-Trimethylpentane | 0.33 | J | 0.93 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.35 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Heptane | 1.0 | | 0.82 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 2.4 | | 1.1 | 0.049 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.95 | | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 15 | | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 0.19 | J | 0.87 | 0.15 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.66 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene, o- | 0.29 | J | 0.87 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.94 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 0.20 | J | 0.98 | 0.20 | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 0.60 | J | 0.98 | 0.28 | ug/m3 | 1 | | TO-15 | Total/NA |

## Client Sample ID: OD2

## Lab Sample ID: 200-40374-7

This Detection Summary does not include radiochemical test results.

## Client Sample ID: OD2 (Continued)

## Lab Sample ID: 200-40374-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.47 | J | 0.50 | 0.047 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon 22 | 0.27 | J | 0.50 | 0.20 | ppb v/v | 1 | | TO-15 | Total/NA |
| Chloromethane | 0.52 | | 0.50 | 0.16 | ppb v/v | 1 | | TO-15 | Total/NA |
| n-Butane | 0.59 | | 0.50 | 0.046 | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 0.22 | | 0.20 | 0.031 | ppb v/v | 1 | | TO-15 | Total/NA |
| Freon TF | 0.073 | J | 0.20 | 0.027 | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone | 11 | | 5.0 | 1.3 | ppb v/v | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.38 | J | 5.0 | 0.13 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.037 | J | 0.50 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.097 | J | 0.50 | 0.068 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 1.9 | | 0.50 | 0.11 | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.064 | J | 0.20 | 0.011 | ppb v/v | 1 | | TO-15 | Total/NA |
| Benzene | 0.087 | J | 0.20 | 0.028 | ppb v/v | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 0.077 | J | 0.50 | 0.065 | ppb v/v | 1 | | TO-15 | Total/NA |
| Toluene | 0.14 | J | 0.20 | 0.035 | ppb v/v | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.017 | J | 0.20 | 0.0098 | ppb v/v | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 0.31 | J | 0.50 | 0.086 | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.093 | J | 0.50 | 0.077 | ppb v/v | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.093 | J | 0.70 | 0.040 | ppb v/v | 1 | | TO-15 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.3 | J | 2.5 | 0.23 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon 22 | 0.97 | J | 1.8 | 0.71 | ug/m3 | 1 | | TO-15 | Total/NA |
| Chloromethane | 1.1 | | 1.0 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| n-Butane | 1.4 | | 1.2 | 0.11 | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichlorofluoromethane | 1.3 | | 1.1 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |
| Freon TF | 0.56 | J | 1.5 | 0.21 | ug/m3 | 1 | | TO-15 | Total/NA |
| Acetone | 26 | | 12 | 3.1 | ug/m3 | 1 | | TO-15 | Total/NA |
| Isopropyl alcohol | 0.94 | J | 12 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 0.11 | J | 1.6 | 0.087 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methylene Chloride | 0.34 | J | 1.7 | 0.24 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Ethyl Ketone | 5.7 | | 1.5 | 0.32 | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon tetrachloride | 0.40 | J | 1.3 | 0.069 | ug/m3 | 1 | | TO-15 | Total/NA |
| Benzene | 0.28 | J | 0.64 | 0.089 | ug/m3 | 1 | | TO-15 | Total/NA |
| methyl isobutyl ketone | 0.32 | J | 2.0 | 0.27 | ug/m3 | 1 | | TO-15 | Total/NA |
| Toluene | 0.54 | J | 0.75 | 0.13 | ug/m3 | 1 | | TO-15 | Total/NA |
| Tetrachloroethene | 0.11 | J | 1.4 | 0.066 | ug/m3 | 1 | | TO-15 | Total/NA |
| Methyl Butyl Ketone (2-Hexanone) | 1.3 | J | 2.0 | 0.35 | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 0.41 | J | 2.2 | 0.33 | ug/m3 | 1 | | TO-15 | Total/NA |
| Xylene (total) | 0.40 | J | 3.0 | 0.17 | ug/m3 | 1 | | TO-15 | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SS3

**Date Collected: 10/04/17 18:00**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Lab Sample ID: 200-40374-1

**Matrix: Air**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.56** | **J** | 1.0 | 0.094 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Freon 22** | **1.0** | | 1.0 | 0.40 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.40 | 0.082 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Chloromethane** | **0.54** | **J** | 1.0 | 0.32 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **n-Butane** | **45** | | 1.0 | 0.092 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Vinyl chloride | ND | | 0.40 | 0.036 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,3-Butadiene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Bromomethane | ND | | 0.40 | 0.072 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Chloroethane | ND | | 1.0 | 0.26 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Bromoethene(Vinyl Bromide) | ND | | 0.40 | 0.044 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Trichlorofluoromethane** | **0.26** | **J** | 0.40 | 0.062 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Freon TF** | **0.085** | **J** | 0.40 | 0.054 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,1-Dichloroethene | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Acetone** | **43** | | 10 | 2.6 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Isopropyl alcohol** | **3.2** | **J** | 10 | 0.26 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Carbon disulfide** | **0.96** | **J** | 1.0 | 0.056 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 3-Chloropropene | ND | | 1.0 | 0.13 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Methylene Chloride** | **0.16** | **J** | 1.0 | 0.14 | ppb v/v | | | 10/10/17 15:03 | 2 |
| tert-Butyl alcohol | ND | | 10 | 3.4 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Methyl tert-butyl ether | ND | | 0.40 | 0.082 | ppb v/v | | | 10/10/17 15:03 | 2 |
| trans-1,2-Dichloroethene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **n-Hexane** | **11** | | 0.40 | 0.092 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,1-Dichloroethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Methyl Ethyl Ketone** | **5.9** | | 1.0 | 0.22 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **cis-1,2-Dichloroethene** | **1.1** | | 0.40 | 0.058 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **1,2-Dichloroethene, Total** | **1.1** | | 0.80 | 0.058 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Chloroform** | **0.11** | **J** | 0.40 | 0.050 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Tetrahydrofuran | ND | | 10 | 2.4 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **1,1,1-Trichloroethane** | **0.080** | **J** | 0.40 | 0.052 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Cyclohexane** | **3.3** | | 0.40 | 0.090 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Carbon tetrachloride** | **0.071** | **J** | 0.40 | 0.022 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **2,2,4-Trimethylpentane** | **0.25** | **J** | 0.40 | 0.086 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Benzene** | **2.2** | | 0.40 | 0.056 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,2-Dichloroethane | ND | | 0.40 | 0.068 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **n-Heptane** | **7.1** | | 0.40 | 0.14 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Trichloroethene** | **0.60** | | 0.40 | 0.018 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Methyl methacrylate | ND | | 1.0 | 0.22 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,2-Dichloropropane | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,4-Dioxane | ND | | 10 | 1.5 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Bromodichloromethane | ND | | 0.40 | 0.12 | ppb v/v | | | 10/10/17 15:03 | 2 |
| cis-1,3-Dichloropropene | ND | | 0.40 | 0.072 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **methyl isobutyl ketone** | **1.8** | | 1.0 | 0.13 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Toluene** | **4.5** | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| trans-1,3-Dichloropropene | ND | | 0.40 | 0.076 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,1,2-Trichloroethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Tetrachloroethene** | **11** | | 0.40 | 0.020 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Methyl Butyl Ketone (2-Hexanone)** | **1.3** | | 1.0 | 0.17 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Dibromochloromethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 15:03 | 2 |

**Client Sample ID: SS3**
**Date Collected: 10/04/17 18:00**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-1**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 0.40 | 0.046 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Chlorobenzene | ND | | 0.40 | 0.050 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Ethylbenzene** | **0.48** | | 0.40 | 0.068 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **m,p-Xylene** | **2.6** | | 1.0 | 0.15 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Xylene, o-** | **0.83** | | 0.40 | 0.080 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Xylene (total)** | **3.4** | | 1.4 | 0.080 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Styrene** | **0.17** | **J** | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Bromoform | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Cumene** | **0.17** | **J** | 0.40 | 0.078 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | 0.052 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **n-Propylbenzene** | **0.22** | **J** | 0.40 | 0.080 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **4-Ethyltoluene** | **0.30** | **J** | 0.40 | 0.080 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **1,3,5-Trimethylbenzene** | **0.34** | **J** | 0.40 | 0.080 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 2-Chlorotoluene | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 15:03 | 2 |
| tert-Butylbenzene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **1,2,4-Trimethylbenzene** | **0.78** | | 0.40 | 0.11 | ppb v/v | | | 10/10/17 15:03 | 2 |
| sec-Butylbenzene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 4-Isopropyltoluene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,3-Dichlorobenzene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,4-Dichlorobenzene | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Benzyl chloride | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 15:03 | 2 |
| n-Butylbenzene | ND | | 0.40 | 0.14 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,2-Dichlorobenzene | ND | | 0.40 | 0.090 | ppb v/v | | | 10/10/17 15:03 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.38 | ppb v/v | | | 10/10/17 15:03 | 2 |
| Hexachlorobutadiene | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 15:03 | 2 |
| **Naphthalene** | **0.21** | **J** | 1.0 | 0.20 | ppb v/v | | | 10/10/17 15:03 | 2 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.8** | **J** | 4.9 | 0.46 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Freon 22** | **3.7** | | 3.5 | 1.4 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dichlorotetrafluoroethane | ND | | 2.8 | 0.57 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Chloromethane** | **1.1** | **J** | 2.1 | 0.66 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **n-Butane** | **110** | | 2.4 | 0.22 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Vinyl chloride | ND | | 1.0 | 0.092 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,3-Butadiene | ND | | 0.88 | 0.16 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Bromomethane | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Chloroethane | ND | | 2.6 | 0.69 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Bromoethene(Vinyl Bromide) | ND | | 1.7 | 0.19 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Trichlorofluoromethane** | **1.5** | **J** | 2.2 | 0.35 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Freon TF** | **0.65** | **J** | 3.1 | 0.41 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,1-Dichloroethene | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Acetone** | **100** | | 24 | 6.2 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Isopropyl alcohol** | **7.8** | **J** | 25 | 0.64 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Carbon disulfide** | **3.0** | **J** | 3.1 | 0.17 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 3-Chloropropene | ND | | 3.1 | 0.39 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Methylene Chloride** | **0.55** | **J** | 3.5 | 0.47 | ug/m3 | | | 10/10/17 15:03 | 2 |
| tert-Butyl alcohol | ND | | 30 | 10 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Methyl tert-butyl ether | ND | | 1.4 | 0.30 | ug/m3 | | | 10/10/17 15:03 | 2 |
| trans-1,2-Dichloroethene | ND | | 1.6 | 0.40 | ug/m3 | | | 10/10/17 15:03 | 2 |

**Client Sample ID: SS3**
**Date Collected: 10/04/17 18:00**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-1**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 37 | | 1.4 | 0.32 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,1-Dichloroethane | ND | | 1.6 | 0.14 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Methyl Ethyl Ketone | 17 | | 2.9 | 0.65 | ug/m3 | | | 10/10/17 15:03 | 2 |
| cis-1,2-Dichloroethene | 4.2 | | 1.6 | 0.23 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dichloroethene, Total | 4.4 | | 3.2 | 0.23 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Chloroform | 0.52 | J | 2.0 | 0.24 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Tetrahydrofuran | ND | | 29 | 7.1 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,1,1-Trichloroethane | 0.43 | J | 2.2 | 0.28 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Cyclohexane | 11 | | 1.4 | 0.31 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Carbon tetrachloride | 0.45 | J | 2.5 | 0.14 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 2,2,4-Trimethylpentane | 1.2 | J | 1.9 | 0.40 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Benzene | 7.2 | | 1.3 | 0.18 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dichloroethane | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 15:03 | 2 |
| n-Heptane | 29 | | 1.6 | 0.56 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Trichloroethene | 3.2 | | 2.1 | 0.098 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Methyl methacrylate | ND | | 4.1 | 0.90 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dichloropropane | ND | | 1.8 | 0.32 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,4-Dioxane | ND | | 36 | 5.5 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Bromodichloromethane | ND | | 2.7 | 0.79 | ug/m3 | | | 10/10/17 15:03 | 2 |
| cis-1,3-Dichloropropene | ND | | 1.8 | 0.33 | ug/m3 | | | 10/10/17 15:03 | 2 |
| methyl isobutyl ketone | 7.3 | | 4.1 | 0.53 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Toluene | 17 | | 1.5 | 0.26 | ug/m3 | | | 10/10/17 15:03 | 2 |
| trans-1,3-Dichloropropene | ND | | 1.8 | 0.34 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,1,2-Trichloroethane | ND | | 2.2 | 0.19 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Tetrachloroethene | 72 | | 2.7 | 0.13 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Methyl Butyl Ketone (2-Hexanone) | 5.3 | | 4.1 | 0.70 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Dibromochloromethane | ND | | 3.4 | 0.29 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dibromoethane | ND | | 3.1 | 0.35 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Chlorobenzene | ND | | 1.8 | 0.23 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Ethylbenzene | 2.1 | | 1.7 | 0.30 | ug/m3 | | | 10/10/17 15:03 | 2 |
| m,p-Xylene | 11 | | 4.3 | 0.67 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Xylene, o- | 3.6 | | 1.7 | 0.35 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Xylene (total) | 15 | | 6.1 | 0.35 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Styrene | 0.72 | J | 1.7 | 0.30 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Bromoform | ND | | 4.1 | 0.72 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Cumene | 0.83 | J | 2.0 | 0.38 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | 0.36 | ug/m3 | | | 10/10/17 15:03 | 2 |
| n-Propylbenzene | 1.1 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 4-Ethyltoluene | 1.5 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,3,5-Trimethylbenzene | 1.7 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 2-Chlorotoluene | ND | | 2.1 | 0.36 | ug/m3 | | | 10/10/17 15:03 | 2 |
| tert-Butylbenzene | ND | | 2.2 | 0.41 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2,4-Trimethylbenzene | 3.8 | | 2.0 | 0.56 | ug/m3 | | | 10/10/17 15:03 | 2 |
| sec-Butylbenzene | ND | | 2.2 | 0.41 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 4-Isopropyltoluene | ND | | 2.2 | 0.57 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,3-Dichlorobenzene | ND | | 2.4 | 0.60 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,4-Dichlorobenzene | ND | | 2.4 | 0.76 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Benzyl chloride | ND | | 2.1 | 0.69 | ug/m3 | | | 10/10/17 15:03 | 2 |

## Client Sample ID: SS3
**Lab Sample ID: 200-40374-1**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | | 2.2 | 0.75 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2-Dichlorobenzene | ND | | 2.4 | 0.54 | ug/m3 | | | 10/10/17 15:03 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 7.4 | 2.8 | ug/m3 | | | 10/10/17 15:03 | 2 |
| Hexachlorobutadiene | ND | | 4.3 | 1.4 | ug/m3 | | | 10/10/17 15:03 | 2 |
| **Naphthalene** | **1.1** | **J** | 5.2 | 1.0 | ug/m3 | | | 10/10/17 15:03 | 2 |

## Client Sample ID: ID3
**Lab Sample ID: 200-40374-2**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.48** | **J** | 0.50 | 0.047 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Freon 22** | **0.83** | | 0.50 | 0.20 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Chloromethane** | **0.44** | **J** | 0.50 | 0.16 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **n-Butane** | **13** | | 0.50 | 0.046 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Trichlorofluoromethane** | **0.24** | | 0.20 | 0.031 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Freon TF** | **0.076** | **J** | 0.20 | 0.027 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Acetone** | **4.1** | **J** | 5.0 | 1.3 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Isopropyl alcohol** | **0.49** | **J** | 5.0 | 0.13 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Carbon disulfide** | **0.13** | **J** | 0.50 | 0.028 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Methylene Chloride** | **0.11** | **J** | 0.50 | 0.068 | ppb v/v | | | 10/09/17 18:33 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 18:33 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **n-Hexane** | **0.50** | | 0.20 | 0.046 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Methyl Ethyl Ketone** | **0.48** | **J** | 0.50 | 0.11 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **cis-1,2-Dichloroethene** | **1.4** | | 0.20 | 0.029 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **1,2-Dichloroethene, Total** | **1.4** | | 0.40 | 0.029 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Cyclohexane** | **0.050** | **J** | 0.20 | 0.045 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Carbon tetrachloride** | **0.066** | **J** | 0.20 | 0.011 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **2,2,4-Trimethylpentane** | **0.050** | **J** | 0.20 | 0.043 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Benzene** | **0.096** | **J** | 0.20 | 0.028 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **n-Heptane** | **0.13** | **J** | 0.20 | 0.068 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Trichloroethene** | **0.59** | | 0.20 | 0.0091 | ppb v/v | | | 10/09/17 18:33 | 1 |

**Client Sample ID: ID3**
**Date Collected: 10/04/17 18:00**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-2**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/09/17 18:33 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 18:33 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Toluene** | **0.30** | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Tetrachloroethene** | **3.2** | | 0.20 | 0.0098 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Ethylbenzene** | **0.044** | **J** | 0.20 | 0.034 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **m,p-Xylene** | **0.15** | **J** | 0.50 | 0.077 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Xylene, o-** | **0.070** | **J** | 0.20 | 0.040 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **Xylene (total)** | **0.22** | **J** | 0.70 | 0.040 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 18:33 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 18:33 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **1,2,4-Trimethylbenzene** | **0.071** | **J** | 0.20 | 0.057 | ppb v/v | | | 10/09/17 18:33 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 18:33 | 1 |
| **1,4-Dichlorobenzene** | **0.095** | **J** | 0.20 | 0.063 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/09/17 18:33 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 18:33 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/09/17 18:33 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/09/17 18:33 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.4** | **J** | 2.5 | 0.23 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Freon 22** | **2.9** | | 1.8 | 0.71 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Chloromethane** | **0.92** | **J** | 1.0 | 0.33 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **n-Butane** | **32** | | 1.2 | 0.11 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/09/17 18:33 | 1 |

**Client Sample ID: ID3**
**Lab Sample ID: 200-40374-2**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Trichlorofluoromethane** | **1.4** | | 1.1 | 0.17 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Freon TF** | **0.58** | **J** | 1.5 | 0.21 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Acetone** | **9.8** | **J** | 12 | 3.1 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Isopropyl alcohol** | **1.2** | **J** | 12 | 0.32 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Carbon disulfide** | **0.41** | **J** | 1.6 | 0.087 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Methylene Chloride** | **0.37** | **J** | 1.7 | 0.24 | ug/m3 | | | 10/09/17 18:33 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/09/17 18:33 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **n-Hexane** | **1.7** | | 0.70 | 0.16 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Methyl Ethyl Ketone** | **1.4** | **J** | 1.5 | 0.32 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **cis-1,2-Dichloroethene** | **5.6** | | 0.79 | 0.11 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **1,2-Dichloroethene, Total** | **5.6** | | 1.6 | 0.11 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Cyclohexane** | **0.17** | **J** | 0.69 | 0.15 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Carbon tetrachloride** | **0.41** | **J** | 1.3 | 0.069 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **2,2,4-Trimethylpentane** | **0.24** | **J** | 0.93 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Benzene** | **0.31** | **J** | 0.64 | 0.089 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **n-Heptane** | **0.53** | **J** | 0.82 | 0.28 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Trichloroethene** | **3.2** | | 1.1 | 0.049 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/09/17 18:33 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/09/17 18:33 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Toluene** | **1.1** | | 0.75 | 0.13 | ug/m3 | | | 10/09/17 18:33 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Tetrachloroethene** | **22** | | 1.4 | 0.066 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Ethylbenzene** | **0.19** | **J** | 0.87 | 0.15 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **m,p-Xylene** | **0.67** | **J** | 2.2 | 0.33 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Xylene, o-** | **0.30** | **J** | 0.87 | 0.17 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **Xylene (total)** | **0.96** | **J** | 3.0 | 0.17 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/09/17 18:33 | 1 |

## Client Sample ID: ID3
**Lab Sample ID: 200-40374-2**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/09/17 18:33 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 10/09/17 18:33 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **1,2,4-Trimethylbenzene** | **0.35** | **J** | 0.98 | 0.28 | ug/m3 | | | 10/09/17 18:33 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/09/17 18:33 | 1 |
| **1,4-Dichlorobenzene** | **0.57** | **J** | 1.2 | 0.38 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/09/17 18:33 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/09/17 18:33 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/09/17 18:33 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/09/17 18:33 | 1 |

## Client Sample ID: SS4
**Lab Sample ID: 200-40374-3**
**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.51** | **J** | 1.0 | 0.094 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Freon 22** | **1.1** | | 1.0 | 0.40 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.40 | 0.082 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Chloromethane** | **0.47** | **J** | 1.0 | 0.32 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **n-Butane** | **43** | | 1.0 | 0.092 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Vinyl chloride | ND | | 0.40 | 0.036 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,3-Butadiene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Bromomethane | ND | | 0.40 | 0.072 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Chloroethane | ND | | 1.0 | 0.26 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Bromoethene(Vinyl Bromide) | ND | | 0.40 | 0.044 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Trichlorofluoromethane** | **0.23** | **J** | 0.40 | 0.062 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Freon TF** | **0.076** | **J** | 0.40 | 0.054 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,1-Dichloroethene | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Acetone** | **37** | | 10 | 2.6 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Isopropyl alcohol** | **0.98** | **J** | 10 | 0.26 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Carbon disulfide** | **1.1** | | 1.0 | 0.056 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 3-Chloropropene | ND | | 1.0 | 0.13 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Methylene Chloride** | **0.16** | **J** | 1.0 | 0.14 | ppb v/v | | | 10/10/17 16:45 | 2 |
| tert-Butyl alcohol | ND | | 10 | 3.4 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Methyl tert-butyl ether | ND | | 0.40 | 0.082 | ppb v/v | | | 10/10/17 16:45 | 2 |
| trans-1,2-Dichloroethene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **n-Hexane** | **11** | | 0.40 | 0.092 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,1-Dichloroethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 16:45 | 2 |
| **Methyl Ethyl Ketone** | **6.3** | | 1.0 | 0.22 | ppb v/v | | | 10/10/17 16:45 | 2 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

**Client Sample ID: SS4**
**Date Collected: 10/04/17 18:05**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-3**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 0.87 | | 0.40 | 0.058 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dichloroethene, Total | 0.87 | | 0.80 | 0.058 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Chloroform | 0.16 | J | 0.40 | 0.050 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Tetrahydrofuran | ND | | 10 | 2.4 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,1,1-Trichloroethane | 0.089 | J | 0.40 | 0.052 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Cyclohexane | 4.7 | | 0.40 | 0.090 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Carbon tetrachloride | 0.054 | J | 0.40 | 0.022 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 2,2,4-Trimethylpentane | 0.31 | J | 0.40 | 0.086 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Benzene | 2.3 | | 0.40 | 0.056 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dichloroethane | ND | | 0.40 | 0.068 | ppb v/v | | | 10/10/17 16:45 | 2 |
| n-Heptane | 6.7 | | 0.40 | 0.14 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Trichloroethene | 0.61 | | 0.40 | 0.018 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Methyl methacrylate | ND | | 1.0 | 0.22 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dichloropropane | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,4-Dioxane | ND | | 10 | 1.5 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Bromodichloromethane | ND | | 0.40 | 0.12 | ppb v/v | | | 10/10/17 16:45 | 2 |
| cis-1,3-Dichloropropene | ND | | 0.40 | 0.072 | ppb v/v | | | 10/10/17 16:45 | 2 |
| methyl isobutyl ketone | 1.9 | | 1.0 | 0.13 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Toluene | 6.0 | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| trans-1,3-Dichloropropene | ND | | 0.40 | 0.076 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,1,2-Trichloroethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Tetrachloroethene | 4.5 | | 0.40 | 0.020 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Methyl Butyl Ketone (2-Hexanone) | 1.3 | | 1.0 | 0.17 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Dibromochloromethane | ND | | 0.40 | 0.034 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dibromoethane | ND | | 0.40 | 0.046 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Chlorobenzene | ND | | 0.40 | 0.050 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Ethylbenzene | 0.59 | | 0.40 | 0.068 | ppb v/v | | | 10/10/17 16:45 | 2 |
| m,p-Xylene | 2.3 | | 1.0 | 0.15 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Xylene, o- | 0.80 | | 0.40 | 0.080 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Xylene (total) | 3.1 | | 1.4 | 0.080 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Styrene | 0.16 | J | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Bromoform | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Cumene | 0.21 | J | 0.40 | 0.078 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | 0.052 | ppb v/v | | | 10/10/17 16:45 | 2 |
| n-Propylbenzene | 0.18 | J | 0.40 | 0.080 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 4-Ethyltoluene | 0.26 | J | 0.40 | 0.080 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,3,5-Trimethylbenzene | 0.27 | J | 0.40 | 0.080 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 2-Chlorotoluene | ND | | 0.40 | 0.070 | ppb v/v | | | 10/10/17 16:45 | 2 |
| tert-Butylbenzene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2,4-Trimethylbenzene | 0.75 | | 0.40 | 0.11 | ppb v/v | | | 10/10/17 16:45 | 2 |
| sec-Butylbenzene | ND | | 0.40 | 0.074 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 4-Isopropyltoluene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,3-Dichlorobenzene | ND | | 0.40 | 0.10 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,4-Dichlorobenzene | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Benzyl chloride | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 16:45 | 2 |
| n-Butylbenzene | ND | | 0.40 | 0.14 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2-Dichlorobenzene | ND | | 0.40 | 0.090 | ppb v/v | | | 10/10/17 16:45 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.38 | ppb v/v | | | 10/10/17 16:45 | 2 |

**Client Sample ID: SS4**
**Date Collected: 10/04/17 18:05**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-3**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 0.40 | 0.13 | ppb v/v | | | 10/10/17 16:45 | 2 |
| Naphthalene | ND | | 1.0 | 0.20 | ppb v/v | | | 10/10/17 16:45 | 2 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.5** | **J** | 4.9 | 0.46 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Freon 22** | **3.7** | | 3.5 | 1.4 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2-Dichlorotetrafluoroethane | ND | | 2.8 | 0.57 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Chloromethane** | **0.97** | **J** | 2.1 | 0.66 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **n-Butane** | **100** | | 2.4 | 0.22 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Vinyl chloride | ND | | 1.0 | 0.092 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,3-Butadiene | ND | | 0.88 | 0.16 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Bromomethane | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Chloroethane | ND | | 2.6 | 0.69 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Bromoethene(Vinyl Bromide) | ND | | 1.7 | 0.19 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Trichlorofluoromethane** | **1.3** | **J** | 2.2 | 0.35 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Freon TF** | **0.58** | **J** | 3.1 | 0.41 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,1-Dichloroethene | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Acetone** | **87** | | 24 | 6.2 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Isopropyl alcohol** | **2.4** | **J** | 25 | 0.64 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Carbon disulfide** | **3.5** | | 3.1 | 0.17 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 3-Chloropropene | ND | | 3.1 | 0.39 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Methylene Chloride** | **0.57** | **J** | 3.5 | 0.47 | ug/m3 | | | 10/10/17 16:45 | 2 |
| tert-Butyl alcohol | ND | | 30 | 10 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Methyl tert-butyl ether | ND | | 1.4 | 0.30 | ug/m3 | | | 10/10/17 16:45 | 2 |
| trans-1,2-Dichloroethene | ND | | 1.6 | 0.40 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **n-Hexane** | **38** | | 1.4 | 0.32 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,1-Dichloroethane | ND | | 1.6 | 0.14 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Methyl Ethyl Ketone** | **18** | | 2.9 | 0.65 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **cis-1,2-Dichloroethene** | **3.5** | | 1.6 | 0.23 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **1,2-Dichloroethene, Total** | **3.4** | | 3.2 | 0.23 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Chloroform** | **0.80** | **J** | 2.0 | 0.24 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Tetrahydrofuran | ND | | 29 | 7.1 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **1,1,1-Trichloroethane** | **0.48** | **J** | 2.2 | 0.28 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Cyclohexane** | **16** | | 1.4 | 0.31 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Carbon tetrachloride** | **0.34** | **J** | 2.5 | 0.14 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **2,2,4-Trimethylpentane** | **1.5** | **J** | 1.9 | 0.40 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Benzene** | **7.5** | | 1.3 | 0.18 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2-Dichloroethane | ND | | 1.6 | 0.28 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **n-Heptane** | **28** | | 1.6 | 0.56 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Trichloroethene** | **3.3** | | 2.1 | 0.098 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Methyl methacrylate | ND | | 4.1 | 0.90 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2-Dichloropropane | ND | | 1.8 | 0.32 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,4-Dioxane | ND | | 36 | 5.5 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Bromodichloromethane | ND | | 2.7 | 0.79 | ug/m3 | | | 10/10/17 16:45 | 2 |
| cis-1,3-Dichloropropene | ND | | 1.8 | 0.33 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **methyl isobutyl ketone** | **7.9** | | 4.1 | 0.53 | ug/m3 | | | 10/10/17 16:45 | 2 |
| **Toluene** | **23** | | 1.5 | 0.26 | ug/m3 | | | 10/10/17 16:45 | 2 |
| trans-1,3-Dichloropropene | ND | | 1.8 | 0.34 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,1,2-Trichloroethane | ND | | 2.2 | 0.19 | ug/m3 | | | 10/10/17 16:45 | 2 |

## Client Sample ID: SS4

**Lab Sample ID: 200-40374-3**

**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 30 | | 2.7 | 0.13 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Methyl Butyl Ketone (2-Hexanone) | 5.2 | | 4.1 | 0.70 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Dibromochloromethane | ND | | 3.4 | 0.29 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2-Dibromoethane | ND | | 3.1 | 0.35 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Chlorobenzene | ND | | 1.8 | 0.23 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Ethylbenzene | 2.6 | | 1.7 | 0.30 | ug/m3 | | | 10/10/17 16:45 | 2 |
| m,p-Xylene | 10 | | 4.3 | 0.67 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Xylene, o- | 3.5 | | 1.7 | 0.35 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Xylene (total) | 13 | | 6.1 | 0.35 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Styrene | 0.68 | J | 1.7 | 0.30 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Bromoform | ND | | 4.1 | 0.72 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Cumene | 1.0 | J | 2.0 | 0.38 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | 0.36 | ug/m3 | | | 10/10/17 16:45 | 2 |
| n-Propylbenzene | 0.89 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 4-Ethyltoluene | 1.3 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,3,5-Trimethylbenzene | 1.3 | J | 2.0 | 0.39 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 2-Chlorotoluene | ND | | 2.1 | 0.36 | ug/m3 | | | 10/10/17 16:45 | 2 |
| tert-Butylbenzene | ND | | 2.2 | 0.41 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2,4-Trimethylbenzene | 3.7 | | 2.0 | 0.56 | ug/m3 | | | 10/10/17 16:45 | 2 |
| sec-Butylbenzene | ND | | 2.2 | 0.41 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 4-Isopropyltoluene | ND | | 2.2 | 0.57 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,3-Dichlorobenzene | ND | | 2.4 | 0.60 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,4-Dichlorobenzene | ND | | 2.4 | 0.76 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Benzyl chloride | ND | | 2.1 | 0.69 | ug/m3 | | | 10/10/17 16:45 | 2 |
| n-Butylbenzene | ND | | 2.2 | 0.75 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2-Dichlorobenzene | ND | | 2.4 | 0.54 | ug/m3 | | | 10/10/17 16:45 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 7.4 | 2.8 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Hexachlorobutadiene | ND | | 4.3 | 1.4 | ug/m3 | | | 10/10/17 16:45 | 2 |
| Naphthalene | ND | | 5.2 | 1.0 | ug/m3 | | | 10/10/17 16:45 | 2 |

## Client Sample ID: ID4

**Lab Sample ID: 200-40374-4**

**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | | 0.50 | 0.047 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Freon 22 | 0.91 | | 0.50 | 0.20 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Chloromethane | 0.49 | J | 0.50 | 0.16 | ppb v/v | | | 10/09/17 20:14 | 1 |
| n-Butane | 15 | | 0.50 | 0.046 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Trichlorofluoromethane | 0.25 | | 0.20 | 0.031 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Freon TF | 0.078 | J | 0.20 | 0.027 | ppb v/v | | | 10/09/17 20:14 | 1 |

**Client Sample ID: ID4**
**Lab Sample ID: 200-40374-4**
**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Acetone** | **7.6** | | 5.0 | 1.3 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Isopropyl alcohol** | **0.31** | **J** | 5.0 | 0.13 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Carbon disulfide** | **0.13** | **J** | 0.50 | 0.028 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Methylene Chloride** | **0.088** | **J** | 0.50 | 0.068 | ppb v/v | | | 10/09/17 20:14 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 20:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **n-Hexane** | **0.52** | | 0.20 | 0.046 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Methyl Ethyl Ketone** | **1.2** | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **cis-1,2-Dichloroethene** | **1.4** | | 0.20 | 0.029 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **1,2-Dichloroethene, Total** | **1.4** | | 0.40 | 0.029 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **1,1,1-Trichloroethane** | **0.026** | **J** | 0.20 | 0.026 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Cyclohexane** | **0.057** | **J** | 0.20 | 0.045 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Carbon tetrachloride** | **0.072** | **J** | 0.20 | 0.011 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **2,2,4-Trimethylpentane** | **0.047** | **J** | 0.20 | 0.043 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Benzene** | **0.11** | **J** | 0.20 | 0.028 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **n-Heptane** | **0.14** | **J** | 0.20 | 0.068 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Trichloroethene** | **0.65** | | 0.20 | 0.0091 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/09/17 20:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **methyl isobutyl ketone** | **0.14** | **J** | 0.50 | 0.065 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Toluene** | **0.36** | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Tetrachloroethene** | **3.6** | | 0.20 | 0.0098 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **0.16** | **J** | 0.50 | 0.086 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Ethylbenzene** | **0.074** | **J** | 0.20 | 0.034 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **m,p-Xylene** | **0.33** | **J** | 0.50 | 0.077 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Xylene, o-** | **0.14** | **J** | 0.20 | 0.040 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **Xylene (total)** | **0.47** | **J** | 0.70 | 0.040 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 20:14 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 20:14 | 1 |
| **4-Ethyltoluene** | **0.063** | **J** | 0.20 | 0.040 | ppb v/v | | | 10/09/17 20:14 | 1 |

**Client Sample ID: ID4**
**Lab Sample ID: 200-40374-4**
**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.053 | J | 0.20 | 0.040 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 2-Chlorotoluene | 0.075 | J | 0.20 | 0.035 | ppb v/v | | | 10/09/17 20:14 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2,4-Trimethylbenzene | 0.24 | | 0.20 | 0.057 | ppb v/v | | | 10/09/17 20:14 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 4-Isopropyltoluene | 0.070 | J | 0.20 | 0.052 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,4-Dichlorobenzene | 0.087 | J | 0.20 | 0.063 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/09/17 20:14 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 20:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/09/17 20:14 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/09/17 20:14 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | | 2.5 | 0.23 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Freon 22 | 3.2 | | 1.8 | 0.71 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Chloromethane | 1.0 | J | 1.0 | 0.33 | ug/m3 | | | 10/09/17 20:14 | 1 |
| n-Butane | 35 | | 1.2 | 0.11 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Trichlorofluoromethane | 1.4 | | 1.1 | 0.17 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Freon TF | 0.60 | J | 1.5 | 0.21 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Acetone | 18 | | 12 | 3.1 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Isopropyl alcohol | 0.76 | J | 12 | 0.32 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Carbon disulfide | 0.40 | J | 1.6 | 0.087 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Methylene Chloride | 0.31 | J | 1.7 | 0.24 | ug/m3 | | | 10/09/17 20:14 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/09/17 20:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| n-Hexane | 1.8 | | 0.70 | 0.16 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Methyl Ethyl Ketone | 3.5 | | 1.5 | 0.32 | ug/m3 | | | 10/09/17 20:14 | 1 |
| cis-1,2-Dichloroethene | 5.6 | | 0.79 | 0.11 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2-Dichloroethene, Total | 5.6 | | 1.6 | 0.11 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,1,1-Trichloroethane | 0.14 | J | 1.1 | 0.14 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Cyclohexane | 0.20 | J | 0.69 | 0.15 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Carbon tetrachloride | 0.45 | J | 1.3 | 0.069 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 2,2,4-Trimethylpentane | 0.22 | J | 0.93 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Benzene | 0.34 | J | 0.64 | 0.089 | ug/m3 | | | 10/09/17 20:14 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

**Client Sample ID: ID4**
**Date Collected: 10/04/17 18:05**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-4**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **n-Heptane** | **0.58** | **J** | 0.82 | 0.28 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Trichloroethene** | **3.5** | | 1.1 | 0.049 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/09/17 20:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **methyl isobutyl ketone** | **0.59** | **J** | 2.0 | 0.27 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Toluene** | **1.3** | | 0.75 | 0.13 | ug/m3 | | | 10/09/17 20:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Tetrachloroethene** | **25** | | 1.4 | 0.066 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **0.64** | **J** | 2.0 | 0.35 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Ethylbenzene** | **0.32** | **J** | 0.87 | 0.15 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **m,p-Xylene** | **1.4** | **J** | 2.2 | 0.33 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Xylene, o-** | **0.59** | **J** | 0.87 | 0.17 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **Xylene (total)** | **2.0** | **J** | 3.0 | 0.17 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/09/17 20:14 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **4-Ethyltoluene** | **0.31** | **J** | 0.98 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **1,3,5-Trimethylbenzene** | **0.26** | **J** | 0.98 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **2-Chlorotoluene** | **0.39** | **J** | 1.0 | 0.18 | ug/m3 | | | 10/09/17 20:14 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **1,2,4-Trimethylbenzene** | **1.2** | | 0.98 | 0.28 | ug/m3 | | | 10/09/17 20:14 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **4-Isopropyltoluene** | **0.39** | **J** | 1.1 | 0.29 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/09/17 20:14 | 1 |
| **1,4-Dichlorobenzene** | **0.52** | **J** | 1.2 | 0.38 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/09/17 20:14 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/09/17 20:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/09/17 20:14 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/09/17 20:14 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

**Client Sample ID: SS5**
**Date Collected: 10/04/17 18:20**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 24 | 2.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Freon 22 | ND | | 24 | 9.6 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichlorotetrafluoroethane | ND | | 9.6 | 2.0 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Chloromethane | ND | | 24 | 7.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **n-Butane** | **1400** | | 24 | 2.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Vinyl chloride | ND | | 9.6 | 0.86 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,3-Butadiene | ND | | 9.6 | 1.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Bromomethane | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Chloroethane | ND | | 24 | 6.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Bromoethene(Vinyl Bromide) | ND | | 9.6 | 1.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Trichlorofluoromethane | ND | | 9.6 | 1.5 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Freon TF | ND | | 9.6 | 1.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,1-Dichloroethene | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Acetone** | **71** | **J** | 240 | 62 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Isopropyl alcohol | ND | | 240 | 6.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Carbon disulfide** | **6.0** | **J** | 24 | 1.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 3-Chloropropene | ND | | 24 | 3.0 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Methylene Chloride | ND | | 24 | 3.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| tert-Butyl alcohol | ND | | 240 | 81 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Methyl tert-butyl ether | ND | | 9.6 | 2.0 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| trans-1,2-Dichloroethene | ND | | 9.6 | 2.4 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **n-Hexane** | **530** | | 9.6 | 2.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,1-Dichloroethane | ND | | 9.6 | 0.81 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Methyl Ethyl Ketone** | **7.8** | **J** | 24 | 5.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| cis-1,2-Dichloroethene | ND | | 9.6 | 1.4 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloroethene, Total | ND | | 19 | 1.4 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Chloroform | ND | | 9.6 | 1.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Tetrahydrofuran | ND | | 240 | 57 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,1,1-Trichloroethane | ND | | 9.6 | 1.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Cyclohexane** | **650** | | 9.6 | 2.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Carbon tetrachloride | ND | | 9.6 | 0.53 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **2,2,4-Trimethylpentane** | **4.9** | **J** | 9.6 | 2.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Benzene** | **22** | | 9.6 | 1.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloroethane | ND | | 9.6 | 1.6 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **n-Heptane** | **360** | | 9.6 | 3.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Trichloroethene** | **0.84** | **J** | 9.6 | 0.44 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Methyl methacrylate | ND | | 24 | 5.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloropropane | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,4-Dioxane | ND | | 240 | 36 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Bromodichloromethane | ND | | 9.6 | 2.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| cis-1,3-Dichloropropene | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| methyl isobutyl ketone | ND | | 24 | 3.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Toluene** | **82** | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| trans-1,3-Dichloropropene | ND | | 9.6 | 1.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,1,2-Trichloroethane | ND | | 9.6 | 0.81 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Tetrachloroethene** | **7.9** | **J** | 9.6 | 0.47 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 24 | 4.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Dibromochloromethane | ND | | 9.6 | 0.81 | ppb v/v | | | 10/10/17 17:35 | 47.85 |

**Client Sample ID: SS5**
**Lab Sample ID: 200-40374-5**
**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 9.6 | 1.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Chlorobenzene | ND | | 9.6 | 1.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Ethylbenzene** | **16** | | 9.6 | 1.6 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **m,p-Xylene** | **77** | | 24 | 3.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Xylene, o-** | **24** | | 9.6 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Xylene (total)** | **100** | | 33 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Styrene | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Bromoform | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **Cumene** | **4.0** | **J** | 9.6 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,1,2,2-Tetrachloroethane | ND | | 9.6 | 1.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **n-Propylbenzene** | **3.2** | **J** | 9.6 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **4-Ethyltoluene** | **1.9** | **J** | 9.6 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **1,3,5-Trimethylbenzene** | **4.1** | **J** | 9.6 | 1.9 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 2-Chlorotoluene | ND | | 9.6 | 1.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| tert-Butylbenzene | ND | | 9.6 | 1.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| **1,2,4-Trimethylbenzene** | **3.7** | **J** | 9.6 | 2.7 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| sec-Butylbenzene | ND | | 9.6 | 1.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 4-Isopropyltoluene | ND | | 9.6 | 2.5 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,3-Dichlorobenzene | ND | | 9.6 | 2.4 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,4-Dichlorobenzene | ND | | 9.6 | 3.0 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Benzyl chloride | ND | | 9.6 | 3.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| n-Butylbenzene | ND | | 9.6 | 3.3 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichlorobenzene | ND | | 9.6 | 2.2 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| 1,2,4-Trichlorobenzene | ND | | 24 | 9.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Hexachlorobutadiene | ND | | 9.6 | 3.1 | ppb v/v | | | 10/10/17 17:35 | 47.85 |
| Naphthalene | ND | | 24 | 4.8 | ppb v/v | | | 10/10/17 17:35 | 47.85 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 120 | 11 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Freon 22 | ND | | 85 | 34 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichlorotetrafluoroethane | ND | | 67 | 14 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Chloromethane | ND | | 49 | 16 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| **n-Butane** | **3400** | | 57 | 5.2 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Vinyl chloride | ND | | 24 | 2.2 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,3-Butadiene | ND | | 21 | 3.9 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Bromomethane | ND | | 37 | 6.7 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Chloroethane | ND | | 63 | 16 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Bromoethene(Vinyl Bromide) | ND | | 42 | 4.6 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Trichlorofluoromethane | ND | | 54 | 8.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Freon TF | ND | | 73 | 9.9 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,1-Dichloroethene | ND | | 38 | 6.6 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| **Acetone** | **170** | **J** | 570 | 150 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Isopropyl alcohol | ND | | 590 | 15 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| **Carbon disulfide** | **19** | **J** | 75 | 4.2 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 3-Chloropropene | ND | | 75 | 9.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Methylene Chloride | ND | | 83 | 11 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| tert-Butyl alcohol | ND | | 730 | 250 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Methyl tert-butyl ether | ND | | 35 | 7.1 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| trans-1,2-Dichloroethene | ND | | 38 | 9.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |

**Client Sample ID: SS5**
**Date Collected: 10/04/17 18:20**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

**Lab Sample ID: 200-40374-5**
**Matrix: Air**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 1900 | | 34 | 7.8 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,1-Dichloroethane | ND | | 39 | 3.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Methyl Ethyl Ketone | 23 | J | 71 | 16 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| cis-1,2-Dichloroethene | ND | | 38 | 5.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloroethene, Total | ND | | 76 | 5.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Chloroform | ND | | 47 | 5.8 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Tetrahydrofuran | ND | | 710 | 170 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,1,1-Trichloroethane | ND | | 52 | 6.8 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Cyclohexane | 2200 | | 33 | 7.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Carbon tetrachloride | ND | | 60 | 3.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 2,2,4-Trimethylpentane | 23 | J | 45 | 9.6 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Benzene | 71 | | 31 | 4.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloroethane | ND | | 39 | 6.6 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| n-Heptane | 1500 | | 39 | 13 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Trichloroethene | 4.5 | J | 51 | 2.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Methyl methacrylate | ND | | 98 | 22 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichloropropane | ND | | 44 | 7.7 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,4-Dioxane | ND | | 860 | 130 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Bromodichloromethane | ND | | 64 | 19 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| cis-1,3-Dichloropropene | ND | | 43 | 7.8 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| methyl isobutyl ketone | ND | | 98 | 13 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Toluene | 310 | | 36 | 6.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| trans-1,3-Dichloropropene | ND | | 43 | 8.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,1,2-Trichloroethane | ND | | 52 | 4.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Tetrachloroethene | 54 | J | 65 | 3.2 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 98 | 17 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Dibromochloromethane | ND | | 82 | 6.9 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dibromoethane | ND | | 74 | 8.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Chlorobenzene | ND | | 44 | 5.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Ethylbenzene | 71 | | 42 | 7.1 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| m,p-Xylene | 340 | | 100 | 16 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Xylene, o- | 100 | | 42 | 8.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Xylene (total) | 440 | | 150 | 8.3 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Styrene | ND | | 41 | 7.1 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Bromoform | ND | | 99 | 17 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Cumene | 20 | J | 47 | 9.2 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,1,2,2-Tetrachloroethane | ND | | 66 | 8.5 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| n-Propylbenzene | 16 | J | 47 | 9.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 4-Ethyltoluene | 9.1 | J | 47 | 9.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,3,5-Trimethylbenzene | 20 | J | 47 | 9.4 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 2-Chlorotoluene | ND | | 50 | 8.7 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| tert-Butylbenzene | ND | | 53 | 9.7 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2,4-Trimethylbenzene | 18 | J | 47 | 13 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| sec-Butylbenzene | ND | | 53 | 9.7 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 4-Isopropyltoluene | ND | | 53 | 14 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,3-Dichlorobenzene | ND | | 58 | 14 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,4-Dichlorobenzene | ND | | 58 | 18 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Benzyl chloride | ND | | 50 | 17 | ug/m3 | | | 10/10/17 17:35 | 47.85 |

## Client Sample ID: SS5

**Lab Sample ID: 200-40374-5**
**Matrix: Air**
**Date Collected: 10/04/17 18:20**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | | 53 | 18 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2-Dichlorobenzene | ND | | 58 | 13 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| 1,2,4-Trichlorobenzene | ND | | 180 | 67 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Hexachlorobutadiene | ND | | 100 | 33 | ug/m3 | | | 10/10/17 17:35 | 47.85 |
| Naphthalene | ND | | 130 | 25 | ug/m3 | | | 10/10/17 17:35 | 47.85 |

## Client Sample ID: ID5

**Lab Sample ID: 200-40374-6**
**Matrix: Air**
**Date Collected: 10/04/17 18:20**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.48** | **J** | 0.50 | 0.047 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Freon 22** | **2.2** | | 0.50 | 0.20 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Chloromethane** | **0.48** | **J** | 0.50 | 0.16 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **n-Butane** | **26** | | 0.50 | 0.046 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Trichlorofluoromethane** | **0.23** | | 0.20 | 0.031 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Freon TF** | **0.076** | **J** | 0.20 | 0.027 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Acetone** | **4.3** | **J** | 5.0 | 1.3 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Isopropyl alcohol** | **0.35** | **J** | 5.0 | 0.13 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Carbon disulfide** | **0.029** | **J** | 0.50 | 0.028 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Methylene Chloride** | **0.18** | **J** | 0.50 | 0.068 | ppb v/v | | | 10/09/17 21:55 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 21:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **n-Hexane** | **0.95** | | 0.20 | 0.046 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Methyl Ethyl Ketone** | **0.51** | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **cis-1,2-Dichloroethene** | **0.90** | | 0.20 | 0.029 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **1,2-Dichloroethene, Total** | **0.90** | | 0.40 | 0.029 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Cyclohexane** | **0.13** | **J** | 0.20 | 0.045 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Carbon tetrachloride** | **0.064** | **J** | 0.20 | 0.011 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **2,2,4-Trimethylpentane** | **0.070** | **J** | 0.20 | 0.043 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Benzene** | **0.11** | **J** | 0.20 | 0.028 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **n-Heptane** | **0.25** | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Trichloroethene** | **0.45** | | 0.20 | 0.0091 | ppb v/v | | | 10/09/17 21:55 | 1 |

**Client Sample ID: ID5**
**Lab Sample ID: 200-40374-6**
**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/09/17 21:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 21:55 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Toluene** | **0.25** | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Tetrachloroethene** | **2.1** | | 0.20 | 0.0098 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Ethylbenzene** | **0.043** | **J** | 0.20 | 0.034 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **m,p-Xylene** | **0.15** | **J** | 0.50 | 0.077 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Xylene, o-** | **0.066** | **J** | 0.20 | 0.040 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **Xylene (total)** | **0.22** | **J** | 0.70 | 0.040 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 21:55 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **1,3,5-Trimethylbenzene** | **0.040** | **J** | 0.20 | 0.040 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 21:55 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 21:55 | 1 |
| **1,2,4-Trimethylbenzene** | **0.12** | **J** | 0.20 | 0.057 | ppb v/v | | | 10/09/17 21:55 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/09/17 21:55 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 21:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/09/17 21:55 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/09/17 21:55 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.4** | **J** | 2.5 | 0.23 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Freon 22** | **7.9** | | 1.8 | 0.71 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Chloromethane** | **0.99** | **J** | 1.0 | 0.33 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **n-Butane** | **63** | | 1.2 | 0.11 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/09/17 21:55 | 1 |

**Client Sample ID: ID5**
**Lab Sample ID: 200-40374-6**
**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Trichlorofluoromethane** | **1.3** | | 1.1 | 0.17 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Freon TF** | **0.58** | **J** | 1.5 | 0.21 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Acetone** | **10** | **J** | 12 | 3.1 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Isopropyl alcohol** | **0.85** | **J** | 12 | 0.32 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Carbon disulfide** | **0.089** | **J** | 1.6 | 0.087 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Methylene Chloride** | **0.61** | **J** | 1.7 | 0.24 | ug/m3 | | | 10/09/17 21:55 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/09/17 21:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **n-Hexane** | **3.4** | | 0.70 | 0.16 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Methyl Ethyl Ketone** | **1.5** | | 1.5 | 0.32 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **cis-1,2-Dichloroethene** | **3.6** | | 0.79 | 0.11 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **1,2-Dichloroethene, Total** | **3.6** | | 1.6 | 0.11 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Cyclohexane** | **0.44** | **J** | 0.69 | 0.15 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Carbon tetrachloride** | **0.40** | **J** | 1.3 | 0.069 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **2,2,4-Trimethylpentane** | **0.33** | **J** | 0.93 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Benzene** | **0.35** | **J** | 0.64 | 0.089 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **n-Heptane** | **1.0** | | 0.82 | 0.28 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Trichloroethene** | **2.4** | | 1.1 | 0.049 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/09/17 21:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/09/17 21:55 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Toluene** | **0.95** | | 0.75 | 0.13 | ug/m3 | | | 10/09/17 21:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Tetrachloroethene** | **15** | | 1.4 | 0.066 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Ethylbenzene** | **0.19** | **J** | 0.87 | 0.15 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **m,p-Xylene** | **0.66** | **J** | 2.2 | 0.33 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Xylene, o-** | **0.29** | **J** | 0.87 | 0.17 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **Xylene (total)** | **0.94** | **J** | 3.0 | 0.17 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/09/17 21:55 | 1 |

## Client Sample ID: ID5
**Lab Sample ID: 200-40374-6**

**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/09/17 21:55 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **1,3,5-Trimethylbenzene** | **0.20** | **J** | 0.98 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 10/09/17 21:55 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| **1,2,4-Trimethylbenzene** | **0.60** | **J** | 0.98 | 0.28 | ug/m3 | | | 10/09/17 21:55 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/09/17 21:55 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/09/17 21:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/09/17 21:55 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/09/17 21:55 | 1 |

## Client Sample ID: OD2
**Lab Sample ID: 200-40374-7**

**Date Collected: 10/04/17 18:25**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **0.47** | **J** | 0.50 | 0.047 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Freon 22** | **0.27** | **J** | 0.50 | 0.20 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Chloromethane** | **0.52** | | 0.50 | 0.16 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **n-Butane** | **0.59** | | 0.50 | 0.046 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Trichlorofluoromethane** | **0.22** | | 0.20 | 0.031 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Freon TF** | **0.073** | **J** | 0.20 | 0.027 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Acetone** | **11** | | 5.0 | 1.3 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Isopropyl alcohol** | **0.38** | **J** | 5.0 | 0.13 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Carbon disulfide** | **0.037** | **J** | 0.50 | 0.028 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Methylene Chloride** | **0.097** | **J** | 0.50 | 0.068 | ppb v/v | | | 10/09/17 22:45 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 22:45 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 22:45 | 1 |
| n-Hexane | ND | | 0.20 | 0.046 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Methyl Ethyl Ketone** | **1.9** | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 22:45 | 1 |

**Client Sample ID: OD2**
**Lab Sample ID: 200-40374-7**
**Date Collected: 10/04/17 18:25**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 0.20 | 0.029 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloroethene, Total | ND | | 0.40 | 0.029 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Cyclohexane | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Carbon tetrachloride** | **0.064** | **J** | 0.20 | 0.011 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Benzene** | **0.087** | **J** | 0.20 | 0.028 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 22:45 | 1 |
| n-Heptane | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Trichloroethene | ND | | 0.20 | 0.0091 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/09/17 22:45 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **methyl isobutyl ketone** | **0.077** | **J** | 0.50 | 0.065 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Toluene** | **0.14** | **J** | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Tetrachloroethene** | **0.017** | **J** | 0.20 | 0.0098 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **0.31** | **J** | 0.50 | 0.086 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **m,p-Xylene** | **0.093** | **J** | 0.50 | 0.077 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Xylene, o- | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 22:45 | 1 |
| **Xylene (total)** | **0.093** | **J** | 0.70 | 0.040 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 22:45 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 22:45 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 10/09/17 22:45 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/09/17 22:45 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 22:45 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/09/17 22:45 | 1 |

**Client Sample ID: OD2**
**Lab Sample ID: 200-40374-7**
**Date Collected: 10/04/17 18:25**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/09/17 22:45 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/09/17 22:45 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Dichlorodifluoromethane** | **2.3** | **J** | 2.5 | 0.23 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Freon 22** | **0.97** | **J** | 1.8 | 0.71 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Chloromethane** | **1.1** | | 1.0 | 0.33 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **n-Butane** | **1.4** | | 1.2 | 0.11 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Trichlorofluoromethane** | **1.3** | | 1.1 | 0.17 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Freon TF** | **0.56** | **J** | 1.5 | 0.21 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Acetone** | **26** | | 12 | 3.1 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Isopropyl alcohol** | **0.94** | **J** | 12 | 0.32 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Carbon disulfide** | **0.11** | **J** | 1.6 | 0.087 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Methylene Chloride** | **0.34** | **J** | 1.7 | 0.24 | ug/m3 | | | 10/09/17 22:45 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/09/17 22:45 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| n-Hexane | ND | | 0.70 | 0.16 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Methyl Ethyl Ketone** | **5.7** | | 1.5 | 0.32 | ug/m3 | | | 10/09/17 22:45 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.79 | 0.11 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloroethene, Total | ND | | 1.6 | 0.11 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Cyclohexane | ND | | 0.69 | 0.15 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Carbon tetrachloride** | **0.40** | **J** | 1.3 | 0.069 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Benzene** | **0.28** | **J** | 0.64 | 0.089 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/09/17 22:45 | 1 |
| n-Heptane | ND | | 0.82 | 0.28 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Trichloroethene | ND | | 1.1 | 0.049 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/09/17 22:45 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **methyl isobutyl ketone** | **0.32** | **J** | 2.0 | 0.27 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Toluene** | **0.54** | **J** | 0.75 | 0.13 | ug/m3 | | | 10/09/17 22:45 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/09/17 22:45 | 1 |

**Client Sample ID: OD2**
**Lab Sample ID: 200-40374-7**
**Date Collected: 10/04/17 18:25**
**Matrix: Air**
**Date Received: 10/06/17 09:35**
**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **0.11** | **J** | 1.4 | 0.066 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Methyl Butyl Ketone (2-Hexanone)** | **1.3** | **J** | 2.0 | 0.35 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **m,p-Xylene** | **0.41** | **J** | 2.2 | 0.33 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Xylene, o- | ND | | 0.87 | 0.17 | ug/m3 | | | 10/09/17 22:45 | 1 |
| **Xylene (total)** | **0.40** | **J** | 3.0 | 0.17 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/09/17 22:45 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 10/09/17 22:45 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 10/09/17 22:45 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/09/17 22:45 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/09/17 22:45 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/09/17 22:45 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/09/17 22:45 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-121899/4**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 0.50 | 0.047 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Freon 22 | ND | | 0.50 | 0.20 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Chloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 10/09/17 13:30 | 1 |
| n-Butane | ND | | 0.50 | 0.046 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Trichlorofluoromethane | ND | | 0.20 | 0.031 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Freon TF | ND | | 0.20 | 0.027 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Acetone | ND | | 5.0 | 1.3 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Isopropyl alcohol | ND | | 5.0 | 0.13 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Carbon disulfide | ND | | 0.50 | 0.028 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Methylene Chloride | ND | | 0.50 | 0.068 | ppb v/v | | | 10/09/17 13:30 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/09/17 13:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 13:30 | 1 |
| n-Hexane | ND | | 0.20 | 0.046 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Methyl Ethyl Ketone | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 13:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 0.029 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloroethene, Total | ND | | 0.40 | 0.029 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Cyclohexane | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Carbon tetrachloride | ND | | 0.20 | 0.011 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Benzene | ND | | 0.20 | 0.028 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 13:30 | 1 |
| n-Heptane | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Trichloroethene | ND | | 0.20 | 0.0091 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/09/17 13:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/09/17 13:30 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Toluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Tetrachloroethene | ND | | 0.20 | 0.0098 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/09/17 13:30 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-121899/4**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 10/09/17 13:30 | 1 |
| m,p-Xylene | ND | | 0.50 | 0.077 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Xylene, o- | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Xylene (total) | ND | | 0.70 | 0.040 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/09/17 13:30 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/09/17 13:30 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 10/09/17 13:30 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/09/17 13:30 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/09/17 13:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/09/17 13:30 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/09/17 13:30 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 2.5 | 0.23 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Freon 22 | ND | | 1.8 | 0.71 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Chloromethane | ND | | 1.0 | 0.33 | ug/m3 | | | 10/09/17 13:30 | 1 |
| n-Butane | ND | | 1.2 | 0.11 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Trichlorofluoromethane | ND | | 1.1 | 0.17 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Freon TF | ND | | 1.5 | 0.21 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Acetone | ND | | 12 | 3.1 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Isopropyl alcohol | ND | | 12 | 0.32 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Carbon disulfide | ND | | 1.6 | 0.087 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Methylene Chloride | ND | | 1.7 | 0.24 | ug/m3 | | | 10/09/17 13:30 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/09/17 13:30 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-121899/4**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| n-Hexane | ND | | 0.70 | 0.16 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Methyl Ethyl Ketone | ND | | 1.5 | 0.32 | ug/m3 | | | 10/09/17 13:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.79 | 0.11 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloroethene, Total | ND | | 1.6 | 0.11 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Cyclohexane | ND | | 0.69 | 0.15 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Carbon tetrachloride | ND | | 1.3 | 0.069 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Benzene | ND | | 0.64 | 0.089 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/09/17 13:30 | 1 |
| n-Heptane | ND | | 0.82 | 0.28 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Trichloroethene | ND | | 1.1 | 0.049 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/09/17 13:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/09/17 13:30 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Toluene | ND | | 0.75 | 0.13 | ug/m3 | | | 10/09/17 13:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Tetrachloroethene | ND | | 1.4 | 0.066 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 10/09/17 13:30 | 1 |
| m,p-Xylene | ND | | 2.2 | 0.33 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Xylene, o- | ND | | 0.87 | 0.17 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Xylene (total) | ND | | 3.0 | 0.17 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/09/17 13:30 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 10/09/17 13:30 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 10/09/17 13:30 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 10/09/17 13:30 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-121899/4**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/09/17 13:30 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/09/17 13:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/09/17 13:30 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/09/17 13:30 | 1 |

**Lab Sample ID: LCS 200-121899/3**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 10.3 | | ppb v/v | | 103 | 68 - 128 |
| Freon 22 | 10.0 | 9.91 | | ppb v/v | | 99 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 10.0 | | ppb v/v | | 100 | 78 - 138 |
| Chloromethane | 10.0 | 9.44 | | ppb v/v | | 94 | 57 - 126 |
| n-Butane | 10.0 | 9.49 | | ppb v/v | | 95 | 56 - 130 |
| Vinyl chloride | 10.0 | 9.44 | | ppb v/v | | 94 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 9.53 | | ppb v/v | | 95 | 59 - 125 |
| Bromomethane | 10.0 | 10.3 | | ppb v/v | | 103 | 68 - 128 |
| Chloroethane | 10.0 | 10.0 | | ppb v/v | | 100 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.4 | | ppb v/v | | 104 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 10.6 | | ppb v/v | | 106 | 67 - 127 |
| Freon TF | 10.0 | 10.0 | | ppb v/v | | 100 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 9.46 | | ppb v/v | | 95 | 67 - 127 |
| Acetone | 10.0 | 9.82 | | ppb v/v | | 98 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 8.55 | | ppb v/v | | 86 | 55 - 124 |
| Carbon disulfide | 10.0 | 9.53 | | ppb v/v | | 95 | 81 - 141 |
| 3-Chloropropene | 10.0 | 10.3 | | ppb v/v | | 103 | 53 - 133 |
| Methylene Chloride | 10.0 | 9.36 | | ppb v/v | | 94 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 9.00 | | ppb v/v | | 90 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 9.03 | | ppb v/v | | 90 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 9.31 | | ppb v/v | | 93 | 72 - 132 |
| n-Hexane | 10.0 | 9.02 | | ppb v/v | | 90 | 71 - 131 |
| 1,1-Dichloroethane | 10.0 | 9.26 | | ppb v/v | | 93 | 66 - 126 |
| Methyl Ethyl Ketone | 10.0 | 8.94 | | ppb v/v | | 89 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 9.51 | | ppb v/v | | 95 | 67 - 127 |
| Chloroform | 10.0 | 9.67 | | ppb v/v | | 97 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 8.45 | | ppb v/v | | 85 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 9.45 | | ppb v/v | | 95 | 70 - 130 |
| Cyclohexane | 10.0 | 8.96 | | ppb v/v | | 90 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 10.1 | | ppb v/v | | 101 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 8.58 | | ppb v/v | | 86 | 67 - 127 |
| Benzene | 10.0 | 8.92 | | ppb v/v | | 89 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 9.39 | | ppb v/v | | 94 | 67 - 132 |
| n-Heptane | 10.0 | 8.39 | | ppb v/v | | 84 | 62 - 130 |
| Trichloroethene | 10.0 | 8.89 | | ppb v/v | | 89 | 68 - 128 |
| Methyl methacrylate | 10.0 | 8.74 | | ppb v/v | | 87 | 70 - 130 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121899/3**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 10.0 | 9.04 | | ppb v/v | | 90 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 8.59 | | ppb v/v | | 86 | 66 - 132 |
| Bromodichloromethane | 10.0 | 9.71 | | ppb v/v | | 97 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 9.44 | | ppb v/v | | 94 | 70 - 130 |
| methyl isobutyl ketone | 10.0 | 8.43 | | ppb v/v | | 84 | 62 - 130 |
| Toluene | 10.0 | 9.03 | | ppb v/v | | 90 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 9.20 | | ppb v/v | | 92 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 9.44 | | ppb v/v | | 94 | 69 - 129 |
| Tetrachloroethene | 10.0 | 9.88 | | ppb v/v | | 99 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 8.12 | | ppb v/v | | 81 | 61 - 127 |
| Dibromochloromethane | 10.0 | 10.6 | | ppb v/v | | 106 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 9.83 | | ppb v/v | | 98 | 70 - 130 |
| Chlorobenzene | 10.0 | 9.65 | | ppb v/v | | 97 | 68 - 128 |
| Ethylbenzene | 10.0 | 9.14 | | ppb v/v | | 91 | 68 - 128 |
| m,p-Xylene | 20.0 | 18.1 | | ppb v/v | | 91 | 68 - 128 |
| Xylene, o- | 10.0 | 9.15 | | ppb v/v | | 92 | 67 - 127 |
| Styrene | 10.0 | 9.28 | | ppb v/v | | 93 | 68 - 128 |
| Bromoform | 10.0 | 12.6 | | ppb v/v | | 126 | 34 - 170 |
| Cumene | 10.0 | 9.26 | | ppb v/v | | 93 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.23 | | ppb v/v | | 92 | 69 - 129 |
| n-Propylbenzene | 10.0 | 9.31 | | ppb v/v | | 93 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 9.60 | | ppb v/v | | 96 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.48 | | ppb v/v | | 95 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 9.35 | | ppb v/v | | 93 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 9.51 | | ppb v/v | | 95 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 9.62 | | ppb v/v | | 96 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 9.58 | | ppb v/v | | 96 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 9.99 | | ppb v/v | | 100 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 66 - 126 |
| Benzyl chloride | 10.0 | 10.6 | | ppb v/v | | 106 | 54 - 135 |
| n-Butylbenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 10.0 | 8.98 | | ppb v/v | | 90 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 9.85 | | ppb v/v | | 99 | 62 - 130 |
| Naphthalene | 10.0 | 8.36 | | ppb v/v | | 84 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 51.1 | | ug/m3 | | 103 | 68 - 128 |
| Freon 22 | 35 | 35.1 | | ug/m3 | | 99 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 69.9 | | ug/m3 | | 100 | 78 - 138 |
| Chloromethane | 21 | 19.5 | | ug/m3 | | 94 | 57 - 126 |
| n-Butane | 24 | 22.5 | | ug/m3 | | 95 | 56 - 130 |
| Vinyl chloride | 26 | 24.1 | | ug/m3 | | 94 | 62 - 125 |
| 1,3-Butadiene | 22 | 21.1 | | ug/m3 | | 95 | 59 - 125 |
| Bromomethane | 39 | 39.9 | | ug/m3 | | 103 | 68 - 128 |
| Chloroethane | 26 | 26.4 | | ug/m3 | | 100 | 65 - 125 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121899/3**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromoethene(Vinyl Bromide) | 44 | 45.4 | | ug/m3 | | 104 | 67 - 127 |
| Trichlorofluoromethane | 56 | 59.7 | | ug/m3 | | 106 | 67 - 127 |
| Freon TF | 77 | 76.7 | | ug/m3 | | 100 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 37.5 | | ug/m3 | | 95 | 67 - 127 |
| Acetone | 24 | 23.3 | | ug/m3 | | 98 | 64 - 136 |
| Isopropyl alcohol | 25 | 21.0 | | ug/m3 | | 86 | 55 - 124 |
| Carbon disulfide | 31 | 29.7 | | ug/m3 | | 95 | 81 - 141 |
| 3-Chloropropene | 31 | 32.1 | | ug/m3 | | 103 | 53 - 133 |
| Methylene Chloride | 35 | 32.5 | | ug/m3 | | 94 | 62 - 122 |
| tert-Butyl alcohol | 30 | 27.3 | | ug/m3 | | 90 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 32.5 | | ug/m3 | | 90 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 36.9 | | ug/m3 | | 93 | 72 - 132 |
| n-Hexane | 35 | 31.8 | | ug/m3 | | 90 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 37.5 | | ug/m3 | | 93 | 66 - 126 |
| Methyl Ethyl Ketone | 29 | 26.4 | | ug/m3 | | 89 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 37.7 | | ug/m3 | | 95 | 67 - 127 |
| Chloroform | 49 | 47.2 | | ug/m3 | | 97 | 69 - 129 |
| Tetrahydrofuran | 29 | 24.9 | | ug/m3 | | 85 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 51.6 | | ug/m3 | | 95 | 70 - 130 |
| Cyclohexane | 34 | 30.8 | | ug/m3 | | 90 | 69 - 129 |
| Carbon tetrachloride | 63 | 63.7 | | ug/m3 | | 101 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 40.1 | | ug/m3 | | 86 | 67 - 127 |
| Benzene | 32 | 28.5 | | ug/m3 | | 89 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 38.0 | | ug/m3 | | 94 | 67 - 132 |
| n-Heptane | 41 | 34.4 | | ug/m3 | | 84 | 62 - 130 |
| Trichloroethene | 54 | 47.8 | | ug/m3 | | 89 | 68 - 128 |
| Methyl methacrylate | 41 | 35.8 | | ug/m3 | | 87 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 41.8 | | ug/m3 | | 90 | 67 - 127 |
| 1,4-Dioxane | 36 | 31.0 | | ug/m3 | | 86 | 66 - 132 |
| Bromodichloromethane | 67 | 65.1 | | ug/m3 | | 97 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 42.8 | | ug/m3 | | 94 | 70 - 130 |
| methyl isobutyl ketone | 41 | 34.5 | | ug/m3 | | 84 | 62 - 130 |
| Toluene | 38 | 34.0 | | ug/m3 | | 90 | 67 - 127 |
| trans-1,3-Dichloropropene | 45 | 41.8 | | ug/m3 | | 92 | 69 - 129 |
| 1,1,2-Trichloroethane | 55 | 51.5 | | ug/m3 | | 94 | 69 - 129 |
| Tetrachloroethene | 68 | 67.0 | | ug/m3 | | 99 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 33.3 | | ug/m3 | | 81 | 61 - 127 |
| Dibromochloromethane | 85 | 90.7 | | ug/m3 | | 106 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 75.5 | | ug/m3 | | 98 | 70 - 130 |
| Chlorobenzene | 46 | 44.4 | | ug/m3 | | 97 | 68 - 128 |
| Ethylbenzene | 43 | 39.7 | | ug/m3 | | 91 | 68 - 128 |
| m,p-Xylene | 87 | 78.6 | | ug/m3 | | 91 | 68 - 128 |
| Xylene, o- | 43 | 39.7 | | ug/m3 | | 92 | 67 - 127 |
| Styrene | 43 | 39.5 | | ug/m3 | | 93 | 68 - 128 |
| Bromoform | 100 | 130 | | ug/m3 | | 126 | 34 - 170 |
| Cumene | 49 | 45.5 | | ug/m3 | | 93 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 63.4 | | ug/m3 | | 92 | 69 - 129 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121899/3**
**Matrix: Air**
**Analysis Batch: 121899**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| n-Propylbenzene | 49 | 45.8 | | ug/m3 | | 93 | 67 - 127 |
| 4-Ethyltoluene | 49 | 47.2 | | ug/m3 | | 96 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 46.6 | | ug/m3 | | 95 | 65 - 125 |
| 2-Chlorotoluene | 52 | 48.4 | | ug/m3 | | 93 | 67 - 127 |
| tert-Butylbenzene | 55 | 52.2 | | ug/m3 | | 95 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 47.3 | | ug/m3 | | 96 | 65 - 125 |
| sec-Butylbenzene | 55 | 52.6 | | ug/m3 | | 96 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 54.8 | | ug/m3 | | 100 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 60.5 | | ug/m3 | | 101 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 60.4 | | ug/m3 | | 100 | 66 - 126 |
| Benzyl chloride | 52 | 55.1 | | ug/m3 | | 106 | 54 - 135 |
| n-Butylbenzene | 55 | 55.4 | | ug/m3 | | 101 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 60.7 | | ug/m3 | | 101 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 74 | 66.6 | | ug/m3 | | 90 | 59 - 126 |
| Hexachlorobutadiene | 110 | 105 | | ug/m3 | | 99 | 62 - 130 |
| Naphthalene | 52 | 43.8 | | ug/m3 | | 84 | 50 - 121 |

**Lab Sample ID: MB 200-121954/5**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 0.50 | 0.047 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Freon 22 | ND | | 0.50 | 0.20 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 0.20 | 0.041 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Chloromethane | ND | | 0.50 | 0.16 | ppb v/v | | | 10/10/17 14:13 | 1 |
| n-Butane | ND | | 0.50 | 0.046 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Vinyl chloride | ND | | 0.20 | 0.018 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,3-Butadiene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Bromomethane | ND | | 0.20 | 0.036 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Chloroethane | ND | | 0.50 | 0.13 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.20 | 0.022 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Trichlorofluoromethane | ND | | 0.20 | 0.031 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Freon TF | ND | | 0.20 | 0.027 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,1-Dichloroethene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Acetone | ND | | 5.0 | 1.3 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Isopropyl alcohol | ND | | 5.0 | 0.13 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Carbon disulfide | ND | | 0.50 | 0.028 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 3-Chloropropene | ND | | 0.50 | 0.063 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Methylene Chloride | ND | | 0.50 | 0.068 | ppb v/v | | | 10/10/17 14:13 | 1 |
| tert-Butyl alcohol | ND | | 5.0 | 1.7 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Methyl tert-butyl ether | ND | | 0.20 | 0.041 | ppb v/v | | | 10/10/17 14:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/10/17 14:13 | 1 |
| n-Hexane | ND | | 0.20 | 0.046 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,1-Dichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Methyl Ethyl Ketone | ND | | 0.50 | 0.11 | ppb v/v | | | 10/10/17 14:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 0.029 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloroethene, Total | ND | | 0.40 | 0.029 | ppb v/v | | | 10/10/17 14:13 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-121954/5**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ND | | 0.20 | 0.025 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Tetrahydrofuran | ND | | 5.0 | 1.2 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Cyclohexane | ND | | 0.20 | 0.045 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Carbon tetrachloride | ND | | 0.20 | 0.011 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.20 | 0.043 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Benzene | ND | | 0.20 | 0.028 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.034 | ppb v/v | | | 10/10/17 14:13 | 1 |
| n-Heptane | ND | | 0.20 | 0.068 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Trichloroethene | ND | | 0.20 | 0.0091 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Methyl methacrylate | ND | | 0.50 | 0.11 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloropropane | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,4-Dioxane | ND | | 5.0 | 0.76 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Bromodichloromethane | ND | | 0.20 | 0.059 | ppb v/v | | | 10/10/17 14:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 0.036 | ppb v/v | | | 10/10/17 14:13 | 1 |
| methyl isobutyl ketone | ND | | 0.50 | 0.065 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Toluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 0.038 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Tetrachloroethene | ND | | 0.20 | 0.0098 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 0.50 | 0.086 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Dibromochloromethane | ND | | 0.20 | 0.017 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dibromoethane | ND | | 0.20 | 0.023 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Chlorobenzene | ND | | 0.20 | 0.025 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Ethylbenzene | ND | | 0.20 | 0.034 | ppb v/v | | | 10/10/17 14:13 | 1 |
| m,p-Xylene | ND | | 0.50 | 0.077 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Xylene, o- | ND | | 0.20 | 0.040 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Xylene (total) | ND | | 0.70 | 0.040 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Styrene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Bromoform | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Cumene | ND | | 0.20 | 0.039 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 0.026 | ppb v/v | | | 10/10/17 14:13 | 1 |
| n-Propylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 4-Ethyltoluene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 0.040 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 2-Chlorotoluene | ND | | 0.20 | 0.035 | ppb v/v | | | 10/10/17 14:13 | 1 |
| tert-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.20 | 0.057 | ppb v/v | | | 10/10/17 14:13 | 1 |
| sec-Butylbenzene | ND | | 0.20 | 0.037 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 4-Isopropyltoluene | ND | | 0.20 | 0.052 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 0.050 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 0.063 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Benzyl chloride | ND | | 0.20 | 0.067 | ppb v/v | | | 10/10/17 14:13 | 1 |
| n-Butylbenzene | ND | | 0.20 | 0.068 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 0.045 | ppb v/v | | | 10/10/17 14:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 0.19 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Hexachlorobutadiene | ND | | 0.20 | 0.064 | ppb v/v | | | 10/10/17 14:13 | 1 |
| Naphthalene | ND | | 0.50 | 0.10 | ppb v/v | | | 10/10/17 14:13 | 1 |

# QC Sample Results

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 2.5 | 0.23 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Freon 22 | ND | | 1.8 | 0.71 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dichlorotetrafluoroethane | ND | | 1.4 | 0.29 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Chloromethane | ND | | 1.0 | 0.33 | ug/m3 | | | 10/10/17 14:13 | 1 |
| n-Butane | ND | | 1.2 | 0.11 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Vinyl chloride | ND | | 0.51 | 0.046 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,3-Butadiene | ND | | 0.44 | 0.082 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Bromomethane | ND | | 0.78 | 0.14 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Chloroethane | ND | | 1.3 | 0.34 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Bromoethene(Vinyl Bromide) | ND | | 0.87 | 0.096 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Trichlorofluoromethane | ND | | 1.1 | 0.17 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Freon TF | ND | | 1.5 | 0.21 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,1-Dichloroethene | ND | | 0.79 | 0.14 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Acetone | ND | | 12 | 3.1 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Isopropyl alcohol | ND | | 12 | 0.32 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Carbon disulfide | ND | | 1.6 | 0.087 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 3-Chloropropene | ND | | 1.6 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Methylene Chloride | ND | | 1.7 | 0.24 | ug/m3 | | | 10/10/17 14:13 | 1 |
| tert-Butyl alcohol | ND | | 15 | 5.2 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Methyl tert-butyl ether | ND | | 0.72 | 0.15 | ug/m3 | | | 10/10/17 14:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.79 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| n-Hexane | ND | | 0.70 | 0.16 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,1-Dichloroethane | ND | | 0.81 | 0.069 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Methyl Ethyl Ketone | ND | | 1.5 | 0.32 | ug/m3 | | | 10/10/17 14:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.79 | 0.11 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloroethene, Total | ND | | 1.6 | 0.11 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Chloroform | ND | | 0.98 | 0.12 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Tetrahydrofuran | ND | | 15 | 3.5 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.1 | 0.14 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Cyclohexane | ND | | 0.69 | 0.15 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Carbon tetrachloride | ND | | 1.3 | 0.069 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 2,2,4-Trimethylpentane | ND | | 0.93 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Benzene | ND | | 0.64 | 0.089 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloroethane | ND | | 0.81 | 0.14 | ug/m3 | | | 10/10/17 14:13 | 1 |
| n-Heptane | ND | | 0.82 | 0.28 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Trichloroethene | ND | | 1.1 | 0.049 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Methyl methacrylate | ND | | 2.0 | 0.45 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dichloropropane | ND | | 0.92 | 0.16 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,4-Dioxane | ND | | 18 | 2.7 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Bromodichloromethane | ND | | 1.3 | 0.40 | ug/m3 | | | 10/10/17 14:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.91 | 0.16 | ug/m3 | | | 10/10/17 14:13 | 1 |
| methyl isobutyl ketone | ND | | 2.0 | 0.27 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Toluene | ND | | 0.75 | 0.13 | ug/m3 | | | 10/10/17 14:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.91 | 0.17 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.1 | 0.093 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Tetrachloroethene | ND | | 1.4 | 0.066 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Methyl Butyl Ketone (2-Hexanone) | ND | | 2.0 | 0.35 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Dibromochloromethane | ND | | 1.7 | 0.14 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dibromoethane | ND | | 1.5 | 0.18 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Chlorobenzene | ND | | 0.92 | 0.12 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Ethylbenzene | ND | | 0.87 | 0.15 | ug/m3 | | | 10/10/17 14:13 | 1 |
| m,p-Xylene | ND | | 2.2 | 0.33 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Xylene, o- | ND | | 0.87 | 0.17 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Xylene (total) | ND | | 3.0 | 0.17 | ug/m3 | | | 10/10/17 14:13 | 1 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-121954/5**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 0.85 | 0.15 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Bromoform | ND | | 2.1 | 0.36 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Cumene | ND | | 0.98 | 0.19 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.4 | 0.18 | ug/m3 | | | 10/10/17 14:13 | 1 |
| n-Propylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 4-Ethyltoluene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.98 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 2-Chlorotoluene | ND | | 1.0 | 0.18 | ug/m3 | | | 10/10/17 14:13 | 1 |
| tert-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.98 | 0.28 | ug/m3 | | | 10/10/17 14:13 | 1 |
| sec-Butylbenzene | ND | | 1.1 | 0.20 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 4-Isopropyltoluene | ND | | 1.1 | 0.29 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.2 | 0.30 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.2 | 0.38 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Benzyl chloride | ND | | 1.0 | 0.35 | ug/m3 | | | 10/10/17 14:13 | 1 |
| n-Butylbenzene | ND | | 1.1 | 0.37 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.2 | 0.27 | ug/m3 | | | 10/10/17 14:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | 1.4 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Hexachlorobutadiene | ND | | 2.1 | 0.68 | ug/m3 | | | 10/10/17 14:13 | 1 |
| Naphthalene | ND | | 2.6 | 0.52 | ug/m3 | | | 10/10/17 14:13 | 1 |

**Lab Sample ID: LCS 200-121954/3**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 10.0 | 10.6 | | ppb v/v | | 106 | 68 - 128 |
| Freon 22 | 10.0 | 10.0 | | ppb v/v | | 100 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 10.0 | 11.5 | | ppb v/v | | 115 | 78 - 138 |
| Chloromethane | 10.0 | 9.34 | | ppb v/v | | 93 | 57 - 126 |
| n-Butane | 10.0 | 9.33 | | ppb v/v | | 93 | 56 - 130 |
| Vinyl chloride | 10.0 | 9.50 | | ppb v/v | | 95 | 62 - 125 |
| 1,3-Butadiene | 10.0 | 9.21 | | ppb v/v | | 92 | 59 - 125 |
| Bromomethane | 10.0 | 10.4 | | ppb v/v | | 104 | 68 - 128 |
| Chloroethane | 10.0 | 9.66 | | ppb v/v | | 97 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 127 |
| Trichlorofluoromethane | 10.0 | 10.6 | | ppb v/v | | 106 | 67 - 127 |
| Freon TF | 10.0 | 10.4 | | ppb v/v | | 104 | 68 - 128 |
| 1,1-Dichloroethene | 10.0 | 9.65 | | ppb v/v | | 97 | 67 - 127 |
| Acetone | 10.0 | 9.46 | | ppb v/v | | 95 | 64 - 136 |
| Isopropyl alcohol | 10.0 | 8.36 | | ppb v/v | | 84 | 55 - 124 |
| Carbon disulfide | 10.0 | 11.4 | | ppb v/v | | 114 | 81 - 141 |
| 3-Chloropropene | 10.0 | 7.17 | | ppb v/v | | 72 | 53 - 133 |
| Methylene Chloride | 10.0 | 9.57 | | ppb v/v | | 96 | 62 - 122 |
| tert-Butyl alcohol | 10.0 | 9.20 | | ppb v/v | | 92 | 64 - 124 |
| Methyl tert-butyl ether | 10.0 | 9.16 | | ppb v/v | | 92 | 67 - 127 |
| trans-1,2-Dichloroethene | 10.0 | 10.3 | | ppb v/v | | 103 | 72 - 132 |
| n-Hexane | 10.0 | 9.74 | | ppb v/v | | 97 | 71 - 131 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121954/3**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 10.0 | 9.75 | | ppb v/v | | 98 | 66 - 126 |
| Methyl Ethyl Ketone | 10.0 | 9.06 | | ppb v/v | | 91 | 62 - 122 |
| cis-1,2-Dichloroethene | 10.0 | 9.82 | | ppb v/v | | 98 | 67 - 127 |
| Chloroform | 10.0 | 10.1 | | ppb v/v | | 101 | 69 - 129 |
| Tetrahydrofuran | 10.0 | 8.87 | | ppb v/v | | 89 | 61 - 136 |
| 1,1,1-Trichloroethane | 10.0 | 10.1 | | ppb v/v | | 101 | 70 - 130 |
| Cyclohexane | 10.0 | 9.48 | | ppb v/v | | 95 | 69 - 129 |
| Carbon tetrachloride | 10.0 | 10.8 | | ppb v/v | | 108 | 62 - 143 |
| 2,2,4-Trimethylpentane | 10.0 | 9.05 | | ppb v/v | | 91 | 67 - 127 |
| Benzene | 10.0 | 9.55 | | ppb v/v | | 96 | 67 - 127 |
| 1,2-Dichloroethane | 10.0 | 10.0 | | ppb v/v | | 100 | 67 - 132 |
| n-Heptane | 10.0 | 8.84 | | ppb v/v | | 88 | 62 - 130 |
| Trichloroethene | 10.0 | 9.75 | | ppb v/v | | 98 | 68 - 128 |
| Methyl methacrylate | 10.0 | 9.37 | | ppb v/v | | 94 | 70 - 130 |
| 1,2-Dichloropropane | 10.0 | 9.12 | | ppb v/v | | 91 | 67 - 127 |
| 1,4-Dioxane | 10.0 | 9.37 | | ppb v/v | | 94 | 66 - 132 |
| Bromodichloromethane | 10.0 | 10.0 | | ppb v/v | | 100 | 69 - 129 |
| cis-1,3-Dichloropropene | 10.0 | 9.94 | | ppb v/v | | 99 | 70 - 130 |
| methyl isobutyl ketone | 10.0 | 8.94 | | ppb v/v | | 89 | 62 - 130 |
| Toluene | 10.0 | 9.65 | | ppb v/v | | 96 | 67 - 127 |
| trans-1,3-Dichloropropene | 10.0 | 9.54 | | ppb v/v | | 95 | 69 - 129 |
| 1,1,2-Trichloroethane | 10.0 | 10.0 | | ppb v/v | | 100 | 69 - 129 |
| Tetrachloroethene | 10.0 | 10.7 | | ppb v/v | | 107 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 10.0 | 8.91 | | ppb v/v | | 89 | 61 - 127 |
| Dibromochloromethane | 10.0 | 10.2 | | ppb v/v | | 102 | 66 - 130 |
| 1,2-Dibromoethane | 10.0 | 10.3 | | ppb v/v | | 103 | 70 - 130 |
| Chlorobenzene | 10.0 | 10.1 | | ppb v/v | | 101 | 68 - 128 |
| Ethylbenzene | 10.0 | 9.71 | | ppb v/v | | 97 | 68 - 128 |
| m,p-Xylene | 20.0 | 19.1 | | ppb v/v | | 96 | 68 - 128 |
| Xylene, o- | 10.0 | 9.51 | | ppb v/v | | 95 | 67 - 127 |
| Styrene | 10.0 | 9.92 | | ppb v/v | | 99 | 68 - 128 |
| Bromoform | 10.0 | 9.50 | | ppb v/v | | 95 | 34 - 170 |
| Cumene | 10.0 | 9.62 | | ppb v/v | | 96 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 9.97 | | ppb v/v | | 100 | 69 - 129 |
| n-Propylbenzene | 10.0 | 9.71 | | ppb v/v | | 97 | 67 - 127 |
| 4-Ethyltoluene | 10.0 | 10.3 | | ppb v/v | | 103 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 10.0 | 9.89 | | ppb v/v | | 99 | 65 - 125 |
| 2-Chlorotoluene | 10.0 | 9.85 | | ppb v/v | | 98 | 67 - 127 |
| tert-Butylbenzene | 10.0 | 9.89 | | ppb v/v | | 99 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 10.0 | 10.0 | | ppb v/v | | 100 | 65 - 125 |
| sec-Butylbenzene | 10.0 | 9.93 | | ppb v/v | | 99 | 66 - 126 |
| 4-Isopropyltoluene | 10.0 | 10.3 | | ppb v/v | | 103 | 67 - 129 |
| 1,3-Dichlorobenzene | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |
| 1,4-Dichlorobenzene | 10.0 | 10.8 | | ppb v/v | | 108 | 66 - 126 |
| Benzyl chloride | 10.0 | 10.3 | | ppb v/v | | 103 | 54 - 135 |
| n-Butylbenzene | 10.0 | 10.6 | | ppb v/v | | 106 | 67 - 127 |
| 1,2-Dichlorobenzene | 10.0 | 10.8 | | ppb v/v | | 108 | 67 - 127 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121954/3**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 10.0 | 10.5 | | ppb v/v | | 105 | 59 - 126 |
| Hexachlorobutadiene | 10.0 | 10.3 | | ppb v/v | | 103 | 62 - 130 |
| Naphthalene | 10.0 | 9.88 | | ppb v/v | | 99 | 50 - 121 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 49 | 52.5 | | ug/m3 | | 106 | 68 - 128 |
| Freon 22 | 35 | 35.4 | | ug/m3 | | 100 | 64 - 128 |
| 1,2-Dichlorotetrafluoroethane | 70 | 80.5 | | ug/m3 | | 115 | 78 - 138 |
| Chloromethane | 21 | 19.3 | | ug/m3 | | 93 | 57 - 126 |
| n-Butane | 24 | 22.2 | | ug/m3 | | 93 | 56 - 130 |
| Vinyl chloride | 26 | 24.3 | | ug/m3 | | 95 | 62 - 125 |
| 1,3-Butadiene | 22 | 20.4 | | ug/m3 | | 92 | 59 - 125 |
| Bromomethane | 39 | 40.5 | | ug/m3 | | 104 | 68 - 128 |
| Chloroethane | 26 | 25.5 | | ug/m3 | | 97 | 65 - 125 |
| Bromoethene(Vinyl Bromide) | 44 | 45.1 | | ug/m3 | | 103 | 67 - 127 |
| Trichlorofluoromethane | 56 | 59.4 | | ug/m3 | | 106 | 67 - 127 |
| Freon TF | 77 | 79.6 | | ug/m3 | | 104 | 68 - 128 |
| 1,1-Dichloroethene | 40 | 38.3 | | ug/m3 | | 97 | 67 - 127 |
| Acetone | 24 | 22.5 | | ug/m3 | | 95 | 64 - 136 |
| Isopropyl alcohol | 25 | 20.5 | | ug/m3 | | 84 | 55 - 124 |
| Carbon disulfide | 31 | 35.4 | | ug/m3 | | 114 | 81 - 141 |
| 3-Chloropropene | 31 | 22.4 | | ug/m3 | | 72 | 53 - 133 |
| Methylene Chloride | 35 | 33.2 | | ug/m3 | | 96 | 62 - 122 |
| tert-Butyl alcohol | 30 | 27.9 | | ug/m3 | | 92 | 64 - 124 |
| Methyl tert-butyl ether | 36 | 33.0 | | ug/m3 | | 92 | 67 - 127 |
| trans-1,2-Dichloroethene | 40 | 40.7 | | ug/m3 | | 103 | 72 - 132 |
| n-Hexane | 35 | 34.3 | | ug/m3 | | 97 | 71 - 131 |
| 1,1-Dichloroethane | 40 | 39.5 | | ug/m3 | | 98 | 66 - 126 |
| Methyl Ethyl Ketone | 29 | 26.7 | | ug/m3 | | 91 | 62 - 122 |
| cis-1,2-Dichloroethene | 40 | 38.9 | | ug/m3 | | 98 | 67 - 127 |
| Chloroform | 49 | 49.1 | | ug/m3 | | 101 | 69 - 129 |
| Tetrahydrofuran | 29 | 26.2 | | ug/m3 | | 89 | 61 - 136 |
| 1,1,1-Trichloroethane | 55 | 55.0 | | ug/m3 | | 101 | 70 - 130 |
| Cyclohexane | 34 | 32.6 | | ug/m3 | | 95 | 69 - 129 |
| Carbon tetrachloride | 63 | 67.9 | | ug/m3 | | 108 | 62 - 143 |
| 2,2,4-Trimethylpentane | 47 | 42.3 | | ug/m3 | | 91 | 67 - 127 |
| Benzene | 32 | 30.5 | | ug/m3 | | 96 | 67 - 127 |
| 1,2-Dichloroethane | 40 | 40.5 | | ug/m3 | | 100 | 67 - 132 |
| n-Heptane | 41 | 36.2 | | ug/m3 | | 88 | 62 - 130 |
| Trichloroethene | 54 | 52.4 | | ug/m3 | | 98 | 68 - 128 |
| Methyl methacrylate | 41 | 38.4 | | ug/m3 | | 94 | 70 - 130 |
| 1,2-Dichloropropane | 46 | 42.1 | | ug/m3 | | 91 | 67 - 127 |
| 1,4-Dioxane | 36 | 33.8 | | ug/m3 | | 94 | 66 - 132 |
| Bromodichloromethane | 67 | 67.2 | | ug/m3 | | 100 | 69 - 129 |
| cis-1,3-Dichloropropene | 45 | 45.1 | | ug/m3 | | 99 | 70 - 130 |
| methyl isobutyl ketone | 41 | 36.6 | | ug/m3 | | 89 | 62 - 130 |
| Toluene | 38 | 36.4 | | ug/m3 | | 96 | 67 - 127 |
| trans-1,3-Dichloropropene | 45 | 43.3 | | ug/m3 | | 95 | 69 - 129 |

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-121954/3**
**Matrix: Air**
**Analysis Batch: 121954**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | 55 | 54.6 | | ug/m3 | | 100 | 69 - 129 |
| Tetrachloroethene | 68 | 72.6 | | ug/m3 | | 107 | 70 - 130 |
| Methyl Butyl Ketone (2-Hexanone) | 41 | 36.5 | | ug/m3 | | 89 | 61 - 127 |
| Dibromochloromethane | 85 | 87.0 | | ug/m3 | | 102 | 66 - 130 |
| 1,2-Dibromoethane | 77 | 79.5 | | ug/m3 | | 103 | 70 - 130 |
| Chlorobenzene | 46 | 46.6 | | ug/m3 | | 101 | 68 - 128 |
| Ethylbenzene | 43 | 42.2 | | ug/m3 | | 97 | 68 - 128 |
| m,p-Xylene | 87 | 83.1 | | ug/m3 | | 96 | 68 - 128 |
| Xylene, o- | 43 | 41.3 | | ug/m3 | | 95 | 67 - 127 |
| Styrene | 43 | 42.3 | | ug/m3 | | 99 | 68 - 128 |
| Bromoform | 100 | 98.2 | | ug/m3 | | 95 | 34 - 170 |
| Cumene | 49 | 47.3 | | ug/m3 | | 96 | 67 - 127 |
| 1,1,2,2-Tetrachloroethane | 69 | 68.5 | | ug/m3 | | 100 | 69 - 129 |
| n-Propylbenzene | 49 | 47.7 | | ug/m3 | | 97 | 67 - 127 |
| 4-Ethyltoluene | 49 | 50.4 | | ug/m3 | | 103 | 69 - 129 |
| 1,3,5-Trimethylbenzene | 49 | 48.6 | | ug/m3 | | 99 | 65 - 125 |
| 2-Chlorotoluene | 52 | 51.0 | | ug/m3 | | 98 | 67 - 127 |
| tert-Butylbenzene | 55 | 54.3 | | ug/m3 | | 99 | 63 - 125 |
| 1,2,4-Trimethylbenzene | 49 | 49.2 | | ug/m3 | | 100 | 65 - 125 |
| sec-Butylbenzene | 55 | 54.5 | | ug/m3 | | 99 | 66 - 126 |
| 4-Isopropyltoluene | 55 | 56.4 | | ug/m3 | | 103 | 67 - 129 |
| 1,3-Dichlorobenzene | 60 | 65.0 | | ug/m3 | | 108 | 67 - 127 |
| 1,4-Dichlorobenzene | 60 | 64.7 | | ug/m3 | | 108 | 66 - 126 |
| Benzyl chloride | 52 | 53.2 | | ug/m3 | | 103 | 54 - 135 |
| n-Butylbenzene | 55 | 58.0 | | ug/m3 | | 106 | 67 - 127 |
| 1,2-Dichlorobenzene | 60 | 64.7 | | ug/m3 | | 108 | 67 - 127 |
| 1,2,4-Trichlorobenzene | 74 | 78.0 | | ug/m3 | | 105 | 59 - 126 |
| Hexachlorobutadiene | 110 | 110 | | ug/m3 | | 103 | 62 - 130 |
| Naphthalene | 52 | 51.8 | | ug/m3 | | 99 | 50 - 121 |

# QC Association Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Air - GC/MS VOA

### Analysis Batch: 121899

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-40374-2 | ID3 | Total/NA | Air | TO-15 | |
| 200-40374-4 | ID4 | Total/NA | Air | TO-15 | |
| 200-40374-6 | ID5 | Total/NA | Air | TO-15 | |
| 200-40374-7 | OD2 | Total/NA | Air | TO-15 | |
| MB 200-121899/4 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-121899/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

### Analysis Batch: 121954

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 200-40374-1 | SS3 | Total/NA | Air | TO-15 | |
| 200-40374-3 | SS4 | Total/NA | Air | TO-15 | |
| 200-40374-5 | SS5 | Total/NA | Air | TO-15 | |
| MB 200-121954/5 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 200-121954/3 | Lab Control Sample | Total/NA | Air | TO-15 | |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Client Sample ID: SS3
**Lab Sample ID: 200-40374-1**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 2 | 121954 | 10/10/17 15:03 | K1P | TAL BUR |

## Client Sample ID: ID3
**Lab Sample ID: 200-40374-2**
**Date Collected: 10/04/17 18:00**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 121899 | 10/09/17 18:33 | K1P | TAL BUR |

## Client Sample ID: SS4
**Lab Sample ID: 200-40374-3**
**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 2 | 121954 | 10/10/17 16:45 | K1P | TAL BUR |

## Client Sample ID: ID4
**Lab Sample ID: 200-40374-4**
**Date Collected: 10/04/17 18:05**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 121899 | 10/09/17 20:14 | K1P | TAL BUR |

## Client Sample ID: SS5
**Lab Sample ID: 200-40374-5**
**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 47.85 | 121954 | 10/10/17 17:35 | K1P | TAL BUR |

## Client Sample ID: ID5
**Lab Sample ID: 200-40374-6**
**Date Collected: 10/04/17 18:20**
**Matrix: Air**
**Date Received: 10/06/17 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 121899 | 10/09/17 21:55 | K1P | TAL BUR |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

**Client Sample ID: OD2**
**Date Collected: 10/04/17 18:25**
**Date Received: 10/06/17 09:35**

**Lab Sample ID: 200-40374-7**
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | TO-15 | | 1 | 121899 | 10/09/17 22:45 | K1P | TAL BUR |

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

## Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10391 | 04-01-18 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| TO-15 | | Air | 1,2-Dichloroethene, Total |
| TO-15 | | Air | 4-Ethyltoluene |
| TO-15 | | Air | 4-Isopropyltoluene |
| TO-15 | | Air | Cumene |
| TO-15 | | Air | Freon 22 |
| TO-15 | | Air | Methyl Butyl Ketone (2-Hexanone) |
| TO-15 | | Air | n-Butane |
| TO-15 | | Air | n-Butylbenzene |
| TO-15 | | Air | n-Propylbenzene |
| TO-15 | | Air | sec-Butylbenzene |
| TO-15 | | Air | tert-Butylbenzene |
| TO-15 | | Air | Tetrahydrofuran |

## Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 |

# Method Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL BUR |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 200-40374-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 200-40374-1 | SS3 | Air | 10/04/17 18:00 | 10/06/17 09:35 |
| 200-40374-2 | ID3 | Air | 10/04/17 18:00 | 10/06/17 09:35 |
| 200-40374-3 | SS4 | Air | 10/04/17 18:05 | 10/06/17 09:35 |
| 200-40374-4 | ID4 | Air | 10/04/17 18:05 | 10/06/17 09:35 |
| 200-40374-5 | SS5 | Air | 10/04/17 18:20 | 10/06/17 09:35 |
| 200-40374-6 | ID5 | Air | 10/04/17 18:20 | 10/06/17 09:35 |
| 200-40374-7 | OD2 | Air | 10/04/17 18:25 | 10/06/17 09:35 |

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| | | |
|---|---|---|
| **Client Contact Information** | **Client Project Manager:** Adam Zebrowski | **Samples Collected By:** Shannon Dalton |
| **Company Name:** La Bella Associates | **Phone:** 716-710-3043 | COC No: 1 of 1 COCs |
| **Address:** 300 Pearl st | **Email:** azebrowski@labellapc.com; sdalton@labellapc.com | |
| **City/State/Zip** Buffalo NY | | |
| **Phone:** 716-710-3043 | **Site Contact:** | **For Lab Use Only:** Walk-in Client: / Lab Sampling: |
| **FAX:** | **Tel/Fax** | |
| **Project Name:** 11075 Walden Ave | **Anaylsis Turnaround Time** | Job / SDG No.: |
| **Site/Location:** 11075 Walden Ave Alden NY | Standard (Specific): X | (See below for Add'l Items) |
| **P O #** | Rush (Specifiy): | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, 'Hg (Start)' | Canister Vacuum in Field, 'Hg (Stop)' | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes sectio | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS3 | 10/4/17 | 10:00 | 18:00 | -30 | -5 | 5186 | 3659 | | | | | | | X | | | X | | | | | TO-15 |
| ID3 | 10/4/17 | 10:00 | 18:00 | -30 | -5 | 5168 | 3286 | | | | | | | X | | X | | | | | | TO-15 |
| SS4 | 10/4/17 | 10:05 | 18:05 | -30 | -8 | 4747 | 3265 | | | | | | | X | | | X | | | | | TO-15 |
| ID4 | 10/4/17 | 10:05 | 18:05 | -30 | -7 | 5016 | 5066 | | | | | | | X | | X | | | | | | TO-15 |
| SS6 | 10/4/17 | 10:20 | 18:20 | -30 | -9 | 5000 | 5017 | | | | | | | X | | | X | | | | | TO-15 |
| ID6 | 10/4/17 | 10:20 | 18:20 | -30 | -10 | 2761 | 4542 | | | | | | | X | | X | | | | | | TO-15 |
| OD2 | 10/4/17 | 10:25 | 18:25 | -30 | -15 | 3752 | 5110 | | | | | | | X | | | | | | | X | sample type = outdoor air - TO15 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| Temperature (Fahrenheit) | | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

| Pressure (inches of Hg) | | | |
|---|---|---|---|
| Start | Interior | Ambient | |
| Stop | | | |

200-40374 Chain of Custody

**Special Instructions/QC Requirements & Comments:**

| | | | |
|---|---|---|---|
| **Samples Shipped by:** | **Date / Time:** | **Samples Received by:** | |
| **Samples Relinquished by:** Shannon Dalton | **Date / Time:** 10-4 / 1800 | **Received by:** Barbara Deacon TABurl | 10/6/17 0935 |
| **Relinquished by:** | **Date / Time:** | **Received by:** | |
| **Lab Use Only:** | **Shipper Name:** | **Opened by:** | **Condition:** |

Form No. CA-C-WI-003, Rev. 2.5, dated 9/22/2017



10/17/2017


IN ID:DKKA (716) 691-2600
BRONSON
AMERICA
AZELWOOD
RST , NY 14228
ED STATES US
SHIP DATE: 050CT17
ACTWGT: 8.25 LB
CAD: 846654/CAFE3011
BILL RECIPIENT
AMPLE MGT.
A BURLINGTON
0 COMMUNITY DRIVE
UITE 11
OUTH BURLINGTON VT 05403
660-1990
: TA BURLINGTON
FedEx
Express
1 of 3
5657 0123 0807
FRI - 06 OCT 3:00P
STANDARD OVERNIGHT
MASTER ##
C BTVA
05403
VT-US
BTV
ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD
AMHERST , NY 14228
UNITED STATES US
SHIP DATE:
ACTWGT: 16
CAD: 8466
BILL RECIPIE
TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: TA BURLINGTON
FedEx
Express
2 of 3
MPS# 0263 5657 0123 0818
Mstr# 5657 0123 0807
FRI - 06 OCT
STANDARD OVEP
NC BTVA
05403
VT-US
BTV
Part# 156148V-434 RIT2 EXP 03/18
ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD
AMHERST , NY 14228
UNITED STATES US
TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: TA BURLINGTON
FedEx
Express
FRI - 06 OCT 3:00P
STANDARD OVERNIGHT
3 of 3
MPS# 0263 5657 0123 0829
Mstr# 5657 0123 0807
NC BTVA
05403
BTV
Part # 156148V-434 RIT2 EXP 03/18

# Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 200-40374-1

**Login Number: 40374**
**List Number: 1**
**Creator: Lavigne, Scott M**

**List Source: TestAmerica Burlington**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | NA: Lab does not accept radioactive samples |
| The cooler's custody seal, if present, is intact. | True | 025583 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | No: Thermal preservation not required |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | N/A | No:  Thermal preservation not required |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | N/A | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | # Cycles | Cleaning Date | Technician | Canister Size | | Certification Type: | |
|---|---|---|---|---|---|---|---|
| Top Rack | 20 | 6/23/2017 | EJE | 1L | 6L | Individual | Batch |

| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Initial Reading Gauge: | Date: | Time: | Tech: | Temp: | Final Reading Gauge: | Date: | Time: | Tech: | Temp: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4916 | .04 | .05 | .01 | -29.5 | G25 | 7.5.17 | 9AM | EE | 22 | G25 | 7.6.17 | 1030 | EE | 22 |
| 2 | 2707 | .04 | .04 | 0 | -29.4 | G25 | 6.26.17 | 9:00 | EE | 22 | G25 | 7.10.17 | 14:30 | EE | 22 |
| 3 | 4307 | | .04 | 0 | -29.4 | | | | | | | | | | |
| 4 | 5465 | | .04 | 0 | -29.4 | | | | | | | | | | |
| 5 | 5985 | | .08 | .04 | -29.4 | | | | | | | | | | |
| 6 | 5681 | | .08 | .04 | -29.4 | | | | | | | | | | |
| 7 | 2522 | | .05 | .01 | -29.4 | | | | | | | | | | |
| 8 | 6021 | | .04 | 0 | -29.4 | | | | | | | | | | |
| 9 | 3660 | | .10 | .06 | -29.4 | | | | | | | | | | |
| 10 | 4332 | | .04 | 0 | -29.4 | | | | | | | | | | |
| 11 | 5110 | | .08 | .04 | -29.4 | | | | | | | | | | |
| 12 | 4331 | | .09 | .05 | -29.4 | | | | | | | | | | |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15**

| Can ID | Date | Sequence | Analyst | Inventory Level 1 | 2 | 3 | 4 | Secondary Review Limited | Review Date | Reviewer |
|---|---|---|---|---|---|---|---|---|---|---|
| 4916 | 7/03/17 | 25721 | ICP | | XXXX | | | | 7/03/17 | PAD |

**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level 4:** Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Comments:**

FAI023:04.26.17:10
TestAmerica Burlington

200-39070-A-1
4916
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 6/23/2017 12:00 AM 200-1047936

Loc: 200
39070
#1
A

# Pre-Shipment Clean Canister Certification Report

## Canister Cleaning & Pre-Shipment Leak Test

| System ID | # Cycles | Cleaning Date | Technician | Canister Size | | Certification Type: | |
|---|---|---|---|---|---|---|---|
| Top Rack | 20 | 9/6/2017 | EJE | 1L | 6L | Individual | Batch |

| Port | Can ID | Initial[1] (psia) | Final (psia) | Diff.[3] | Final ("Hg) | Initial Reading Gauge: | Date: | Time: | Tech: | Temp: | Final Reading Gauge: | Date: | Time: | Tech: | Temp: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3659 | .04 | .05 | .01 | -29.2 | G25 | 9.7.17 | 11:00 | EE | 23 | G25 | 9.27.17 | 15:45 | EE | 23 |
| 2 | 5689 | " | .05 | .01 | -29.4 | " | " | " | " | " | " | " | " | " | " |
| 3 | 4929 | " | .05 | .01 | -29.4 | " | " | " | " | " | " | " | " | " | " |
| 4 | 5721 | " | .05 | .01 | -29.2 | " | " | " | " | " | " | " | " | " | " |
| 5 | 5027 | .04 | .05 | .01 | -29.5 | G25 | 9.11.17 | 15:45 | EE | 23 | G25 | 9.12.17 | 16:00 | EE | 23 |
| 6 | 5017 | .04 | .05 | .01 | -29.2 | G25 | 9.7.17 | 11:00 | EE | 23 | " | 9.27.17 | 15:45 | " | " |
| 7 | 5608 | " | .05 | .01 | -29.4 | " | " | " | " | " | " | " | " | " | " |
| 8 | 3286 | " | .27 | .23 | -29.2 | " | " | " | " | " | " | " | " | " | " |
| 9 | 3265 | " | .05 | .01 | -29.2 | " | " | " | " | " | " | " | " | " | " |
| 10 | 5066 | " | .05 | .01 | -29.2 | " | " | " | " | " | " | " | " | " | " |
| 11 | 4542 | " | .05 | .01 | -29.2 | " | " | " | " | " | " | " | " | " | " |
| 12 | 4289 | " | .05 | .01 | -29.4 | " | " | " | " | " | " | " | " | " | " |

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

**If time frame was not met, the PM must authorize shipment of canister** **PM Authorization** **Date:**

## Clean Canister Certification Analysis & Authorization of Release to Inventory

**Test Method:** ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

| Can ID | Date | Sequence | Analyst | Inventory Level 1 | 2 | 3 | 4 | Secondary Review: Limited | Review Date | Reviewer |
|---|---|---|---|---|---|---|---|---|---|---|
| 5027 | 9/8/17 | ~~26675~~ 26775 | KP | | XXXX | | | | 9/8/17 | KP |
| | | | mc 10/6/17 | | | | | | | |

**Inventory Level 1:** Individual Canister Certification (TO15LL 0.01).

**Inventory Level 2:** Individual or Batch Certification (TO15 0.04 ppbv).

**Inventory Level 3:** Individual or Batch Certification (TO15 0.2 ppbv).

**Inventory Level 4:** Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

**Inventory Level Limited:** Canisters may only be used for certain projects.

**Comments:**

FAI023:04.26.17:10
TestAmerica Burlington

200-39960-A-5
5027
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 9/6/2017 12:00 AM 200-1071320

Loc: 200
39960
#5
A

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39070-1

SDG No.:

Client Sample ID: 4916  Lab Sample ID: 200-39070-1

Matrix: Air  Lab File ID: 25721-23.D

Analysis Method: TO-15  Date Collected: 06/23/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 07/01/2017 05:27

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 118144  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 1.0 | U | 1.0 | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.10 |
| 75-45-6 | Freon 22 | 0.10 | U | 0.10 | 0.10 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.10 |
| 106-97-8 | n-Butane | 0.10 | U | 0.10 | 0.10 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.040 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.040 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.10 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.040 | U | 0.040 | 0.040 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.040 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 1.0 |
| 76-13-1 | Freon TF | 0.040 | U | 0.040 | 0.040 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 1.0 |
| 67-63-0 | Isopropyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.10 |
| 107-05-1 | 3-Chloropropene | 0.10 | U | 0.10 | 0.10 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.10 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 110-54-3 | n-Hexane | 0.040 | U | 0.040 | 0.040 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 108-05-4 | Vinyl acetate | 1.0 | U | 1.0 | 1.0 |
| 141-78-6 | Ethyl acetate | 1.0 | U | 1.0 | 1.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.10 | U | 0.10 | 0.10 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.080 | U | 0.080 | 0.080 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.040 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.040 |
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.040 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39070-1

SDG No.:

Client Sample ID: 4916  Lab Sample ID: 200-39070-1

Matrix: Air  Lab File ID: 25721-23.D

Analysis Method: TO-15  Date Collected: 06/23/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 07/01/2017 05:27

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 118144  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.040 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 142-82-5 | n-Heptane | 0.040 | U | 0.040 | 0.040 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.040 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 108-10-1 | methyl isobutyl ketone | 0.10 | U | 0.10 | 0.10 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.040 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.10 | U | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.10 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.040 |
| 1330-20-7 | Xylene (total) | 0.14 | U | 0.14 | 0.14 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.040 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.040 |
| 98-82-8 | Cumene | 0.040 | U | 0.040 | 0.040 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 103-65-1 | n-Propylbenzene | 0.040 | U | 0.040 | 0.040 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.040 |
| 98-06-6 | tert-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 135-98-8 | sec-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 99-87-6 | 4-Isopropyltoluene | 0.040 | U | 0.040 | 0.040 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39070-1

SDG No.:

Client Sample ID: 4916  Lab Sample ID: 200-39070-1

Matrix: Air  Lab File ID: 25721-23.D

Analysis Method: TO-15  Date Collected: 06/23/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 07/01/2017 05:27

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 118144  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 0.040 | U | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.040 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.10 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170630-25721.b\25721-23.D
Lims ID: 200-39070-A-1
Client ID: 4916
Sample Type: Client
Inject. Date: 01-Jul-2017 05:27:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0025721-023
Misc. Info.: 39070-01
Operator ID: pad Instrument ID: CHB.i

Method: \\ChromNA\Burlington\ChromData\CHB.i\20170630-25721.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 03-Jul-2017 13:25:38 Calib Date: 09-Jun-2017 10:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20170608-25406.b\25406-17.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: puangmaleek Date: 03-Jul-2017 13:10:22

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 1 Propene | 41 | | 3.140 | | | | ND | |
| 2 Dichlorodifluoromethane | 85 | | 3.199 | | | | ND | |
| 3 Chlorodifluoromethane | 51 | | 3.236 | | | | ND | |
| 4 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.423 | | | | ND | |
| 5 Chloromethane | 50 | | 3.545 | | | | ND | |
| 6 Butane | 43 | | 3.722 | | | | ND | |
| 7 Vinyl chloride | 62 | | 3.759 | | | | ND | |
| 8 Butadiene | 54 | | 3.828 | | | | ND | |
| 10 Bromomethane | 94 | | 4.495 | | | | ND | |
| 11 Chloroethane | 64 | | 4.730 | | | | ND | |
| 13 Vinyl bromide | 106 | | 5.141 | | | | ND | |
| 14 Trichlorofluoromethane | 101 | | 5.243 | | | | ND | |
| 16 Ethanol | 45 | | 5.718 | | | | ND | |
| 19 1,1,2-Trichloro-1,2,2-trif | 101 | | 6.273 | | | | ND | |
| 20 1,1-Dichloroethene | 96 | | 6.342 | | | | ND | |
| 21 Acetone | 43 | | 6.497 | | | | ND | |
| 22 Isopropyl alcohol | 45 | | 6.737 | | | | ND | |
| 23 Carbon disulfide | 76 | | 6.769 | | | | ND | |
| 24 3-Chloro-1-propene | 41 | | 7.041 | | | | ND | |
| 27 Methylene Chloride | 49 | 7.303 | 7.303 | 0.000 | 48 | 3145 | 0.1250 | 7 |
| 28 2-Methyl-2-propanol | 59 | | 7.436 | | | | ND | |
| 29 Methyl tert-butyl ether | 73 | | 7.655 | | | | ND | |
| 30 trans-1,2-Dichloroethene | 61 | | 7.708 | | | | ND | |
| 32 Hexane | 57 | | 8.039 | | | | ND | |
| 33 1,1-Dichloroethane | 63 | | 8.450 | | | | ND | |
| 34 Vinyl acetate | 43 | | 8.461 | | | | ND | |
| 36 2-Butanone (MEK) | 72 | | 9.347 | | | | ND | |
| 37 cis-1,2-Dichloroethene | 96 | | 9.357 | | | | ND | |
| 35 Ethyl acetate | 88 | | 9.363 | | | | ND | |
| * 39 Chlorobromomethane | 128 | 9.715 | 9.726 | -0.011 | 78 | 238508 | 10.0 | |
| 38 Tetrahydrofuran | 42 | | 9.742 | | | | ND | |

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| | 40 Chloroform | 83 | | 9.800 | | | | ND | |
| S | 41 1,2-Dichloroethene, Total | 61 | | 10.000 | | | | ND | |
| | 42 1,1,1-Trichloroethane | 97 | | 10.056 | | | | ND | |
| | 43 Cyclohexane | 84 | | 10.067 | | | | ND | |
| | 44 Carbon tetrachloride | 117 | | 10.259 | | | | ND | |
| | 45 Isooctane | 57 | | 10.542 | | | | ND | |
| | 46 Benzene | 78 | | 10.585 | | | | ND | |
| | 47 1,2-Dichloroethane | 62 | | 10.686 | | | | ND | |
| | 48 n-Heptane | 43 | | 10.793 | | | | ND | |
| * | 50 1,4-Difluorobenzene | 114 | 11.124 | 11.129 | -0.005 | 92 | 1177737 | 10.0 | |
| | 53 Trichloroethene | 95 | | 11.497 | | | | ND | |
| | 54 1,2-Dichloropropane | 63 | | 11.866 | | | | ND | |
| | 55 Methyl methacrylate | 69 | | 11.903 | | | | ND | |
| | 56 1,4-Dioxane | 88 | | 11.999 | | | | ND | |
| | 57 Dibromomethane | 174 | | 12.052 | | | | ND | |
| | 58 Dichlorobromomethane | 83 | | 12.229 | | | | ND | |
| | 60 cis-1,3-Dichloropropene | 75 | | 12.853 | | | | ND | |
| | 61 4-Methyl-2-pentanone (MIBK | 43 | | 13.002 | | | | ND | |
| | 64 Toluene | 92 | | 13.285 | | | | ND | |
| | 66 trans-1,3-Dichloropropene | 75 | | 13.643 | | | | ND | |
| | 67 1,1,2-Trichloroethane | 83 | | 13.915 | | | | ND | |
| | 68 Tetrachloroethene | 166 | | 14.054 | | | | ND | |
| | 69 2-Hexanone | 43 | | 14.182 | | | | ND | |
| | 70 Chlorodibromomethane | 129 | | 14.470 | | | | ND | |
| | 71 Ethylene Dibromide | 107 | | 14.673 | | | | ND | |
| * | 72 Chlorobenzene-d5 | 117 | 15.228 | 15.233 | -0.005 | 82 | 966678 | 10.0 | |
| | 73 Chlorobenzene | 112 | | 15.271 | | | | ND | |
| | 74 Ethylbenzene | 91 | | 15.340 | | | | ND | |
| | 76 m-Xylene & p-Xylene | 106 | | 15.484 | | | | ND | |
| | 78 o-Xylene | 106 | | 15.996 | | | | ND | |
| S | 77 Xylenes, Total | 106 | | 16.000 | | | | ND | |
| | 79 Styrene | 104 | | 16.023 | | | | ND | |
| | 80 Bromoform | 173 | | 16.311 | | | | ND | |
| | 81 Isopropylbenzene | 105 | | 16.407 | | | | ND | |
| | 83 1,1,2,2-Tetrachloroethane | 83 | | 16.813 | | | | ND | |
| | 84 N-Propylbenzene | 91 | | 16.888 | | | | ND | |
| | 87 4-Ethyltoluene | 105 | | 17.010 | | | | ND | |
| | 88 2-Chlorotoluene | 91 | | 17.053 | | | | ND | |
| | 89 1,3,5-Trimethylbenzene | 105 | | 17.080 | | | | ND | |
| | 91 tert-Butylbenzene | 119 | | 17.453 | | | | ND | |
| | 92 1,2,4-Trimethylbenzene | 105 | | 17.523 | | | | ND | |
| | 93 sec-Butylbenzene | 105 | | 17.710 | | | | ND | |
| | 94 4-Isopropyltoluene | 119 | | 17.864 | | | | ND | |
| | 95 1,3-Dichlorobenzene | 146 | | 17.944 | | | | ND | |
| | 96 1,4-Dichlorobenzene | 146 | | 18.057 | | | | ND | |
| | 97 Benzyl chloride | 91 | | 18.206 | | | | ND | |
| | 99 n-Butylbenzene | 91 | | 18.371 | | | | ND | |
| | 100 1,2-Dichlorobenzene | 146 | | 18.542 | | | | ND | |
| | 103 1,2,4-Trichlorobenzene | 180 | | 20.906 | | | | ND | |
| | 104 Hexachlorobutadiene | 225 | | 21.067 | | | | ND | |
| | 105 Naphthalene | 128 | | 21.387 | | | | ND | |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

## Reagents:

ATTO15BISs_00006 Amount Added: 20.00 Units: mL Run Reagent

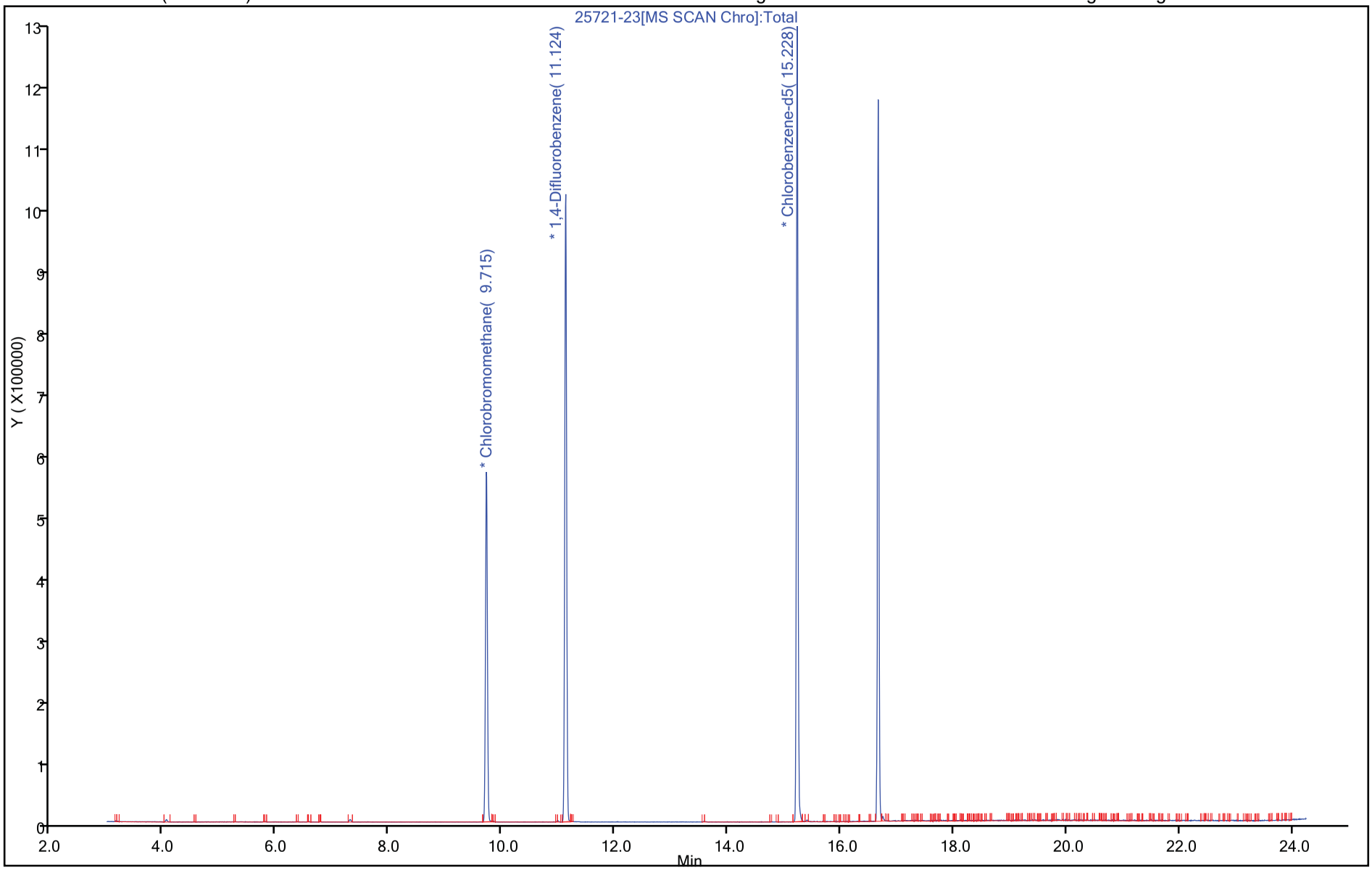
Report Date: 03-Jul-2017 10:03:25 Chrom Revision: 2.2 26-Jun-2017 09:07:56

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20170630-25721.b\25721-23.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 01-Jul-2017 05:27:30 | Instrument ID: | CHB.i | Operator ID: | pad |
| Lims ID: | 200-39070-A-1 | Lab Sample ID: | 200-39070-1 | Worklist Smp#: | 23 |
| Client ID: | 4916 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 23 |
| Method: | TO15_LLNJ_TO3 | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-39960-1

SDG No.:

Client Sample ID: 5027 Lab Sample ID: 200-39960-5

Matrix: Air Lab File ID: 200-26775-020.D

Analysis Method: TO-15 Date Collected: 09/06/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 09/08/2017 01:58

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120665 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 115-07-1 | Propylene | 1.0 | U | 1.0 | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | 0.10 | U | 0.10 | 0.10 |
| 75-45-6 | Freon 22 | 0.10 | U | 0.10 | 0.10 |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.10 | 0.10 |
| 106-97-8 | n-Butane | 0.10 | U | 0.10 | 0.10 |
| 75-01-4 | Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 106-99-0 | 1,3-Butadiene | 0.040 | U | 0.040 | 0.040 |
| 74-83-9 | Bromomethane | 0.040 | U | 0.040 | 0.040 |
| 75-00-3 | Chloroethane | 0.10 | U | 0.10 | 0.10 |
| 593-60-2 | Bromoethene(Vinyl Bromide) | 0.040 | U | 0.040 | 0.040 |
| 75-69-4 | Trichlorofluoromethane | 0.040 | U | 0.040 | 0.040 |
| 64-17-5 | Ethanol | 1.0 | U | 1.0 | 1.0 |
| 76-13-1 | Freon TF | 0.040 | U | 0.040 | 0.040 |
| 75-35-4 | 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 67-64-1 | Acetone | 1.0 | U | 1.0 | 1.0 |
| 67-63-0 | Isopropyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 75-15-0 | Carbon disulfide | 0.10 | U | 0.10 | 0.10 |
| 107-05-1 | 3-Chloropropene | 0.10 | U | 0.10 | 0.10 |
| 75-09-2 | Methylene Chloride | 0.10 | U | 0.10 | 0.10 |
| 75-65-0 | tert-Butyl alcohol | 1.0 | U | 1.0 | 1.0 |
| 1634-04-4 | Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 110-54-3 | n-Hexane | 0.040 | U | 0.040 | 0.040 |
| 75-34-3 | 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 108-05-4 | Vinyl acetate | 1.0 | U | 1.0 | 1.0 |
| 141-78-6 | Ethyl acetate | 1.0 | U | 1.0 | 1.0 |
| 78-93-3 | Methyl Ethyl Ketone | 0.10 | U | 0.10 | 0.10 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 540-59-0 | 1,2-Dichloroethene, Total | 0.080 | U | 0.080 | 0.080 |
| 67-66-3 | Chloroform | 0.040 | U | 0.040 | 0.040 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 1.0 | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 110-82-7 | Cyclohexane | 0.040 | U | 0.040 | 0.040 |
| 56-23-5 | Carbon tetrachloride | 0.040 | U | 0.040 | 0.040 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39960-1

SDG No.:

Client Sample ID: 5027  Lab Sample ID: 200-39960-5

Matrix: Air  Lab File ID: 200-26775-020.D

Analysis Method: TO-15  Date Collected: 09/06/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 09/08/2017 01:58

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 120665  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 0.040 | U | 0.040 | 0.040 |
| 107-06-2 | 1,2-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| 142-82-5 | n-Heptane | 0.040 | U | 0.040 | 0.040 |
| 79-01-6 | Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 80-62-6 | Methyl methacrylate | 0.10 | U | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.040 | U | 0.040 | 0.040 |
| 123-91-1 | 1,4-Dioxane | 1.0 | U | 1.0 | 1.0 |
| 75-27-4 | Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 108-10-1 | methyl isobutyl ketone | 0.10 | U | 0.10 | 0.10 |
| 108-88-3 | Toluene | 0.040 | U | 0.040 | 0.040 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| 127-18-4 | Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| 591-78-6 | Methyl Butyl Ketone (2-Hexanone) | 0.10 | U | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 106-93-4 | 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| 108-90-7 | Chlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 100-41-4 | Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene | 0.10 | U | 0.10 | 0.10 |
| 95-47-6 | Xylene, o- | 0.040 | U | 0.040 | 0.040 |
| 1330-20-7 | Xylene (total) | 0.14 | U | 0.14 | 0.14 |
| 100-42-5 | Styrene | 0.040 | U | 0.040 | 0.040 |
| 75-25-2 | Bromoform | 0.040 | U | 0.040 | 0.040 |
| 98-82-8 | Cumene | 0.040 | U | 0.040 | 0.040 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 103-65-1 | n-Propylbenzene | 0.040 | U | 0.040 | 0.040 |
| 622-96-8 | 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-49-8 | 2-Chlorotoluene | 0.040 | U | 0.040 | 0.040 |
| 98-06-6 | tert-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.040 | U | 0.040 | 0.040 |
| 135-98-8 | sec-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 99-87-6 | 4-Isopropyltoluene | 0.040 | U | 0.040 | 0.040 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington  Job No.: 200-39960-1

SDG No.:

Client Sample ID: 5027  Lab Sample ID: 200-39960-5

Matrix: Air  Lab File ID: 200-26775-020.D

Analysis Method: TO-15  Date Collected: 09/06/2017 00:00

Sample wt/vol: 1000(mL)  Date Analyzed: 09/08/2017 01:58

Soil Aliquot Vol:  Dilution Factor: 0.2

Soil Extract Vol.:  GC Column: RTX-624  ID: 0.32(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 120665  Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | RL |
|---|---|---|---|---|---|
| 100-44-7 | Benzyl chloride | 0.040 | U | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene | 0.040 | U | 0.040 | 0.040 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.040 | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10 | U | 0.10 | 0.10 |
| 87-68-3 | Hexachlorobutadiene | 0.040 | U | 0.040 | 0.040 |
| 91-20-3 | Naphthalene | 0.10 | U | 0.10 | 0.10 |

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20170907-26775.b\200-26775-020.D
Lims ID: 200-39960-A-5
Client ID: 5027
Sample Type: Client
Inject. Date: 08-Sep-2017 01:58:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0026775-020
Misc. Info.: 39960-05
Operator ID: vtp Instrument ID: CHG.i

Method: \\ChromNA\Burlington\ChromData\CHG.i\20170907-26775.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 08-Sep-2017 13:52:36 Calib Date: 24-Aug-2017 23:17:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20170824-26567.b\200-26567-010.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: puangmaleek Date: 08-Sep-2017 13:52:36

| | Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Propene | 41 | | 3.123 | | | | ND | |
| 2 | Dichlorodifluoromethane | 85 | | 3.176 | | | | ND | |
| 3 | Chlorodifluoromethane | 51 | | 3.219 | | | | ND | |
| 4 | 1,2-Dichloro-1,1,2,2-tetra | 85 | | 3.390 | | | | ND | |
| 5 | Chloromethane | 50 | | 3.513 | | | | ND | |
| 6 | Butane | 43 | | 3.663 | | | | ND | |
| 7 | Vinyl chloride | 62 | | 3.706 | | | | ND | |
| 8 | Butadiene | 54 | | 3.765 | | | | ND | |
| 10 | Bromomethane | 94 | | 4.316 | | | | ND | |
| 11 | Chloroethane | 64 | | 4.497 | | | | ND | |
| 13 | Vinyl bromide | 106 | | 4.818 | | | | ND | |
| 14 | Trichlorofluoromethane | 101 | | 4.888 | | | | ND | |
| 17 | Ethanol | 45 | | 5.364 | | | | ND | |
| 20 | 1,1,2-Trichloro-1,2,2-trif | 101 | | 5.771 | | | | ND | |
| 21 | 1,1-Dichloroethene | 96 | | 5.835 | | | | ND | |
| 22 | Acetone | 43 | | 6.060 | | | | ND | |
| 23 | Carbon disulfide | 76 | | 6.204 | | | | ND | |
| 24 | Isopropyl alcohol | 45 | | 6.290 | | | | ND | |
| 25 | 3-Chloro-1-propene | 41 | | 6.520 | | | | ND | |
| 27 | Methylene Chloride | 49 | 6.776 | 6.776 | 0.000 | 1 | 507 | 0.0177 | 7 |
| 28 | 2-Methyl-2-propanol | 59 | | 6.985 | | | | ND | |
| 29 | Methyl tert-butyl ether | 73 | | 7.151 | | | | ND | |
| 31 | trans-1,2-Dichloroethene | 61 | | 7.172 | | | | ND | |
| 33 | Hexane | 57 | | 7.504 | | | | ND | |
| 34 | 1,1-Dichloroethane | 63 | | 7.985 | | | | ND | |
| 35 | Vinyl acetate | 43 | | 8.044 | | | | ND | |
| 37 | cis-1,2-Dichloroethene | 96 | | 9.013 | | | | ND | |
| 38 | 2-Butanone (MEK) | 72 | | 9.087 | | | | ND | |
| 39 | Ethyl acetate | 88 | | 9.104 | | | | ND | |
| * 40 | Chlorobromomethane | 128 | 9.451 | 9.462 | -0.011 | 81 | 311160 | 10.0 | |
| 41 | Tetrahydrofuran | 42 | | 9.494 | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---|---|---|---|---|---|---|---|---|
| 42 Chloroform | 83 | | 9.569 | | | | ND | |
| S 30 1,2-Dichloroethene, Total | 61 | | 9.665 | | | | ND | |
| 43 Cyclohexane | 84 | | 9.810 | | | | ND | |
| 44 1,1,1-Trichloroethane | 97 | | 9.842 | | | | ND | |
| 45 Carbon tetrachloride | 117 | | 10.077 | | | | ND | |
| 46 Isooctane | 57 | | 10.484 | | | | ND | |
| 47 Benzene | 78 | | 10.543 | | | | ND | |
| 48 1,2-Dichloroethane | 62 | | 10.730 | | | | ND | |
| 49 n-Heptane | 43 | | 10.858 | | | | ND | |
| * 50 1,4-Difluorobenzene | 114 | 11.361 | 11.361 | 0.000 | 95 | 1548649 | 10.0 | |
| 53 Trichloroethene | 95 | | 11.821 | | | | ND | |
| 54 1,2-Dichloropropane | 63 | | 12.378 | | | | ND | |
| 55 Methyl methacrylate | 69 | | 12.554 | | | | ND | |
| 56 1,4-Dioxane | 88 | | 12.629 | | | | ND | |
| 57 Dibromomethane | 174 | | 12.629 | | | | ND | |
| 58 Dichlorobromomethane | 83 | | 12.913 | | | | ND | |
| 60 cis-1,3-Dichloropropene | 75 | | 13.838 | | | | ND | |
| 61 4-Methyl-2-pentanone (MIBK | 43 | | 14.154 | | | | ND | |
| 65 Toluene | 92 | | 14.416 | | | | ND | |
| 66 trans-1,3-Dichloropropene | 75 | | 15.020 | | | | ND | |
| 67 1,1,2-Trichloroethane | 83 | | 15.395 | | | | ND | |
| 68 Tetrachloroethene | 166 | | 15.480 | | | | ND | |
| 69 2-Hexanone | 43 | | 15.876 | | | | ND | |
| 71 Chlorodibromomethane | 129 | | 16.149 | | | | ND | |
| 72 Ethylene Dibromide | 107 | | 16.422 | | | | ND | |
| * 74 Chlorobenzene-d5 | 117 | 17.321 | 17.321 | 0.000 | 89 | 1315851 | 10.0 | |
| 75 Chlorobenzene | 112 | | 17.385 | | | | ND | |
| 76 Ethylbenzene | 91 | | 17.540 | | | | ND | |
| 78 m-Xylene & p-Xylene | 106 | | 17.797 | | | | ND | |
| 79 o-Xylene | 106 | | 18.653 | | | | ND | |
| 80 Styrene | 104 | | 18.712 | | | | ND | |
| 81 Bromoform | 173 | | 19.156 | | | | ND | |
| 82 Isopropylbenzene | 105 | | 19.380 | | | | ND | |
| S 73 Xylenes, Total | 106 | | 19.600 | | | | ND | |
| 84 1,1,2,2-Tetrachloroethane | 83 | | 20.081 | | | | ND | |
| 85 N-Propylbenzene | 91 | | 20.145 | | | | ND | |
| 89 2-Chlorotoluene | 91 | | 20.343 | | | | ND | |
| 88 4-Ethyltoluene | 105 | | 20.343 | | | | ND | |
| 90 1,3,5-Trimethylbenzene | 105 | | 20.456 | | | | ND | |
| 92 tert-Butylbenzene | 119 | | 20.964 | | | | ND | |
| 93 1,2,4-Trimethylbenzene | 105 | | 21.060 | | | | ND | |
| 94 sec-Butylbenzene | 105 | | 21.301 | | | | ND | |
| 95 4-Isopropyltoluene | 119 | | 21.509 | | | | ND | |
| 96 1,3-Dichlorobenzene | 146 | | 21.531 | | | | ND | |
| 97 1,4-Dichlorobenzene | 146 | | 21.670 | | | | ND | |
| 98 Benzyl chloride | 91 | | 21.879 | | | | ND | |
| 100 n-Butylbenzene | 91 | | 22.087 | | | | ND | |
| 101 1,2-Dichlorobenzene | 146 | | 22.205 | | | | ND | |
| 103 1,2,4-Trichlorobenzene | 180 | | 24.660 | | | | ND | |
| 104 Hexachlorobutadiene | 225 | | 24.842 | | | | ND | |
| 105 Naphthalene | 128 | | 25.137 | | | | ND | |

## QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

## Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

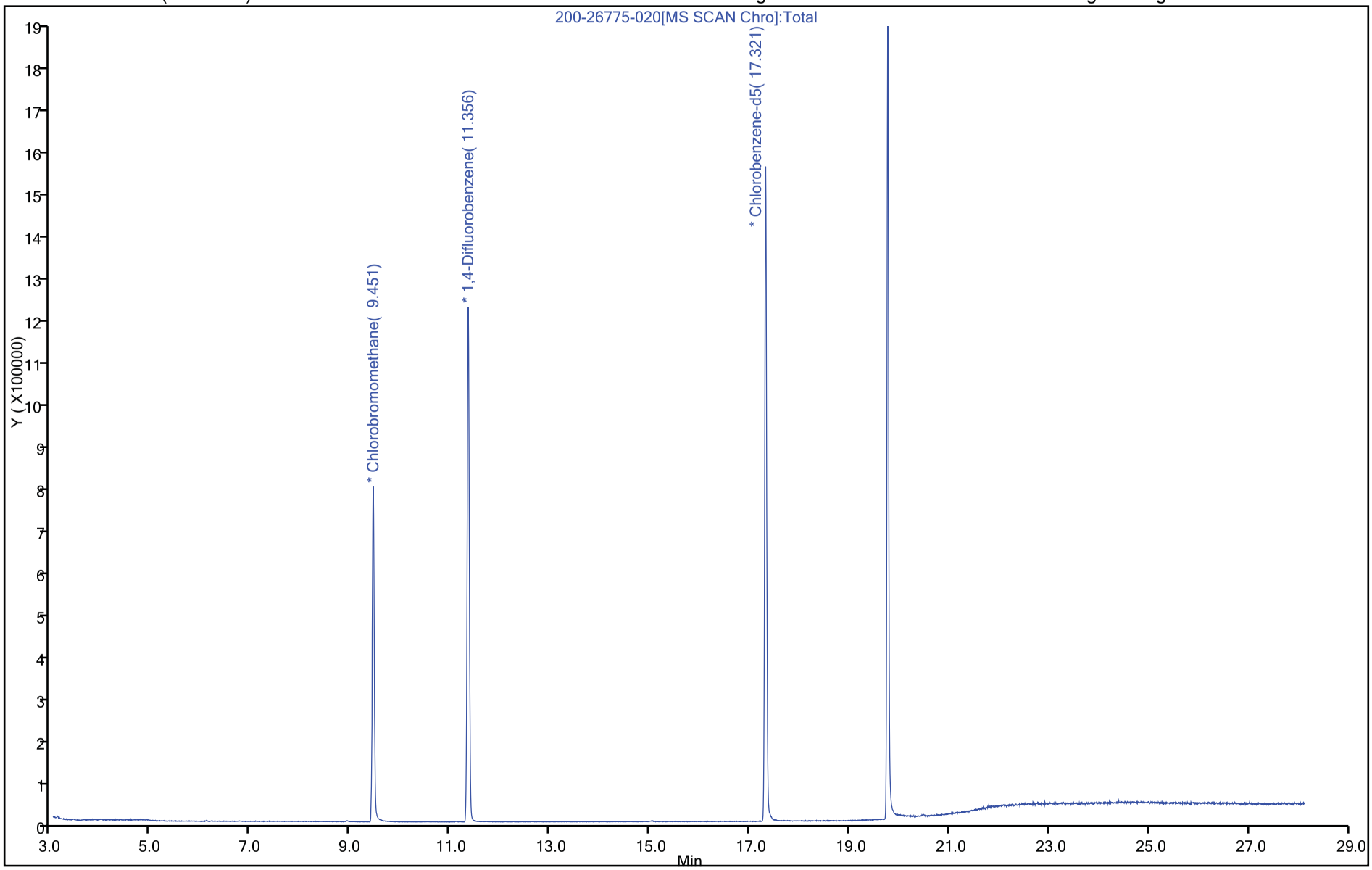
Report Date: 08-Sep-2017 13:52:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20170907-26775.b\200-26775-020.D

| | | | | | |
|---|---|---|---|---|---|
| Injection Date: | 08-Sep-2017 01:58:30 | Instrument ID: | CHG.i | Operator ID: | vtp |
| Lims ID: | 200-39960-A-5 | Lab Sample ID: | 200-39960-5 | Worklist Smp#: | 20 |
| Client ID: | 5027 | | | | |
| Purge Vol: | 200.000 mL | Dil. Factor: | 0.2000 | ALS Bottle#: | 19 |
| Method: | TO15_MasterMethod_(v1)_G | Limit Group: | AI_TO15_ICAL | | |

Column: RTX-624 ( 0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-125383-1
Client Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Adam Zebrowski

*Authorized for release by:*
*10/19/2017 12:15:34 PM*
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
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melissa.deyo@testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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# Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

## Job ID: 480-125383-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-125383-1**

**Receipt**
The samples were received on 10/5/2017 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

**GC/MS VOA**
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-381007 recovered above the upper control limit for 2-Butanone (MEK) and Carbon disulfide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-23 0.6-2FT (480-125383-1), SB-25 0.6-2FT (480-125383-3) and SB-25 2-4FT (480-125383-4).

Method(s) 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with batch 480-381007. The following samples were affected : SB-23 0.6-2FT (480-125383-1), SB-25 0.6-2FT (480-125383-3) and SB-25 2-4FT (480-125383-4).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-381443 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: SB-24 0.6-2FT (480-125383-2), SB-26 0.6-2FT (480-125383-5), SB-27 4-6FT (480-125383-6), SB-28 0.6-2FT (480-125383-7) and SB-29 0.6-2FT (480-125383-8).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-381658 recovered outside acceptance criteria, low biased, for Methylene Chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-381658 recovered above the upper control limit for 2-Hexanone and Cyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-23 0.6-2FT (480-125383-1), SB-25 0.6-2FT (480-125383-3) and SB-25 2-4FT (480-125383-4).

Method(s) 8260C: The following samples was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-23 0.6-2FT (480-125383-1), SB-25 0.6-2FT (480-125383-3) and SB-25 2-4FT (480-125383-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-382070 recovered outside control limits for the following analytes: 2-Hexanone, Cyclohexane, 1,2-Dichloroethane, Methyl acetate, 1,2-Dichloropropane, and 1,1,-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: SB-24 0.6-2FT (480-125383-2) and SB-26 0.6-2FT (480-125383-5)

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-382131 recovered above the upper control limit for 2-Hexanone and Cyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SB-24 0.6-2FT (480-125383-2) and SB-26 0.6-2FT (480-125383-5).

Method(s) 8260C: The following samples were analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-24 0.6-2FT (480-125383-2) and SB-26 0.6-2FT (480-125383-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Client Sample ID: SB-23 0.6-2FT — Lab Sample ID: 480-125383-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 43 | | 21 | 3.6 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 56 | | 4.2 | 0.54 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 2.3 | J | 4.2 | 0.44 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Trichloroethene | 44 | | 4.2 | 0.93 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 6200 | | 240 | 32 | ug/Kg | 8 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-24 0.6-2FT — Lab Sample ID: 480-125383-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 23 | | 14 | 2.3 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 29 | | 2.7 | 0.35 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 0.30 | J | 2.7 | 0.28 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Trichloroethene | 8.1 | | 2.7 | 0.60 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 64000 | | 1400 | 190 | ug/Kg | 40 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-25 0.6-2FT — Lab Sample ID: 480-125383-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 10 | | 3.3 | 0.41 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Acetone | 40 | | 17 | 2.8 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Chlorobenzene | 4.9 | | 3.3 | 0.44 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Ethylbenzene | 1.9 | J | 3.3 | 0.23 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Toluene | 7.0 | | 3.3 | 0.25 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 27 | | 3.3 | 0.34 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Vinyl chloride | 4.1 | | 3.3 | 0.40 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 7.3 | | 6.6 | 0.56 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 140000 | | 3500 | 470 | ug/Kg | 100 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-25 2-4FT — Lab Sample ID: 480-125383-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.9 | | 2.1 | 0.26 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 1.9 | J | 11 | 0.69 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Acetone | 38 | | 11 | 1.8 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Chlorobenzene | 5.7 | | 2.1 | 0.28 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Ethylbenzene | 4.7 | | 2.1 | 0.15 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Isopropylbenzene | 0.59 | J | 2.1 | 0.32 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Toluene | 15 | | 2.1 | 0.16 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 11 | | 2.1 | 0.22 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Vinyl chloride | 35 | | 2.1 | 0.26 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Xylenes, Total | 22 | | 4.2 | 0.35 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 7600 | | 950 | 260 | ug/Kg | 25 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 49000 | | 950 | 130 | ug/Kg | 25 | ☼ | 8260C | Total/NA |
| Trichloroethene - DL | 1900 | | 950 | 260 | ug/Kg | 25 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-26 0.6-2FT — Lab Sample ID: 480-125383-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 6.2 | J | 12 | 2.0 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 14 | | 2.4 | 0.31 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: SB-26 0.6-2FT (Continued) — Lab Sample ID: 480-125383-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 4.1 | | 2.4 | 0.53 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene - DL | 7700 | | 150 | 21 | ug/Kg | 5 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-27 4-6FT — Lab Sample ID: 480-125383-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 14 | | 13 | 2.1 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 0.90 | J | 2.5 | 0.32 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 15 | B | 2.5 | 0.34 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-28 0.6-2FT — Lab Sample ID: 480-125383-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25 | | 17 | 2.9 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 0.45 | J | 3.5 | 0.44 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 6.4 | B | 3.5 | 0.47 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

## Client Sample ID: SB-29 0.6-2FT — Lab Sample ID: 480-125383-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 37 | | 16 | 2.8 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 24 | | 3.3 | 0.42 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Cyclohexane | 0.70 | J | 3.3 | 0.46 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Tetrachloroethene | 0.99 | J B | 3.3 | 0.44 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 1.5 | J | 3.3 | 0.34 | ug/Kg | 1 | ☼ | 8260C | Total/NA |
| Vinyl chloride | 2.4 | J | 3.3 | 0.40 | ug/Kg | 1 | ☼ | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

**Client Sample ID: SB-23 0.6-2FT**
**Date Collected: 10/05/17 10:45**
**Date Received: 10/05/17 18:20**

**Lab Sample ID: 480-125383-1**
**Matrix: Solid**
**Percent Solids: 84.6**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 4.2 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.2 | 0.69 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.2 | 0.55 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.2 | 0.97 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,1-Dichloroethane | ND | | 4.2 | 0.52 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,1-Dichloroethene | ND | | 4.2 | 0.52 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.2 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.2 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 4.2 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2-Dichloroethane | ND | | 4.2 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2-Dichloropropane | ND | | 4.2 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 4.2 | 0.22 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.2 | 0.59 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 2-Butanone (MEK) | ND | * | 21 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 2-Hexanone | ND | | 21 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 21 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| **Acetone** | **43** | | 21 | 3.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Benzene | ND | | 4.2 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Bromodichloromethane | ND | | 4.2 | 0.57 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Bromoform | ND | | 4.2 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Bromomethane | ND | | 4.2 | 0.38 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Carbon disulfide | ND | | 4.2 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Carbon tetrachloride | ND | | 4.2 | 0.41 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Chlorobenzene | ND | | 4.2 | 0.56 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Dibromochloromethane | ND | | 4.2 | 0.54 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Chloroethane | ND | | 4.2 | 0.96 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Chloroform | ND | | 4.2 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Chloromethane | ND | | 4.2 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| **cis-1,2-Dichloroethene** | **56** | | 4.2 | 0.54 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.2 | 0.61 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Cyclohexane | ND | | 4.2 | 0.59 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Dichlorodifluoromethane | ND | | 4.2 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Ethylbenzene | ND | | 4.2 | 0.29 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| 1,2-Dibromoethane | ND | | 4.2 | 0.54 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Isopropylbenzene | ND | | 4.2 | 0.64 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Methyl acetate | ND | | 21 | 2.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Methyl tert-butyl ether | ND | | 4.2 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Methylcyclohexane | ND | | 4.2 | 0.64 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Methylene Chloride | ND | | 4.2 | 1.9 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Styrene | ND | | 4.2 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Toluene | ND | | 4.2 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| **trans-1,2-Dichloroethene** | **2.3** | **J** | 4.2 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.2 | 1.9 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| **Trichloroethene** | **44** | | 4.2 | 0.93 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Trichlorofluoromethane | ND | | 4.2 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Vinyl chloride | ND | | 4.2 | 0.52 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |
| Xylenes, Total | ND | | 8.5 | 0.71 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 16:13 | 1 |

## Client Sample ID: SB-23 0.6-2FT

**Lab Sample ID: 480-125383-1**

**Date Collected: 10/05/17 10:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 84.6**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *100* | | *71 - 125* | *10/06/17 01:30* | *10/10/17 16:13* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *64 - 126* | *10/06/17 01:30* | *10/10/17 16:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *72 - 126* | *10/06/17 01:30* | *10/10/17 16:13* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 140* | *10/06/17 01:30* | *10/10/17 16:13* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **6200** | | 240 | 32 | ug/Kg | ☼ | 10/12/17 11:14 | 10/13/17 19:28 | 8 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *10/12/17 11:14* | *10/13/17 19:28* | *8* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *53 - 146* | *10/12/17 11:14* | *10/13/17 19:28* | *8* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *49 - 148* | *10/12/17 11:14* | *10/13/17 19:28* | *8* |
| *Dibromofluoromethane (Surr)* | *89* | | *60 - 140* | *10/12/17 11:14* | *10/13/17 19:28* | *8* |

## Client Sample ID: SB-24 0.6-2FT

**Lab Sample ID: 480-125383-2**

**Date Collected: 10/05/17 11:30**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 92.0**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.7 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.7 | 0.62 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,1-Dichloroethane | ND | | 2.7 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,1-Dichloroethene | ND | | 2.7 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.7 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.7 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2-Dichloroethane | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2-Dichloropropane | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.7 | 0.38 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 2-Butanone (MEK) | ND | | 14 | 1.0 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 2-Hexanone | ND | | 14 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 14 | 0.89 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| **Acetone** | **23** | | 14 | 2.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Benzene | ND | | 2.7 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Bromodichloromethane | ND | | 2.7 | 0.37 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Bromoform | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Bromomethane | ND | | 2.7 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Carbon disulfide | ND | | 2.7 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Carbon tetrachloride | ND | | 2.7 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Chlorobenzene | ND | | 2.7 | 0.36 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Dibromochloromethane | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Chloroethane | ND | | 2.7 | 0.62 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Chloroform | ND | | 2.7 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Chloromethane | ND | | 2.7 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| **cis-1,2-Dichloroethene** | **29** | | 2.7 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.7 | 0.39 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |

## Client Sample ID: SB-24 0.6-2FT

**Date Collected: 10/05/17 11:30**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-2

**Matrix: Solid**
**Percent Solids: 92.0**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyclohexane | ND | | 2.7 | 0.38 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Dichlorodifluoromethane | ND | | 2.7 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Ethylbenzene | ND | | 2.7 | 0.19 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| 1,2-Dibromoethane | ND | | 2.7 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Isopropylbenzene | ND | | 2.7 | 0.41 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Methyl acetate | ND | | 14 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Methyl tert-butyl ether | ND | | 2.7 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Methylcyclohexane | ND | | 2.7 | 0.41 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Methylene Chloride | ND | | 2.7 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Styrene | ND | | 2.7 | 0.14 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Toluene | ND | | 2.7 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| **trans-1,2-Dichloroethene** | **0.30** | **J** | 2.7 | 0.28 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.7 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| **Trichloroethene** | **8.1** | | 2.7 | 0.60 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Trichlorofluoromethane | ND | | 2.7 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Vinyl chloride | ND | | 2.7 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |
| Xylenes, Total | ND | | 5.5 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 20:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *71 - 125* | *10/06/17 01:30* | *10/12/17 20:37* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *64 - 126* | *10/06/17 01:30* | *10/12/17 20:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *72 - 126* | *10/06/17 01:30* | *10/12/17 20:37* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 140* | *10/06/17 01:30* | *10/12/17 20:37* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **64000** | | 1400 | 190 | ug/Kg | ☼ | 10/16/17 16:26 | 10/17/17 19:20 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *10/16/17 16:26* | *10/17/17 19:20* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *110* | | *53 - 146* | *10/16/17 16:26* | *10/17/17 19:20* | *40* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *49 - 148* | *10/16/17 16:26* | *10/17/17 19:20* | *40* |
| *Dibromofluoromethane (Surr)* | *90* | | *60 - 140* | *10/16/17 16:26* | *10/17/17 19:20* | *40* |

## Client Sample ID: SB-25 0.6-2FT

**Date Collected: 10/05/17 12:00**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-3

**Matrix: Solid**
**Percent Solids: 86.8**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 3.3 | 0.24 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.3 | 0.54 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.3 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.3 | 0.76 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,1-Dichloroethane | ND | | 3.3 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **1,1-Dichloroethene** | **10** | | 3.3 | 0.41 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.3 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.3 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,2-Dichloroethane | ND | | 3.3 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |

**Client Sample ID: SB-25 0.6-2FT**
**Date Collected: 10/05/17 12:00**
**Date Received: 10/05/17 18:20**

**Lab Sample ID: 480-125383-3**
**Matrix: Solid**
**Percent Solids: 86.8**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | | 3.3 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.3 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.3 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 2-Butanone (MEK) | ND | * | 17 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 2-Hexanone | ND | | 17 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 17 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Acetone** | **40** | | 17 | 2.8 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Benzene | ND | | 3.3 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Bromodichloromethane | ND | | 3.3 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Bromoform | ND | | 3.3 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Bromomethane | ND | | 3.3 | 0.30 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Carbon disulfide | ND | | 3.3 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Carbon tetrachloride | ND | | 3.3 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Chlorobenzene** | **4.9** | | 3.3 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Dibromochloromethane | ND | | 3.3 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Chloroethane | ND | | 3.3 | 0.75 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Chloroform | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Chloromethane | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.3 | 0.48 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Cyclohexane | ND | | 3.3 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Dichlorodifluoromethane | ND | | 3.3 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Ethylbenzene** | **1.9** | **J** | 3.3 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| 1,2-Dibromoethane | ND | | 3.3 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Isopropylbenzene | ND | | 3.3 | 0.50 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Methyl acetate | ND | | 17 | 2.0 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Methyl tert-butyl ether | ND | | 3.3 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Methylcyclohexane | ND | | 3.3 | 0.50 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Methylene Chloride | ND | | 3.3 | 1.5 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Styrene | ND | | 3.3 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Toluene** | **7.0** | | 3.3 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **trans-1,2-Dichloroethene** | **27** | | 3.3 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.3 | 1.5 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| Trichlorofluoromethane | ND | | 3.3 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Vinyl chloride** | **4.1** | | 3.3 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |
| **Xylenes, Total** | **7.3** | | 6.6 | 0.56 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *108* | | *71 - 125* | *10/06/17 01:30* | *10/10/17 17:04* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *64 - 126* | *10/06/17 01:30* | *10/10/17 17:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *72 - 126* | *10/06/17 01:30* | *10/10/17 17:04* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 140* | *10/06/17 01:30* | *10/10/17 17:04* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **140000** | | 3500 | 470 | ug/Kg | ☼ | 10/12/17 11:14 | 10/13/17 19:55 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *95* | | *50 - 149* | *10/12/17 11:14* | *10/13/17 19:55* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *53 - 146* | *10/12/17 11:14* | *10/13/17 19:55* | *100* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *49 - 148* | *10/12/17 11:14* | *10/13/17 19:55* | *100* |

## Client Sample ID: SB-25 0.6-2FT

**Lab Sample ID: 480-125383-3**
**Date Collected: 10/05/17 12:00**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 86.8**

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | 90 | | 60 - 140 | 10/12/17 11:14 | 10/13/17 19:55 | 100 |

## Client Sample ID: SB-25 2-4FT

**Lab Sample ID: 480-125383-4**
**Date Collected: 10/05/17 12:00**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 88.1**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.1 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.1 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.1 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.1 | 0.48 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,1-Dichloroethane | ND | | 2.1 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **1,1-Dichloroethene** | **5.9** | | 2.1 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.1 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.1 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.1 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2-Dichloroethane | ND | | 2.1 | 0.11 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2-Dichloropropane | ND | | 2.1 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.1 | 0.11 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.1 | 0.30 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 2-Butanone (MEK) | ND | * | 11 | 0.77 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 2-Hexanone | ND | | 11 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **4-Methyl-2-pentanone (MIBK)** | **1.9** | **J** | 11 | 0.69 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Acetone** | **38** | | 11 | 1.8 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Benzene | ND | | 2.1 | 0.10 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Bromodichloromethane | ND | | 2.1 | 0.28 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Bromoform | ND | | 2.1 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Bromomethane | ND | | 2.1 | 0.19 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Carbon disulfide | ND | | 2.1 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Carbon tetrachloride | ND | | 2.1 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Chlorobenzene** | **5.7** | | 2.1 | 0.28 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Dibromochloromethane | ND | | 2.1 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Chloroethane | ND | | 2.1 | 0.48 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Chloroform | ND | | 2.1 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Chloromethane | ND | | 2.1 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.1 | 0.30 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Cyclohexane | ND | | 2.1 | 0.30 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Dichlorodifluoromethane | ND | | 2.1 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Ethylbenzene** | **4.7** | | 2.1 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| 1,2-Dibromoethane | ND | | 2.1 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Isopropylbenzene** | **0.59** | **J** | 2.1 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Methyl acetate | ND | | 11 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Methyl tert-butyl ether | ND | | 2.1 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Methylcyclohexane | ND | | 2.1 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Methylene Chloride | ND | | 2.1 | 0.97 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Styrene | ND | | 2.1 | 0.11 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Toluene** | **15** | | 2.1 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **trans-1,2-Dichloroethene** | **11** | | 2.1 | 0.22 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |

## Client Sample ID: SB-25 2-4FT

**Lab Sample ID: 480-125383-4**
**Date Collected: 10/05/17 12:00**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 88.1**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 2.1 | 0.93 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| Trichlorofluoromethane | ND | | 2.1 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Vinyl chloride** | **35** | | 2.1 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |
| **Xylenes, Total** | **22** | | 4.2 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/10/17 17:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *122* | | *71 - 125* | *10/06/17 01:30* | *10/10/17 17:30* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 126* | *10/06/17 01:30* | *10/10/17 17:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *72 - 126* | *10/06/17 01:30* | *10/10/17 17:30* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 140* | *10/06/17 01:30* | *10/10/17 17:30* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **cis-1,2-Dichloroethene** | **7600** | | 950 | 260 | ug/Kg | ☼ | 10/12/17 11:14 | 10/13/17 20:22 | 25 |
| **Tetrachloroethene** | **49000** | | 950 | 130 | ug/Kg | ☼ | 10/12/17 11:14 | 10/13/17 20:22 | 25 |
| **Trichloroethene** | **1900** | | 950 | 260 | ug/Kg | ☼ | 10/12/17 11:14 | 10/13/17 20:22 | 25 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *10/12/17 11:14* | *10/13/17 20:22* | *25* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *53 - 146* | *10/12/17 11:14* | *10/13/17 20:22* | *25* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *49 - 148* | *10/12/17 11:14* | *10/13/17 20:22* | *25* |
| *Dibromofluoromethane (Surr)* | *95* | | *60 - 140* | *10/12/17 11:14* | *10/13/17 20:22* | *25* |

## Client Sample ID: SB-26 0.6-2FT

**Lab Sample ID: 480-125383-5**
**Date Collected: 10/05/17 12:55**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 92.3**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.4 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.4 | 0.39 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.4 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.4 | 0.55 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,1-Dichloroethane | ND | | 2.4 | 0.29 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,1-Dichloroethene | ND | | 2.4 | 0.29 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.4 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.4 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | 0.19 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2-Dichloroethane | ND | | 2.4 | 0.12 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2-Dichloropropane | ND | | 2.4 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | 0.12 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 2-Butanone (MEK) | ND | | 12 | 0.88 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 2-Hexanone | ND | | 12 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 12 | 0.79 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| **Acetone** | **6.2** | **J** | 12 | 2.0 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Benzene | ND | | 2.4 | 0.12 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Bromodichloromethane | ND | | 2.4 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Bromoform | ND | | 2.4 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Bromomethane | ND | | 2.4 | 0.22 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |

## Client Sample ID: SB-26 0.6-2FT

**Date Collected: 10/05/17 12:55**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-5

**Matrix: Solid**
**Percent Solids: 92.3**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | ND | | 2.4 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Carbon tetrachloride | ND | | 2.4 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Chlorobenzene | ND | | 2.4 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Dibromochloromethane | ND | | 2.4 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Chloroethane | ND | | 2.4 | 0.54 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Chloroform | ND | | 2.4 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Chloromethane | ND | | 2.4 | 0.14 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| **cis-1,2-Dichloroethene** | **14** | | 2.4 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.4 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Cyclohexane | ND | | 2.4 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Dichlorodifluoromethane | ND | | 2.4 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Ethylbenzene | ND | | 2.4 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| 1,2-Dibromoethane | ND | | 2.4 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Isopropylbenzene | ND | | 2.4 | 0.36 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Methyl acetate | ND | | 12 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Methyl tert-butyl ether | ND | | 2.4 | 0.24 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Methylcyclohexane | ND | | 2.4 | 0.36 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Methylene Chloride | ND | | 2.4 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Styrene | ND | | 2.4 | 0.12 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Toluene | ND | | 2.4 | 0.18 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.4 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.4 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| **Trichloroethene** | **4.1** | | 2.4 | 0.53 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Trichlorofluoromethane | ND | | 2.4 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Vinyl chloride | ND | | 2.4 | 0.29 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |
| Xylenes, Total | ND | | 4.8 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *71 - 125* | *10/06/17 01:30* | *10/12/17 21:03* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *64 - 126* | *10/06/17 01:30* | *10/12/17 21:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *72 - 126* | *10/06/17 01:30* | *10/12/17 21:03* | *1* |
| *Dibromofluoromethane (Surr)* | *106* | | *60 - 140* | *10/06/17 01:30* | *10/12/17 21:03* | *1* |

### Method: 8260C - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Tetrachloroethene** | **7700** | | 150 | 21 | ug/Kg | ☼ | 10/16/17 16:26 | 10/17/17 19:47 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *50 - 149* | *10/16/17 16:26* | *10/17/17 19:47* | *5* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *53 - 146* | *10/16/17 16:26* | *10/17/17 19:47* | *5* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *49 - 148* | *10/16/17 16:26* | *10/17/17 19:47* | *5* |
| *Dibromofluoromethane (Surr)* | *88* | | *60 - 140* | *10/16/17 16:26* | *10/17/17 19:47* | *5* |

## Client Sample ID: SB-27 4-6FT

**Date Collected: 10/05/17 13:45**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-6

**Matrix: Solid**
**Percent Solids: 87.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 2.5 | 0.18 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |

**Client Sample ID: SB-27 4-6FT**
**Date Collected: 10/05/17 13:45**
**Date Received: 10/05/17 18:20**

**Lab Sample ID: 480-125383-6**
**Matrix: Solid**
**Percent Solids: 87.6**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 2.5 | 0.41 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.5 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.5 | 0.58 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,1-Dichloroethane | ND | | 2.5 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,1-Dichloroethene | ND | | 2.5 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.5 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.5 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.5 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2-Dichloroethane | ND | | 2.5 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2-Dichloropropane | ND | | 2.5 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.5 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.5 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 2-Butanone (MEK) | ND | | 13 | 0.93 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 2-Hexanone | ND | | 13 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 13 | 0.83 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| **Acetone** | **14** | | 13 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Benzene | ND | | 2.5 | 0.12 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Bromodichloromethane | ND | | 2.5 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Bromoform | ND | | 2.5 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Bromomethane | ND | | 2.5 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Carbon disulfide | ND | | 2.5 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Carbon tetrachloride | ND | | 2.5 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Chlorobenzene | ND | | 2.5 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Dibromochloromethane | ND | | 2.5 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Chloroethane | ND | | 2.5 | 0.57 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Chloroform | ND | | 2.5 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Chloromethane | ND | | 2.5 | 0.15 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| **cis-1,2-Dichloroethene** | **0.90** | **J** | 2.5 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 2.5 | 0.36 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Cyclohexane | ND | | 2.5 | 0.35 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Dichlorodifluoromethane | ND | | 2.5 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Ethylbenzene | ND | | 2.5 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| 1,2-Dibromoethane | ND | | 2.5 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Isopropylbenzene | ND | | 2.5 | 0.38 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Methyl acetate | ND | | 13 | 1.5 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Methyl tert-butyl ether | ND | | 2.5 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Methylcyclohexane | ND | | 2.5 | 0.38 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Methylene Chloride | ND | | 2.5 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Styrene | ND | | 2.5 | 0.13 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| **Tetrachloroethene** | **15** | **B** | 2.5 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Toluene | ND | | 2.5 | 0.19 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 2.5 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 2.5 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Trichloroethene | ND | | 2.5 | 0.56 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Trichlorofluoromethane | ND | | 2.5 | 0.24 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Vinyl chloride | ND | | 2.5 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |
| Xylenes, Total | ND | | 5.1 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *71 - 125* | *10/06/17 01:30* | *10/12/17 21:28* | *1* |

## Client Sample ID: SB-27 4-6FT

**Lab Sample ID: 480-125383-6**
**Date Collected: 10/05/17 13:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 87.6**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 126* | *10/06/17 01:30* | *10/12/17 21:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *72 - 126* | *10/06/17 01:30* | *10/12/17 21:28* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *60 - 140* | *10/06/17 01:30* | *10/12/17 21:28* | *1* |

## Client Sample ID: SB-28 0.6-2FT

**Lab Sample ID: 480-125383-7**
**Date Collected: 10/05/17 14:10**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 84.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 3.5 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.5 | 0.56 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.5 | 0.45 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.5 | 0.79 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,1-Dichloroethane | ND | | 3.5 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,1-Dichloroethene | ND | | 3.5 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.5 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.5 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.5 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2-Dichloroethane | ND | | 3.5 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2-Dichloropropane | ND | | 3.5 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.5 | 0.18 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.5 | 0.49 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 2-Butanone (MEK) | ND | | 17 | 1.3 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 2-Hexanone | ND | | 17 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 17 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| **Acetone** | **25** | | 17 | 2.9 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Benzene | ND | | 3.5 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Bromodichloromethane | ND | | 3.5 | 0.47 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Bromoform | ND | | 3.5 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Bromomethane | ND | | 3.5 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Carbon disulfide | ND | | 3.5 | 1.7 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Carbon tetrachloride | ND | | 3.5 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Chlorobenzene | ND | | 3.5 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Dibromochloromethane | ND | | 3.5 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Chloroethane | ND | | 3.5 | 0.79 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Chloroform | ND | | 3.5 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Chloromethane | ND | | 3.5 | 0.21 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| **cis-1,2-Dichloroethene** | **0.45** | **J** | 3.5 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.5 | 0.50 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Cyclohexane | ND | | 3.5 | 0.49 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Dichlorodifluoromethane | ND | | 3.5 | 0.29 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Ethylbenzene | ND | | 3.5 | 0.24 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| 1,2-Dibromoethane | ND | | 3.5 | 0.45 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Isopropylbenzene | ND | | 3.5 | 0.52 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Methyl acetate | ND | | 17 | 2.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Methyl tert-butyl ether | ND | | 3.5 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Methylcyclohexane | ND | | 3.5 | 0.53 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Methylene Chloride | ND | | 3.5 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |

## Client Sample ID: SB-28 0.6-2FT

**Lab Sample ID: 480-125383-7**
**Date Collected: 10/05/17 14:10**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 84.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 3.5 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| **Tetrachloroethene** | **6.4** | **B** | 3.5 | 0.47 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Toluene | ND | | 3.5 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.5 | 0.36 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.5 | 1.5 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Trichloroethene | ND | | 3.5 | 0.76 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Trichlorofluoromethane | ND | | 3.5 | 0.33 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Vinyl chloride | ND | | 3.5 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |
| Xylenes, Total | ND | | 7.0 | 0.58 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 21:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *71 - 125* | *10/06/17 01:30* | *10/12/17 21:54* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *64 - 126* | *10/06/17 01:30* | *10/12/17 21:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *72 - 126* | *10/06/17 01:30* | *10/12/17 21:54* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *60 - 140* | *10/06/17 01:30* | *10/12/17 21:54* | *1* |

## Client Sample ID: SB-29 0.6-2FT

**Lab Sample ID: 480-125383-8**
**Date Collected: 10/05/17 15:40**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 87.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 3.3 | 0.24 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.3 | 0.53 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.3 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.3 | 0.75 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,1-Dichloroethane | ND | | 3.3 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,1-Dichloroethene | ND | | 3.3 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 3.3 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.3 | 0.26 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2-Dichloroethane | ND | | 3.3 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2-Dichloropropane | ND | | 3.3 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.3 | 0.17 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.3 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 2-Butanone (MEK) | ND | | 16 | 1.2 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 2-Hexanone | ND | | 16 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 16 | 1.1 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| **Acetone** | **37** | | 16 | 2.8 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Benzene | ND | | 3.3 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Bromodichloromethane | ND | | 3.3 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Bromoform | ND | | 3.3 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Bromomethane | ND | | 3.3 | 0.30 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Carbon disulfide | ND | | 3.3 | 1.6 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Carbon tetrachloride | ND | | 3.3 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Chlorobenzene | ND | | 3.3 | 0.43 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Dibromochloromethane | ND | | 3.3 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Chloroethane | ND | | 3.3 | 0.74 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Chloroform | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Chloromethane | ND | | 3.3 | 0.20 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |

**Client Sample ID: SB-29 0.6-2FT**
**Date Collected: 10/05/17 15:40**
**Date Received: 10/05/17 18:20**

**Lab Sample ID: 480-125383-8**
**Matrix: Solid**
**Percent Solids: 87.5**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **cis-1,2-Dichloroethene** | **24** | | 3.3 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.3 | 0.47 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| **Cyclohexane** | **0.70** | **J** | 3.3 | 0.46 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Dichlorodifluoromethane | ND | | 3.3 | 0.27 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Ethylbenzene | ND | | 3.3 | 0.23 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| 1,2-Dibromoethane | ND | | 3.3 | 0.42 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Isopropylbenzene | ND | | 3.3 | 0.50 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Methyl acetate | ND | | 16 | 2.0 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Methyl tert-butyl ether | ND | | 3.3 | 0.32 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Methylcyclohexane | ND | | 3.3 | 0.50 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Methylene Chloride | ND | | 3.3 | 1.5 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Styrene | ND | | 3.3 | 0.16 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| **Tetrachloroethene** | **0.99** | **J B** | 3.3 | 0.44 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Toluene | ND | | 3.3 | 0.25 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| **trans-1,2-Dichloroethene** | **1.5** | **J** | 3.3 | 0.34 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.3 | 1.4 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Trichloroethene | ND | | 3.3 | 0.72 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Trichlorofluoromethane | ND | | 3.3 | 0.31 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| **Vinyl chloride** | **2.4** | **J** | 3.3 | 0.40 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |
| Xylenes, Total | ND | | 6.6 | 0.55 | ug/Kg | ☼ | 10/06/17 01:30 | 10/12/17 22:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *71 - 125* | *10/06/17 01:30* | *10/12/17 22:19* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *64 - 126* | *10/06/17 01:30* | *10/12/17 22:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *72 - 126* | *10/06/17 01:30* | *10/12/17 22:19* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *60 - 140* | *10/06/17 01:30* | *10/12/17 22:19* | *1* |

# Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TOL | 12DCE | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (71-125) | (64-126) | (72-126) | (60-140) |
| 480-125383-1 | SB-23 0.6-2FT | 100 | 100 | 95 | 101 |
| 480-125383-2 | SB-24 0.6-2FT | 97 | 101 | 100 | 103 |
| 480-125383-3 | SB-25 0.6-2FT | 108 | 104 | 104 | 107 |
| 480-125383-4 | SB-25 2-4FT | 122 | 105 | 109 | 107 |
| 480-125383-5 | SB-26 0.6-2FT | 98 | 104 | 102 | 106 |
| 480-125383-6 | SB-27 4-6FT | 99 | 109 | 105 | 107 |
| 480-125383-7 | SB-28 0.6-2FT | 99 | 100 | 100 | 103 |
| 480-125383-8 | SB-29 0.6-2FT | 98 | 106 | 103 | 104 |
| LCS 480-381053/1-A | Lab Control Sample | 101 | 100 | 105 | 101 |
| LCS 480-381517/1-A | Lab Control Sample | 99 | 102 | 102 | 105 |
| MB 480-381053/21-A | Method Blank | 100 | 100 | 101 | 104 |
| MB 480-381517/2-A | Method Blank | 98 | 99 | 101 | 102 |

**Surrogate Legend**

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | TOL | 12DCE | BFB | DBFM |
| Lab Sample ID | Client Sample ID | (50-149) | (53-146) | (49-148) | (60-140) |
| 480-125383-1 - DL | SB-23 0.6-2FT | 94 | 104 | 93 | 89 |
| 480-125383-2 - DL | SB-24 0.6-2FT | 94 | 110 | 102 | 90 |
| 480-125383-3 - DL | SB-25 0.6-2FT | 95 | 105 | 93 | 90 |
| 480-125383-4 - DL | SB-25 2-4FT | 94 | 106 | 96 | 95 |
| 480-125383-5 - DL | SB-26 0.6-2FT | 94 | 105 | 101 | 88 |
| LCS 480-381483/1-A | Lab Control Sample | 96 | 96 | 94 | 91 |
| LCS 480-382070/1-A | Lab Control Sample | 96 | 104 | 102 | 91 |
| MB 480-381483/2-A | Method Blank | 96 | 99 | 95 | 89 |
| MB 480-382070/2-A | Method Blank | 96 | 104 | 101 | 88 |

**Surrogate Legend**

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-381053/21-A**
**Matrix: Solid**
**Analysis Batch: 381007**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 381053**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.36 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.81 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.65 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.61 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.30 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.39 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.25 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.26 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.70 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 2-Butanone (MEK) | ND | | 25 | 1.8 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 2-Hexanone | ND | | 25 | 2.5 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 1.6 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Acetone | ND | | 25 | 4.2 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.67 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Bromomethane | ND | | 5.0 | 0.45 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Carbon disulfide | ND | | 5.0 | 2.5 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.48 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.64 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Chloroethane | ND | | 5.0 | 1.1 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Chloroform | ND | | 5.0 | 0.31 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Chloromethane | ND | | 5.0 | 0.30 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.64 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.72 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Cyclohexane | ND | | 5.0 | 0.70 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.41 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.35 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.64 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.75 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Methyl acetate | ND | | 25 | 3.0 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.49 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.76 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Methylene Chloride | ND | | 5.0 | 2.3 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Styrene | ND | | 5.0 | 0.25 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.67 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Toluene | ND | | 5.0 | 0.38 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.52 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 2.2 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Trichloroethene | ND | | 5.0 | 1.1 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.47 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.61 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Xylenes, Total | ND | | 10 | 0.84 | ug/Kg | | 10/10/17 10:59 | 10/10/17 13:32 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | 100 | | 71 - 125 | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 64 - 126 | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 72 - 126 | 10/10/17 10:59 | 10/10/17 13:32 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 60 - 140 | 10/10/17 10:59 | 10/10/17 13:32 | 1 |

**Lab Sample ID: LCS 480-381053/1-A**
**Matrix: Solid**
**Analysis Batch: 381007**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381053**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 50.0 | 49.9 | | ug/Kg | | 100 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 49.8 | | ug/Kg | | 100 | 80 - 120 |
| 1,1,2-Trichloroethane | 50.0 | 50.3 | | ug/Kg | | 101 | 78 - 122 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 50.9 | | ug/Kg | | 102 | 60 - 140 |
| 1,1-Dichloroethane | 50.0 | 49.6 | | ug/Kg | | 99 | 73 - 126 |
| 1,1-Dichloroethene | 50.0 | 50.5 | | ug/Kg | | 101 | 59 - 125 |
| 1,2,4-Trichlorobenzene | 50.0 | 54.4 | | ug/Kg | | 109 | 64 - 120 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 47.7 | | ug/Kg | | 95 | 63 - 124 |
| 1,2-Dichlorobenzene | 50.0 | 50.6 | | ug/Kg | | 101 | 75 - 120 |
| 1,2-Dichloroethane | 50.0 | 45.5 | | ug/Kg | | 91 | 77 - 122 |
| 1,2-Dichloropropane | 50.0 | 48.4 | | ug/Kg | | 97 | 75 - 124 |
| 1,3-Dichlorobenzene | 50.0 | 50.7 | | ug/Kg | | 101 | 74 - 120 |
| 1,4-Dichlorobenzene | 50.0 | 49.1 | | ug/Kg | | 98 | 73 - 120 |
| 2-Butanone (MEK) | 250 | 391 | * | ug/Kg | | 157 | 70 - 134 |
| 2-Hexanone | 250 | 230 | | ug/Kg | | 92 | 59 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 229 | | ug/Kg | | 92 | 65 - 133 |
| Acetone | 250 | 231 | | ug/Kg | | 92 | 61 - 137 |
| Benzene | 50.0 | 49.5 | | ug/Kg | | 99 | 79 - 127 |
| Bromodichloromethane | 50.0 | 52.8 | | ug/Kg | | 106 | 80 - 122 |
| Bromoform | 50.0 | 56.8 | | ug/Kg | | 114 | 68 - 126 |
| Bromomethane | 50.0 | 42.2 | | ug/Kg | | 84 | 37 - 149 |
| Carbon disulfide | 50.0 | 52.9 | | ug/Kg | | 106 | 64 - 131 |
| Carbon tetrachloride | 50.0 | 53.6 | | ug/Kg | | 107 | 75 - 135 |
| Chlorobenzene | 50.0 | 51.3 | | ug/Kg | | 103 | 76 - 124 |
| Dibromochloromethane | 50.0 | 50.3 | | ug/Kg | | 101 | 76 - 125 |
| Chloroethane | 50.0 | 41.0 | | ug/Kg | | 82 | 69 - 135 |
| Chloroform | 50.0 | 47.6 | | ug/Kg | | 95 | 80 - 120 |
| Chloromethane | 50.0 | 42.5 | | ug/Kg | | 85 | 63 - 127 |
| cis-1,2-Dichloroethene | 50.0 | 50.5 | | ug/Kg | | 101 | 81 - 120 |
| cis-1,3-Dichloropropene | 50.0 | 54.1 | | ug/Kg | | 108 | 80 - 120 |
| Cyclohexane | 50.0 | 47.9 | | ug/Kg | | 96 | 65 - 120 |
| Dichlorodifluoromethane | 50.0 | 52.1 | | ug/Kg | | 104 | 57 - 142 |
| Ethylbenzene | 50.0 | 50.3 | | ug/Kg | | 101 | 80 - 120 |
| 1,2-Dibromoethane | 50.0 | 52.3 | | ug/Kg | | 105 | 78 - 120 |
| Isopropylbenzene | 50.0 | 49.5 | | ug/Kg | | 99 | 72 - 120 |
| Methyl acetate | 100 | 91.9 | | ug/Kg | | 92 | 55 - 136 |
| Methyl tert-butyl ether | 50.0 | 49.0 | | ug/Kg | | 98 | 63 - 125 |
| Methylcyclohexane | 50.0 | 50.7 | | ug/Kg | | 101 | 60 - 140 |
| Methylene Chloride | 50.0 | 52.1 | | ug/Kg | | 104 | 61 - 127 |
| Styrene | 50.0 | 51.0 | | ug/Kg | | 102 | 80 - 120 |
| Tetrachloroethene | 50.0 | 58.8 | | ug/Kg | | 118 | 74 - 122 |
| Toluene | 50.0 | 50.1 | | ug/Kg | | 100 | 74 - 128 |
| trans-1,2-Dichloroethene | 50.0 | 50.8 | | ug/Kg | | 102 | 78 - 126 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-381053/1-A**
**Matrix: Solid**
**Analysis Batch: 381007**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381053**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 50.0 | 52.8 | | ug/Kg | | 106 | 73 - 123 |
| Trichloroethene | 50.0 | 51.2 | | ug/Kg | | 102 | 77 - 129 |
| Trichlorofluoromethane | 50.0 | 49.4 | | ug/Kg | | 99 | 65 - 146 |
| Vinyl chloride | 50.0 | 44.1 | | ug/Kg | | 88 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *101* | | *71 - 125* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *101* | | *60 - 140* |

**Lab Sample ID: MB 480-381483/2-A**
**Matrix: Solid**
**Analysis Batch: 381607**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 381483**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-381483/2-A**
**Matrix: Solid**
**Analysis Batch: 381607**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 381483**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Methylene Chloride | ND | | 100 | 20 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 10/12/17 11:14 | 10/13/17 01:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *50 - 149* | *10/12/17 11:14* | *10/13/17 01:51* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *53 - 146* | *10/12/17 11:14* | *10/13/17 01:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *49 - 148* | *10/12/17 11:14* | *10/13/17 01:51* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *60 - 140* | *10/12/17 11:14* | *10/13/17 01:51* | *1* |

**Lab Sample ID: LCS 480-381483/1-A**
**Matrix: Solid**
**Analysis Batch: 381607**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381483**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2490 | | ug/Kg | | 99 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2460 | | ug/Kg | | 98 | 73 - 120 |
| 1,1,2-Trichloroethane | 2500 | 2480 | | ug/Kg | | 99 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2390 | | ug/Kg | | 96 | 10 - 179 |
| 1,1-Dichloroethane | 2500 | 2440 | | ug/Kg | | 98 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2180 | | ug/Kg | | 87 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2700 | | ug/Kg | | 108 | 70 - 140 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2310 | | ug/Kg | | 92 | 56 - 122 |
| 1,2-Dichlorobenzene | 2500 | 2470 | | ug/Kg | | 99 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 2460 | | ug/Kg | | 98 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 2470 | | ug/Kg | | 99 | 80 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2510 | | ug/Kg | | 101 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2400 | | ug/Kg | | 96 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 13000 | | ug/Kg | | 104 | 54 - 149 |
| 2-Hexanone | 12500 | 13500 | | ug/Kg | | 108 | 59 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 13100 | | ug/Kg | | 105 | 74 - 120 |
| Acetone | 12500 | 10000 | | ug/Kg | | 80 | 47 - 141 |
| Benzene | 2500 | 2330 | | ug/Kg | | 93 | 77 - 125 |
| Bromodichloromethane | 2500 | 2290 | | ug/Kg | | 92 | 71 - 121 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-381483/1-A**
**Matrix: Solid**
**Analysis Batch: 381607**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381483**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromoform | 2500 | 2120 | | ug/Kg | | 85 | 48 - 125 |
| Bromomethane | 2500 | 1690 | | ug/Kg | | 67 | 39 - 149 |
| Carbon disulfide | 2500 | 2060 | | ug/Kg | | 82 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2290 | | ug/Kg | | 92 | 54 - 135 |
| Chlorobenzene | 2500 | 2420 | | ug/Kg | | 97 | 76 - 126 |
| Dibromochloromethane | 2500 | 2300 | | ug/Kg | | 92 | 64 - 120 |
| Chloroethane | 2500 | 1950 | | ug/Kg | | 78 | 23 - 150 |
| Chloroform | 2500 | 2280 | | ug/Kg | | 91 | 78 - 120 |
| Chloromethane | 2500 | 1570 | | ug/Kg | | 63 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2260 | | ug/Kg | | 90 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2300 | | ug/Kg | | 92 | 75 - 121 |
| Cyclohexane | 2500 | 2550 | | ug/Kg | | 102 | 49 - 129 |
| Dichlorodifluoromethane | 2500 | 959 | | ug/Kg | | 38 | 10 - 150 |
| Ethylbenzene | 2500 | 2590 | | ug/Kg | | 104 | 78 - 124 |
| 1,2-Dibromoethane | 2500 | 2400 | | ug/Kg | | 96 | 80 - 120 |
| Isopropylbenzene | 2500 | 2440 | | ug/Kg | | 98 | 76 - 120 |
| Methyl acetate | 5000 | 5120 | | ug/Kg | | 102 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2220 | | ug/Kg | | 89 | 67 - 137 |
| Methylcyclohexane | 2500 | 2330 | | ug/Kg | | 93 | 50 - 130 |
| Methylene Chloride | 2500 | 2260 | | ug/Kg | | 91 | 75 - 118 |
| Styrene | 2500 | 2420 | | ug/Kg | | 97 | 80 - 120 |
| Tetrachloroethene | 2500 | 2540 | | ug/Kg | | 102 | 73 - 133 |
| Toluene | 2500 | 2390 | | ug/Kg | | 96 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2240 | | ug/Kg | | 90 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2410 | | ug/Kg | | 96 | 73 - 120 |
| Trichloroethene | 2500 | 2400 | | ug/Kg | | 96 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 1840 | | ug/Kg | | 73 | 29 - 158 |
| Vinyl chloride | 2500 | 1620 | | ug/Kg | | 65 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *50 - 149* |
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *91* | | *60 - 140* |

**Lab Sample ID: MB 480-381517/2-A**
**Matrix: Solid**
**Analysis Batch: 381443**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 381517**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.36 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.81 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.65 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.61 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.30 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-381517/2-A**
**Matrix: Solid**
**Analysis Batch: 381443**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 381517**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.39 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.25 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 2.5 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.26 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.70 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 2-Butanone (MEK) | ND | | 25 | 1.8 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 2-Hexanone | ND | | 25 | 2.5 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 1.6 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Acetone | ND | | 25 | 4.2 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Benzene | ND | | 5.0 | 0.25 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.67 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Bromoform | ND | | 5.0 | 2.5 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Bromomethane | ND | | 5.0 | 0.45 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Carbon disulfide | ND | | 5.0 | 2.5 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.48 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Dibromochloromethane | ND | | 5.0 | 0.64 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Chloroethane | ND | | 5.0 | 1.1 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Chloroform | ND | | 5.0 | 0.31 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Chloromethane | ND | | 5.0 | 0.30 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.64 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.72 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Cyclohexane | ND | | 5.0 | 0.70 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.41 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.35 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 0.64 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.75 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Methyl acetate | ND | | 25 | 3.0 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.49 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.76 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Methylene Chloride | ND | | 5.0 | 2.3 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Styrene | ND | | 5.0 | 0.25 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Tetrachloroethene | 0.924 | J | 5.0 | 0.67 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Toluene | ND | | 5.0 | 0.38 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.52 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 2.2 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Trichloroethene | ND | | 5.0 | 1.1 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.47 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.61 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |
| Xylenes, Total | ND | | 10 | 0.84 | ug/Kg | | 10/12/17 13:14 | 10/12/17 14:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *71 - 125* | *10/12/17 13:14* | *10/12/17 14:34* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *64 - 126* | *10/12/17 13:14* | *10/12/17 14:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *72 - 126* | *10/12/17 13:14* | *10/12/17 14:34* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *60 - 140* | *10/12/17 13:14* | *10/12/17 14:34* | *1* |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-381517/1-A**
**Matrix: Solid**
**Analysis Batch: 381443**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381517**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 50.0 | 54.6 | | ug/Kg | | 109 | 77 - 121 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 54.9 | | ug/Kg | | 110 | 80 - 120 |
| 1,1,2-Trichloroethane | 50.0 | 53.0 | | ug/Kg | | 106 | 78 - 122 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 54.7 | | ug/Kg | | 109 | 60 - 140 |
| 1,1-Dichloroethane | 50.0 | 52.3 | | ug/Kg | | 105 | 73 - 126 |
| 1,1-Dichloroethene | 50.0 | 54.5 | | ug/Kg | | 109 | 59 - 125 |
| 1,2,4-Trichlorobenzene | 50.0 | 54.6 | | ug/Kg | | 109 | 64 - 120 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 51.8 | | ug/Kg | | 104 | 63 - 124 |
| 1,2-Dichlorobenzene | 50.0 | 51.2 | | ug/Kg | | 102 | 75 - 120 |
| 1,2-Dichloroethane | 50.0 | 50.0 | | ug/Kg | | 100 | 77 - 122 |
| 1,2-Dichloropropane | 50.0 | 52.5 | | ug/Kg | | 105 | 75 - 124 |
| 1,3-Dichlorobenzene | 50.0 | 51.1 | | ug/Kg | | 102 | 74 - 120 |
| 1,4-Dichlorobenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 73 - 120 |
| 2-Butanone (MEK) | 250 | 291 | | ug/Kg | | 116 | 70 - 134 |
| 2-Hexanone | 250 | 280 | | ug/Kg | | 112 | 59 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 272 | | ug/Kg | | 109 | 65 - 133 |
| Acetone | 250 | 294 | | ug/Kg | | 117 | 61 - 137 |
| Benzene | 50.0 | 53.3 | | ug/Kg | | 107 | 79 - 127 |
| Bromodichloromethane | 50.0 | 55.5 | | ug/Kg | | 111 | 80 - 122 |
| Bromoform | 50.0 | 57.4 | | ug/Kg | | 115 | 68 - 126 |
| Bromomethane | 50.0 | 47.4 | | ug/Kg | | 95 | 37 - 149 |
| Carbon disulfide | 50.0 | 55.9 | | ug/Kg | | 112 | 64 - 131 |
| Carbon tetrachloride | 50.0 | 58.9 | | ug/Kg | | 118 | 75 - 135 |
| Chlorobenzene | 50.0 | 52.1 | | ug/Kg | | 104 | 76 - 124 |
| Dibromochloromethane | 50.0 | 50.2 | | ug/Kg | | 100 | 76 - 125 |
| Chloroethane | 50.0 | 43.8 | | ug/Kg | | 88 | 69 - 135 |
| Chloroform | 50.0 | 51.8 | | ug/Kg | | 104 | 80 - 120 |
| Chloromethane | 50.0 | 40.6 | | ug/Kg | | 81 | 63 - 127 |
| cis-1,2-Dichloroethene | 50.0 | 53.8 | | ug/Kg | | 108 | 81 - 120 |
| cis-1,3-Dichloropropene | 50.0 | 55.3 | | ug/Kg | | 111 | 80 - 120 |
| Cyclohexane | 50.0 | 51.7 | | ug/Kg | | 103 | 65 - 120 |
| Dichlorodifluoromethane | 50.0 | 54.6 | | ug/Kg | | 109 | 57 - 142 |
| Ethylbenzene | 50.0 | 51.4 | | ug/Kg | | 103 | 80 - 120 |
| 1,2-Dibromoethane | 50.0 | 56.0 | | ug/Kg | | 112 | 78 - 120 |
| Isopropylbenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 72 - 120 |
| Methyl acetate | 100 | 109 | | ug/Kg | | 109 | 55 - 136 |
| Methyl tert-butyl ether | 50.0 | 53.8 | | ug/Kg | | 108 | 63 - 125 |
| Methylcyclohexane | 50.0 | 54.1 | | ug/Kg | | 108 | 60 - 140 |
| Methylene Chloride | 50.0 | 55.4 | | ug/Kg | | 111 | 61 - 127 |
| Styrene | 50.0 | 51.7 | | ug/Kg | | 103 | 80 - 120 |
| Tetrachloroethene | 50.0 | 56.0 | | ug/Kg | | 112 | 74 - 122 |
| Toluene | 50.0 | 51.5 | | ug/Kg | | 103 | 74 - 128 |
| trans-1,2-Dichloroethene | 50.0 | 54.8 | | ug/Kg | | 110 | 78 - 126 |
| trans-1,3-Dichloropropene | 50.0 | 53.3 | | ug/Kg | | 107 | 73 - 123 |
| Trichloroethene | 50.0 | 54.2 | | ug/Kg | | 108 | 77 - 129 |
| Trichlorofluoromethane | 50.0 | 53.7 | | ug/Kg | | 107 | 65 - 146 |
| Vinyl chloride | 50.0 | 46.7 | | ug/Kg | | 93 | 61 - 133 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-381517/1-A**
**Matrix: Solid**
**Analysis Batch: 381443**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 381517**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *71 - 125* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *64 - 126* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *72 - 126* |
| *Dibromofluoromethane (Surr)* | *105* | | *60 - 140* |

**Lab Sample ID: MB 480-382070/2-A**
**Matrix: Solid**
**Analysis Batch: 382131**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 382070**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 100 | 28 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 100 | 16 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,1,2-Trichloroethane | ND | | 100 | 21 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 100 | 50 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,1-Dichloroethane | ND | | 100 | 31 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,1-Dichloroethene | ND | | 100 | 35 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 100 | 38 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 100 | 50 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2-Dichlorobenzene | ND | | 100 | 26 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2-Dichloroethane | ND | | 100 | 41 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2-Dichloropropane | ND | | 100 | 16 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,3-Dichlorobenzene | ND | | 100 | 27 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,4-Dichlorobenzene | ND | | 100 | 14 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 2-Butanone (MEK) | ND | | 500 | 300 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 2-Hexanone | ND | | 500 | 210 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | 32 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Acetone | ND | | 500 | 410 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Benzene | ND | | 100 | 19 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Bromodichloromethane | ND | | 100 | 20 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Bromoform | ND | | 100 | 50 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Bromomethane | ND | | 100 | 22 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Carbon disulfide | ND | | 100 | 46 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Carbon tetrachloride | ND | | 100 | 26 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Chlorobenzene | ND | | 100 | 13 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Dibromochloromethane | ND | | 100 | 48 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Chloroethane | ND | | 100 | 21 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Chloroform | ND | | 100 | 69 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Chloromethane | ND | | 100 | 24 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| cis-1,2-Dichloroethene | ND | | 100 | 28 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| cis-1,3-Dichloropropene | ND | | 100 | 24 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Cyclohexane | ND | | 100 | 22 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Dichlorodifluoromethane | ND | | 100 | 44 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Ethylbenzene | ND | | 100 | 29 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| 1,2-Dibromoethane | ND | | 100 | 18 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Isopropylbenzene | ND | | 100 | 15 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Methyl acetate | ND | | 500 | 48 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Methyl tert-butyl ether | ND | | 100 | 38 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Methylcyclohexane | ND | | 100 | 47 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-382070/2-A**
**Matrix: Solid**
**Analysis Batch: 382131**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 382070**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | ND | | 100 | 20 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Styrene | ND | | 100 | 24 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Tetrachloroethene | ND | | 100 | 13 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Toluene | ND | | 100 | 27 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| trans-1,2-Dichloroethene | ND | | 100 | 24 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| trans-1,3-Dichloropropene | ND | | 100 | 9.8 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Trichloroethene | ND | | 100 | 28 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Trichlorofluoromethane | ND | | 100 | 47 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Vinyl chloride | ND | | 100 | 34 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |
| Xylenes, Total | ND | | 200 | 55 | ug/Kg | | 10/16/17 16:26 | 10/17/17 12:39 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *50 - 149* | *10/16/17 16:26* | *10/17/17 12:39* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *53 - 146* | *10/16/17 16:26* | *10/17/17 12:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *49 - 148* | *10/16/17 16:26* | *10/17/17 12:39* | *1* |
| *Dibromofluoromethane (Surr)* | *88* | | *60 - 140* | *10/16/17 16:26* | *10/17/17 12:39* | *1* |

**Lab Sample ID: LCS 480-382070/1-A**
**Matrix: Solid**
**Analysis Batch: 382131**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 382070**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 2500 | 2900 | | ug/Kg | | 116 | 68 - 130 |
| 1,1,2,2-Tetrachloroethane | 2500 | 2430 | | ug/Kg | | 97 | 73 - 120 |
| 1,1,2-Trichloroethane | 2500 | 2900 | | ug/Kg | | 116 | 80 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2500 | 2810 | | ug/Kg | | 112 | 10 - 179 |
| 1,1-Dichloroethane | 2500 | 3060 | * | ug/Kg | | 122 | 78 - 121 |
| 1,1-Dichloroethene | 2500 | 2610 | | ug/Kg | | 104 | 48 - 133 |
| 1,2,4-Trichlorobenzene | 2500 | 2720 | | ug/Kg | | 109 | 70 - 140 |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2030 | | ug/Kg | | 81 | 56 - 122 |
| 1,2-Dichlorobenzene | 2500 | 2750 | | ug/Kg | | 110 | 78 - 125 |
| 1,2-Dichloroethane | 2500 | 3300 | * | ug/Kg | | 132 | 74 - 127 |
| 1,2-Dichloropropane | 2500 | 3060 | * | ug/Kg | | 122 | 80 - 120 |
| 1,3-Dichlorobenzene | 2500 | 2810 | | ug/Kg | | 113 | 80 - 120 |
| 1,4-Dichlorobenzene | 2500 | 2720 | | ug/Kg | | 109 | 80 - 120 |
| 2-Butanone (MEK) | 12500 | 13900 | | ug/Kg | | 111 | 54 - 149 |
| 2-Hexanone | 12500 | 16300 | * | ug/Kg | | 130 | 59 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 12500 | 14900 | | ug/Kg | | 119 | 74 - 120 |
| Acetone | 12500 | 11500 | | ug/Kg | | 92 | 47 - 141 |
| Benzene | 2500 | 2760 | | ug/Kg | | 110 | 77 - 125 |
| Bromodichloromethane | 2500 | 2720 | | ug/Kg | | 109 | 71 - 121 |
| Bromoform | 2500 | 2040 | | ug/Kg | | 82 | 48 - 125 |
| Bromomethane | 2500 | 2760 | | ug/Kg | | 111 | 39 - 149 |
| Carbon disulfide | 2500 | 2520 | | ug/Kg | | 101 | 40 - 136 |
| Carbon tetrachloride | 2500 | 2590 | | ug/Kg | | 103 | 54 - 135 |
| Chlorobenzene | 2500 | 2850 | | ug/Kg | | 114 | 76 - 126 |
| Dibromochloromethane | 2500 | 2400 | | ug/Kg | | 96 | 64 - 120 |

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-382070/1-A**
**Matrix: Solid**
**Analysis Batch: 382131**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 382070**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chloroethane | 2500 | 3260 | | ug/Kg | | 131 | 23 - 150 |
| Chloroform | 2500 | 2810 | | ug/Kg | | 112 | 78 - 120 |
| Chloromethane | 2500 | 3050 | | ug/Kg | | 122 | 61 - 124 |
| cis-1,2-Dichloroethene | 2500 | 2610 | | ug/Kg | | 105 | 79 - 124 |
| cis-1,3-Dichloropropene | 2500 | 2660 | | ug/Kg | | 107 | 75 - 121 |
| Cyclohexane | 2500 | 3540 | * | ug/Kg | | 142 | 49 - 129 |
| Dichlorodifluoromethane | 2500 | 2380 | | ug/Kg | | 95 | 10 - 150 |
| Ethylbenzene | 2500 | 2950 | | ug/Kg | | 118 | 78 - 124 |
| 1,2-Dibromoethane | 2500 | 2650 | | ug/Kg | | 106 | 80 - 120 |
| Isopropylbenzene | 2500 | 2680 | | ug/Kg | | 107 | 76 - 120 |
| Methyl acetate | 5000 | 6270 | * | ug/Kg | | 125 | 71 - 123 |
| Methyl tert-butyl ether | 2500 | 2580 | | ug/Kg | | 103 | 67 - 137 |
| Methylcyclohexane | 2500 | 2900 | | ug/Kg | | 116 | 50 - 130 |
| Methylene Chloride | 2500 | 2620 | | ug/Kg | | 105 | 75 - 118 |
| Styrene | 2500 | 2720 | | ug/Kg | | 109 | 80 - 120 |
| Tetrachloroethene | 2500 | 3170 | | ug/Kg | | 127 | 73 - 133 |
| Toluene | 2500 | 2750 | | ug/Kg | | 110 | 75 - 124 |
| trans-1,2-Dichloroethene | 2500 | 2630 | | ug/Kg | | 105 | 74 - 129 |
| trans-1,3-Dichloropropene | 2500 | 2680 | | ug/Kg | | 107 | 73 - 120 |
| Trichloroethene | 2500 | 2810 | | ug/Kg | | 112 | 75 - 131 |
| Trichlorofluoromethane | 2500 | 3110 | | ug/Kg | | 124 | 29 - 158 |
| Vinyl chloride | 2500 | 2820 | | ug/Kg | | 113 | 59 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *50 - 149* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *53 - 146* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *49 - 148* |
| *Dibromofluoromethane (Surr)* | *91* | | *60 - 140* |

# QC Association Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## GC/MS VOA

### Analysis Batch: 381007

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-1 | SB-23 0.6-2FT | Total/NA | Solid | 8260C | 381053 |
| 480-125383-3 | SB-25 0.6-2FT | Total/NA | Solid | 8260C | 381053 |
| 480-125383-4 | SB-25 2-4FT | Total/NA | Solid | 8260C | 381053 |
| MB 480-381053/21-A | Method Blank | Total/NA | Solid | 8260C | 381053 |
| LCS 480-381053/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 381053 |

### Prep Batch: 381053

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-1 | SB-23 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-125383-3 | SB-25 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-125383-4 | SB-25 2-4FT | Total/NA | Solid | 5035A_L | |
| MB 480-381053/21-A | Method Blank | Total/NA | Solid | 5035A_L | |
| LCS 480-381053/1-A | Lab Control Sample | Total/NA | Solid | 5035A_L | |

### Analysis Batch: 381443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-2 | SB-24 0.6-2FT | Total/NA | Solid | 8260C | 381517 |
| 480-125383-5 | SB-26 0.6-2FT | Total/NA | Solid | 8260C | 381517 |
| 480-125383-6 | SB-27 4-6FT | Total/NA | Solid | 8260C | 381517 |
| 480-125383-7 | SB-28 0.6-2FT | Total/NA | Solid | 8260C | 381517 |
| 480-125383-8 | SB-29 0.6-2FT | Total/NA | Solid | 8260C | 381517 |
| MB 480-381517/2-A | Method Blank | Total/NA | Solid | 8260C | 381517 |
| LCS 480-381517/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 381517 |

### Prep Batch: 381483

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-1 - DL | SB-23 0.6-2FT | Total/NA | Solid | 5035A_H | |
| 480-125383-3 - DL | SB-25 0.6-2FT | Total/NA | Solid | 5035A_H | |
| 480-125383-4 - DL | SB-25 2-4FT | Total/NA | Solid | 5035A_H | |
| MB 480-381483/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-381483/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Prep Batch: 381517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-2 | SB-24 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-125383-5 | SB-26 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-125383-6 | SB-27 4-6FT | Total/NA | Solid | 5035A_L | |
| 480-125383-7 | SB-28 0.6-2FT | Total/NA | Solid | 5035A_L | |
| 480-125383-8 | SB-29 0.6-2FT | Total/NA | Solid | 5035A_L | |
| MB 480-381517/2-A | Method Blank | Total/NA | Solid | 5035A_L | |
| LCS 480-381517/1-A | Lab Control Sample | Total/NA | Solid | 5035A_L | |

### Analysis Batch: 381607

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 480-381483/2-A | Method Blank | Total/NA | Solid | 8260C | 381483 |
| LCS 480-381483/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 381483 |

### Analysis Batch: 381658

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-1 - DL | SB-23 0.6-2FT | Total/NA | Solid | 8260C | 381483 |
| 480-125383-3 - DL | SB-25 0.6-2FT | Total/NA | Solid | 8260C | 381483 |

## GC/MS VOA (Continued)

### Analysis Batch: 381658 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-4 - DL | SB-25 2-4FT | Total/NA | Solid | 8260C | 381483 |

### Prep Batch: 382070

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-2 - DL | SB-24 0.6-2FT | Total/NA | Solid | 5035A_H | |
| 480-125383-5 - DL | SB-26 0.6-2FT | Total/NA | Solid | 5035A_H | |
| MB 480-382070/2-A | Method Blank | Total/NA | Solid | 5035A_H | |
| LCS 480-382070/1-A | Lab Control Sample | Total/NA | Solid | 5035A_H | |

### Analysis Batch: 382131

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-2 - DL | SB-24 0.6-2FT | Total/NA | Solid | 8260C | 382070 |
| 480-125383-5 - DL | SB-26 0.6-2FT | Total/NA | Solid | 8260C | 382070 |
| MB 480-382070/2-A | Method Blank | Total/NA | Solid | 8260C | 382070 |
| LCS 480-382070/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 382070 |

## General Chemistry

### Analysis Batch: 381296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-125383-1 | SB-23 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-125383-2 | SB-24 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-125383-3 | SB-25 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-125383-4 | SB-25 2-4FT | Total/NA | Solid | Moisture | |
| 480-125383-5 | SB-26 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-125383-6 | SB-27 4-6FT | Total/NA | Solid | Moisture | |
| 480-125383-7 | SB-28 0.6-2FT | Total/NA | Solid | Moisture | |
| 480-125383-8 | SB-29 0.6-2FT | Total/NA | Solid | Moisture | |

## Client Sample ID: SB-23 0.6-2FT
**Lab Sample ID: 480-125383-1**
**Date Collected: 10/05/17 10:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-23 0.6-2FT
**Lab Sample ID: 480-125383-1**
**Date Collected: 10/05/17 10:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 84.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381053 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381007 | 10/10/17 16:13 | CDC | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 381483 | 10/12/17 11:14 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 8 | 381658 | 10/13/17 19:28 | AMM | TAL BUF |

## Client Sample ID: SB-24 0.6-2FT
**Lab Sample ID: 480-125383-2**
**Date Collected: 10/05/17 11:30**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-24 0.6-2FT
**Lab Sample ID: 480-125383-2**
**Date Collected: 10/05/17 11:30**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 92.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381517 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381443 | 10/12/17 20:37 | CDC | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 382070 | 10/16/17 16:26 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 40 | 382131 | 10/17/17 19:20 | AMM | TAL BUF |

## Client Sample ID: SB-25 0.6-2FT
**Lab Sample ID: 480-125383-3**
**Date Collected: 10/05/17 12:00**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-25 0.6-2FT
**Lab Sample ID: 480-125383-3**
**Date Collected: 10/05/17 12:00**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 86.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381053 | 10/06/17 01:30 | CDC | TAL BUF |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Client Sample ID: SB-25 0.6-2FT
**Date Collected: 10/05/17 12:00**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-3
**Matrix: Solid**
**Percent Solids: 86.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 1 | 381007 | 10/10/17 17:04 | CDC | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 381483 | 10/12/17 11:14 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 100 | 381658 | 10/13/17 19:55 | AMM | TAL BUF |

## Client Sample ID: SB-25 2-4FT
**Date Collected: 10/05/17 12:00**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-25 2-4FT
**Date Collected: 10/05/17 12:00**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-4
**Matrix: Solid**
**Percent Solids: 88.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381053 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381007 | 10/10/17 17:30 | CDC | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 381483 | 10/12/17 11:14 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 25 | 381658 | 10/13/17 20:22 | AMM | TAL BUF |

## Client Sample ID: SB-26 0.6-2FT
**Date Collected: 10/05/17 12:55**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-5
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-26 0.6-2FT
**Date Collected: 10/05/17 12:55**
**Date Received: 10/05/17 18:20**

## Lab Sample ID: 480-125383-5
**Matrix: Solid**
**Percent Solids: 92.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381517 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381443 | 10/12/17 21:03 | CDC | TAL BUF |
| Total/NA | Prep | 5035A_H | DL | | 382070 | 10/16/17 16:26 | AMM | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 5 | 382131 | 10/17/17 19:47 | AMM | TAL BUF |

# Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

## Client Sample ID: SB-27 4-6FT
**Lab Sample ID: 480-125383-6**
**Date Collected: 10/05/17 13:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-27 4-6FT
**Lab Sample ID: 480-125383-6**
**Date Collected: 10/05/17 13:45**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 87.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381517 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381443 | 10/12/17 21:28 | CDC | TAL BUF |

## Client Sample ID: SB-28 0.6-2FT
**Lab Sample ID: 480-125383-7**
**Date Collected: 10/05/17 14:10**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-28 0.6-2FT
**Lab Sample ID: 480-125383-7**
**Date Collected: 10/05/17 14:10**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 84.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381517 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381443 | 10/12/17 21:54 | CDC | TAL BUF |

## Client Sample ID: SB-29 0.6-2FT
**Lab Sample ID: 480-125383-8**
**Date Collected: 10/05/17 15:40**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 381296 | 10/11/17 12:36 | CDC | TAL BUF |

## Client Sample ID: SB-29 0.6-2FT
**Lab Sample ID: 480-125383-8**
**Date Collected: 10/05/17 15:40**
**Matrix: Solid**
**Date Received: 10/05/17 18:20**
**Percent Solids: 87.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035A_L | | | 381517 | 10/06/17 01:30 | CDC | TAL BUF |
| Total/NA | Analysis | 8260C | | 1 | 381443 | 10/12/17 22:19 | CDC | TAL BUF |

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: LaBella Associates DPC
TestAmerica Job ID: 480-125383-1
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

## Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| New York | NELAP | 2 | 10026 | 03-31-18 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| Moisture | Percent Moisture | EPA | TAL BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 11075 Walden Avenue, Alden, NY

TestAmerica Job ID: 480-125383-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-125383-1 | SB-23 0.6-2FT | Solid | 10/05/17 10:45 | 10/05/17 18:20 |
| 480-125383-2 | SB-24 0.6-2FT | Solid | 10/05/17 11:30 | 10/05/17 18:20 |
| 480-125383-3 | SB-25 0.6-2FT | Solid | 10/05/17 12:00 | 10/05/17 18:20 |
| 480-125383-4 | SB-25 2-4FT | Solid | 10/05/17 12:00 | 10/05/17 18:20 |
| 480-125383-5 | SB-26 0.6-2FT | Solid | 10/05/17 12:55 | 10/05/17 18:20 |
| 480-125383-6 | SB-27 4-6FT | Solid | 10/05/17 13:45 | 10/05/17 18:20 |
| 480-125383-7 | SB-28 0.6-2FT | Solid | 10/05/17 14:10 | 10/05/17 18:20 |
| 480-125383-8 | SB-29 0.6-2FT | Solid | 10/05/17 15:40 | 10/05/17 18:20 |

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

# Chain of Custody Record

188030

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

480-125383 COC

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

| Client Contact | Project Manager: Adam Zebrowski | Site Contact: | Date: | COC No: |
|---|---|---|---|---|
| Company Name: LaBella Associates | Tel/Fax: azebrowski@labellapc.com | Lab Contact: | Carrier: | 1 of 1 COCs |
| Address: 300 Pearl St | Analysis Turnaround Time | | | Sampler: |
| City/State/Zip: Buffalo /NY | ☐ CALENDAR DAYS ☐ WORKING DAYS | | | For Lab Use Only: |
| Phone: 716-710-3043 | TAT if different from Below _____ | | | Walk-in Client: |
| Fax: | ☐ 2 weeks | | | Lab Sampling: |
| Project Name: 11075 Walden Ave | ☐ 1 week | | | |
| Site: 11075 Walden Ave Alden NY | ☐ 2 days | | | Job / SDG No.: |
| PO# 2171935 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | TCL VOCs | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|
| SB-23 0.6-2ft | 10/5/17 | 10:45 | G | Soil | 4 | | | X | |
| SB-24 0.6-2 ft | 10/5/17 | 11:30 | G | Soil | 4 | | | X | |
| SB-25 0.6-2 ft | 10/5/17 | 12:00 | G | Soil | 4 | | | X | |
| SB-25 2-4 ft | 10/5/17 | 12:00 | G | Soil | 4 | | | X | |
| SB-26 0.6-2 ft | 10/5/17 | 12:55 | G | Soil | 4 | | | X | |
| SB-27 4-6 ft | 10/5/17 | 13:45 | G | Soil | 4 | | | X | |
| SB-28 0.6-2 ft | 10/5/17 | 14:10 | G | Soil | 4 | | | X | |
| SB-29 0.6-2 ft | 10/5/17 | 15:40 | G | Soil | 4 | | | X | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

**Special Instructions/QC Requirements & Comments:**

2.8 Ok1

| Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: | Corr'd: | Therm ID No.: |
|---|---|---|---|---|

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Shawn Dalba | LaBella Associates | 10/5/17/18:20 | | DJB | 10/5/17 1820 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

# Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-125383-1

**Login Number: 125383**
**List Number: 1**
**Creator: Williams, Christopher S**

**List Source: TestAmerica Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | FREEZER ON 06OCT2017 @ 0130 |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | labella |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

# APPENDIX 2

Health and Safety Plan

# Site Health and Safety Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared For:

Mr. Jim Doro
Walden Realty Limited Partnership/ Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

May 2018

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

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Tables


Table 1 Exposure Limits and Recognition Qualities

# SITE HEALTH AND SAFETY PLAN

| | |
|---|---|
| **Project Title:** | 11075 Walden Avenue - Brownfield Cleanup Program |
| **Project Number:** | 2180605 |
| **Project Location (Site):** | 11075 Walden Avenue, Alden, New York 14004 |
| **Environmental Director:** | Rob Napieralski |
| **Project Manager:** | Adam Zebrowski |
| **Plan Review Date:** | _____ |
| **Plan Approval Date:** | _____ |
| **Plan Approved By:** | _____<br>Mr. Richard Rote, CIH |
| **Site Safety Supervisor:** | Chris Kibler |
| **Site Contact:** | Jim Doro, Doritex Corp. |
| **Safety Director:** | Rick Rote, CIH |
| **Proposed Date(s) of Field Activities:** | To Be Determined |
| **Site Conditions:** | 2.6± acres; Current Site features include green space to the north, west and south of the Site Building and asphalt-paved parking areas to the east and south of the Site Building. |
| **Site Environmental Information Provided By:** | ❑ Limited Environmental Due Diligence: Transaction Screen report, 11075 Walden Avenue, Alden, New York, prepared by Lender Consulting Services, Inc. dated May 4, 2017<br>❑ Supplemental Phase II Environmental Site Assessment report, 11075 Walden Avenue, Alden, New York, prepared by LaBella Associates, D.P.C. dated December 4, 2017 |
| **Air Monitoring Provided By:** | LaBella Associates, D.P.C. |
| **Site Control Provided By:** | LaBella Environmental, LLC |

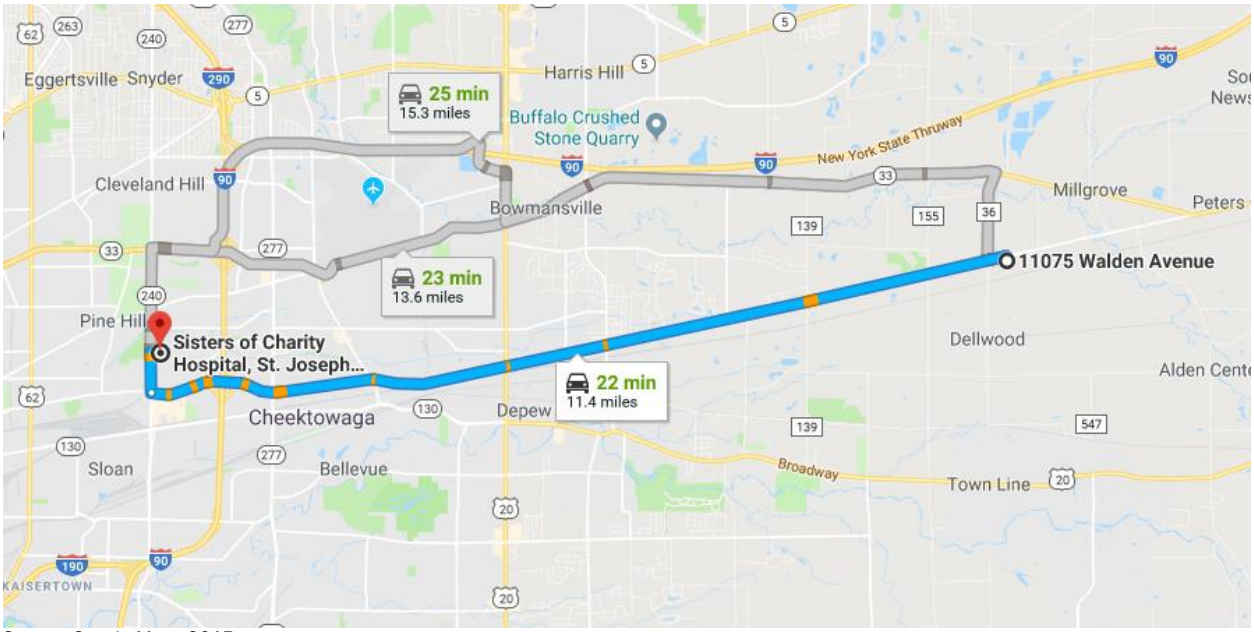
# EMERGENCY CONTACTS

| | Name | Phone Number |
|---|---|---|
| Ambulance: | As Per Emergency Service | 911 |
| Hospital Emergency: | St. Joseph's Hospital | 716-891-2606 |
| Poison Control Center: | National Poison Control Center (serving Buffalo Area) | 800-222-1222 |
| Police (local, state): | Erie County Sheriff's Department | 716-937-7675 |
| Fire Department: | Alden Village Fire Department | 716-937-9319 |
| Site Contact: | Jim Doro, Doritex Corp. | 716-684-6600 |
| Agency Contact: | NYSDEC – Anthony Lopes<br>NYSDOH – To Be Determined | 716-851-7220<br>To Be Determined |
| Environmental Director: | Rob Napieralski | Direct: 716-551-6283 |
| Project Manager: | Adam Zebrowski | Direct: 716-840-2548 |
| Site Safety Supervisor: | Shannon Dalton or Bonnie Gambrel | Direct: 716-551-6281 |
| Safety Director | Rick Rote, CIH (LaBella) | Direct: 704-941-2123 |

# MAP AND DIRECTIONS TO THE MEDICAL FACILITY
# - ST. JOSEPH'S HOSPITAL

11075 Walden Ave
Alden, NY 14004

1. Head west on Walden Ave toward Town Line Rd
   Pass by AutoZone (on the left in 6.4 mi)
   10.9 mi
2. Turn right onto Harlem Rd
   0.5 mi




Source: Google Maps 2015

## 1.0 INTRODUCTION

The purpose of this Health and Safety Plan (HASP) is to provide guidelines for responding to potential health and safety issues that may be encountered during the Interim Remedial Measure (IRM) at 11075 Walden Avenue in the Town of Alden, Erie County, New York (Site). This HASP only reflects the policies of LaBella Associates, D.P.C. The requirements of this HASP are applicable to all approved LaBella personnel at the work Site. This document's project specifications, and the Community Air Monitoring Plan (CAMP), are to be consulted for guidance in preventing and quickly abating any threat to human safety or the environment. The provisions of the HASP do not replace or supersede any regulatory requirements of the United States Environmental Protection Agency, New York State Department of Environmental Conservation, Occupational Safety and Health Administration or other regulatory bodies.

## 2.0 RESPONSIBILITIES

This HASP presents guidelines to minimize the risk of injury to project personnel, and to provide rapid response in the event of injury. The HASP is applicable only to activities of approved LaBella personnel and their authorized visitors. The Project Manager shall implement the provisions of this HASP for the duration of the project. It is the responsibility of LaBella employees to follow the requirements of this HASP, and all applicable company safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this HASP are limited to the following:

- Management of environmental investigation and remediation activities
- Environmental Monitoring
- Collection of samples
- Management of excavated soil and liquid waste (groundwater)

## 4.0 WORK AREA ACCESS AND SITE CONTROL

The contractor(s) will have primary responsibility for work area access and Site control.

## 5.0 POTENTIAL HEALTH AND SAFETY HAZARDS

This section lists some potential health and safety hazards that project personnel may encounter at the project Site and some actions to be implemented by approved personnel to control and reduce the associated risk to health and safety. This is not intended to be a complete listing of any and all potential health and safety hazards. New or different hazards may be encountered as Site environmental and Site work conditions change. The suggested actions to be taken under this plan are not to be substituted for good judgment on the part of project personnel. At all times, the Site Safety Officer has responsibility for Site safety and his instructions must be followed.

## 5.1 *Hazards Due to Heavy Machinery*

### Potential Hazard:

Heavy machinery including drilling rigs, excavators, trailers, etc. will be in operation at the Site. The presence of such equipment presents the danger of being struck or crushed and can also create noise pollution. Use caution when working near heavy machinery.

### Protective Action:

Make sure that operators are aware of your activities, and heed operator's instructions and warnings. Wear bright colored clothing and walk safe distances from heavy equipment. A hard hat, safety glasses, steel toe shoes and ear protection are required.

## 5.2 *Excavation Hazards*

### Potential Hazard:

Excavations and trenches can collapse, causing injury or death. Edges of excavations can be unstable and collapse. Toxic and asphyxiant gases can accumulate in confined spaces and trenches. Excavations that require working within the excavation will require air monitoring in the breathing zone (refer to Section 9.0).

Excavations left open create a fall hazard which can cause injury or death.

### Protective Action:

Personnel must receive approval from the Project Manager to enter an excavation for any reason. Subsequently, approved personnel are to receive authorization for entry from the Site Safety Officer. Approved personnel are not to enter excavations over 4 feet in depth unless excavations are adequately sloped. Additional personal protective equipment may be required based on the air monitoring.

While shoring is planned for the proposed excavation, personnel should exercise caution near all excavations at the Site as excavation sidewalls may become unstable. Do not proceed closer than 3 feet to an unsupported or non-sloped excavation side wall. The contractor will be responsible to ensure that all excavations are left in a safe condition.

Excavations shall be backfilled immediately following completion. If this is not possible, fencing and/or barriers accompanied by "no trespassing" signs should be placed around all excavations when left open for any period of time when work is not being conducted.

## 5.3 *Cuts, Punctures and Other Injuries*

### Potential Hazard:

In any excavation and construction work Site there is the potential for the presence of sharp or jagged edges on rock, metal materials, and other sharp objects. Serious cuts and punctures can result in loss of blood and infection.

### Protective Action:

The Project Manager is responsible for making First Aid supplies available at the work Site to treat minor injuries. The Site Safety Officer is responsible for arranging the transportation of authorized on-site personnel to medical facilities when First Aid treatment in not sufficient. Do not move seriously injured workers. All injuries requiring treatment are to be reported to

the Project Manager. Serious injuries are to be reported immediately to the Site Safety Officer.

### *5.4 Injury Due to Exposure of Chemical Hazards*

**Potential Hazards:**

Contaminants identified in testing locations at the Site include various chlorinated solvent volatile organic compounds (VOCs). Volatile organic vapors, chlorinated solvents or other chemicals may be encountered during subsurface activities at the project work Site. Inhalation of high concentrations of volatile organic vapors can cause headache, stupor, drowsiness, confusion and other health effects. Skin contact can cause irritation, chemical burn, or dermatitis. In addition, as subsurface activities will take place within the Site Building, there is the potential for carbon monoxide build-up to occur as a result of machinery operation. Inhalation of high concentrations of carbon monoxide can cause headache, stupor, drowsiness, confusion and other health effects including death.

**Protective Action:**

The use of properly selected Personal Protective Equipment (PPE), adherence to standard health and safety pre-cautions (e.g., no smoking or eating within work area or prior to personal decontamination), and implementation of routine dust suppression methods will effectively minimize exposure to the known contaminants on-site.

The presence of organic vapors may be detected by their odor and by monitoring instrumentation. Approved employees will not work in environments where hazardous concentrations of organic vapors are present. Air monitoring (refer to Section 9.0) of the work area will be performed at least every 60 minutes or more often using a Photoionization Detector (PID). Personnel are to leave the work area whenever PID measurements of ambient air exceed 25 parts per million (ppm) consistently for a 5 minute period. In the event that sustained total volatile organic compound (VOC) readings of 25 ppm are encountered personnel should upgrade personal protective equipment to Level C (refer to Section 8.0) and an Exclusion Zone should be established around the work area to limit and monitor access to this area (refer to Section 6.0).

As the potential for Carbon monoxide build-up exists during subsurface activities, the work area will be properly ventilated in real-time. Carbon monoxide concentrations will also be evaluated at least every 60 minutes or more often using a Carbon Monoxide detector. If concentrations of carbon monoxide are identified in exceedance of 10 ppm during subsurface activities, additional ventilation of the work area will be required prior to commencing with such.

### *5.5 Injuries due to extreme hot or cold weather conditions*

**Potential Hazards:**

Extreme hot weather conditions can cause heat exhaustion, heat stress and heat stroke or extreme cold weather conditions can cause hypothermia.

**Protective Action:**

Precaution measures should be taken such as dress appropriately for the weather conditions and drink plenty of fluid. If personnel should suffer from any of the above conditions, proper techniques should be taken to cool down or heat up the body and taken to the nearest hospital if needed.

### *5.6 Injuries due to Saw Cutting of Concrete Surfaces*

**Potential Hazards:**

As saw cutting of the interior concrete slab will be required in order to proceed with the excavation of chlorinated solvent VOC-impacted soils beneath the Site Building, there is the potential for worker exposure to silica dust.

**Protective Action:**

It is recommended that approved personnel conducting saw cutting activities wear at a minimum a ½ face respirator with organic vapor cartridges. On-site personnel not associated with saw cutting activities should remain a safe distance and (if applicable) upwind from the work area during such to avoid exposure to potential silica dust.

## 6.0 WORK ZONES

In the event that conditions warrant establishing various work zones (i.e., based on hazards - Section 5.0), the following work zones should be established:

**Exclusion Zone (EZ):**

The EZ will be established in the immediate vicinity and adjacent downwind direction of Site activities that elevate breathing zone VOC concentrations to unacceptable levels based on field screening. These Site activities include contaminated soil excavation and soil sampling activities. If access to the Site is required to accommodate non-project related personnel then an EZ will be established by constructing a barrier around the work area (yellow caution tape and/or construction fencing). The EZ barrier shall encompass the work area and any equipment staging/soil staging areas necessary to perform the associated work. The contractor(s) will be responsible for establishing the EZ and limiting access to approved personnel. Depending on the condition for establishing the EZ, access to the EZ may require adequate PPE (e.g., Level C).

**Contaminant Reduction Zone (CRZ):**

The CRZ will be the area where personnel entering the EZ will don proper PPE prior to entering the EZ and the area where PPE may be removed. The CRZ will also be the area where decontamination of equipment and personnel will be conducted as necessary.

## 7.0 DECONTAMINATION PROCEDURES

Upon leaving the work area, approved personnel shall decontaminate footwear as needed. Under normal work conditions, detailed personal decontamination procedures will not be necessary. Work clothing may become contaminated in the event of an unexpected splash or spill or contact with a contaminated substance. Minor splashes on clothing and footwear can be rinsed with clean water. Heavily contaminated clothing should be removed if it cannot be rinsed with water. Personnel assigned to this project should be prepared with a change of clothing whenever on Site.

Personnel will use the contractor's disposal container for disposal of PPE.

## 8.0 PERSONAL PROTECTIVE EQUIPMENT

Generally, Site conditions at this work Site require level of protection of Level D or modified Level D; however, air monitoring will be conducted to determine if up-grading to Level C PPE is required (refer to Section 9.0). Descriptions of the typical safety equipment associated with Level D and Level C are provided below:

**Level D:**

Hard hat, safety glasses, rubber nitrile sampling gloves, steel toe construction grade boots, etc.

**Level C:**

Level D PPE and full or ½-face respirator and tyvek suit (if necessary). [*Note: Organic vapor cartridges are to be changed after each 8-hours of use or more frequently.*]

## 9.0 AIR MONITORING

According to 29 CFR 1910.120(h), air monitoring shall be used to identify and quantify airborne levels of hazardous substances and health hazards in order to determine the appropriate level of employee protection required for personnel working onsite. Air monitoring will consist at a minimum of the procedure listed below. Air monitoring instruments will be calibrated and maintained in accordance with the manufacturer's specifications.

The Air Monitor will utilize a PID to screen the ambient air in the work areas (drilling, excavation, soil staging, and soil grading areas) for total VOCs, DustTrak tm Model 8520 aerosol monitors or equivalent for measuring particulates and a carbon monoxide detector for total carbon monoxide concentrations. Work area ambient air will generally be monitored in the work area and downwind of the work area. Air monitoring of the work areas and downwind of the work areas will be performed at least every 60 minutes using a PID, the DustTrak meter and a carbon monoxide detector.

If sustained PID readings of greater than 25 ppm are recorded in the breathing zone, either personnel are to leave the work area until satisfactory readings are obtained or approved personnel may re-enter the work areas wearing at a minimum a ½ face respirator with organic vapor cartridges for an 8-hour duration (i.e., upgrade to Level C PPE). Organic vapor cartridges are to be changed after each 8-hour use or more frequently, if necessary. If PID readings are sustained, in the work area, at levels above 50 ppm for a 5 minute average, work will be stopped immediately until safe levels of VOCs are encountered or additional PPE will be required (i.e., Level B).

As the potential for Carbon monoxide build-up exists during subsurface activities, the work area will be properly ventilated in real-time. If concentrations of carbon monoxide are identified in exceedance of 10 ppm during subsurface activities, additional ventilation of the work area will be required prior to commencing with such.

## 10.0 EMERGENCY ACTION PLAN

In the event of an emergency, employees are to turn off and shut down all powered equipment and leave the work areas immediately. Employees are to walk or drive out of the Site as quickly as possible, wait at the assigned "safe area" and follow the instructions of the Site Safety Officer.

Employees are not authorized or trained to provide rescue and medical efforts. Rescue and medical efforts will be provided by local authorities.

## 11.0 MEDICAL SURVEILLANCE

Medical surveillance will be provided to all employees who are injured due to overexposure from an emergency incident involving hazardous substances at this Site.

## 12.0 EMPLOYEE TRAINING

Personnel who are not familiar with this Site plan will receive training on its entire content and organization before working at the Site.

Individuals involved with the remedial investigation must be 40-hour OSHA HAZWOPER trained with current 8-hour refresher certification.

# Table 1
## Exposure Limits and Recognition Qualities

| Compound | PEL-TWA (ppm)(b)(d) | TLV-TWA (ppm)(c)(d) | STEL (ppm)(b) | LEL (%)(e) | UEL (%)(f) | IDLH (ppm)(g)(d) | Odor | Odor Threshold (ppm) | Ionization Potential |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 750 | 500 | NA | 2.15 | 13.2 | 20,000 | Sweet | 4.58 | 9.69 |
| Anthracene | .2 | .2 | NA | NA | NA | NA | Faint aromatic | NA | NA |
| Benzene | 1 | 0.5 | 5 | 1.3 | 7.9 | 3000 | Pleasant | 8.65 | 9.24 |
| Benzo (a) pyrene (coal tar pitch volatiles) | 0.2 | 0.1 | NA | NA | NA | 700 | NA | NA | NA |
| Benzo (a)anthracene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (b) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (g,h,i)perylene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (k) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA | NA | NA | NA | NA | 10.88 |
| Carbon Disulfide | 20 | 1 | NA | 1.3 | 50 | 500 | Odorless or strong garlic type | .096 | 10.07 |
| Chlorobenzene | 75 | 10 | NA | 1.3 | 9.6 | 2,400 | Faint almond | 0.741 | 9.07 |
| Chloroform | 50 | 2 | NA | NA | NA | 1,000 | ethereal odor | 11.7 | 11.42 |
| Chrysene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethylene | 200 | 200 | NA | 9.7 | 12.8 | 400 | Acrid | NA | 9.65 |
| 1,2-Dichlorobenzene | 50 | 25 | NA | 2.2 | 9.2 | | Pleasant | | 9.07 |
| Ethyl Alcohol | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | 100 | 100 | NA | 1.0 | 6.7 | 2,000 | Ether | 2.3 | 8.76 |
| Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropyl Alcohol | 400 | 200 | 500 | 2.0 | 12.7 | 2,000 | Rubbing alcohol | 3 | 10.10 |
| Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 500 | 50 | NA | 12 | 23 | 5,000 | Chloroform-like | 10.2 | 11.35 |
| Naphthalene | 10, Skin | 10 | NA | 0.9 | 5.9 | 250 | Moth Balls | 0.3 | 8.12 |
| n-propylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phosphoric Acid | 1 | 1 | 3 | NA | NA | 10,000 | NA | NA | NA |
| Polychlorinated Biphenyl | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Potassium Hydroxide | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| p-Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethane | NA | NA | NA | NA | NA | NA | Sweet | NA | NA |
| Toluene | 100 | 100 | NA | 0.9 | 9.5 | 2,000 | Sweet | 2.1 | 8.82 |
| Trichloroethylene | 100 | 50 | NA | 8 | 12.5 | 1,000 | Chloroform | 1.36 | 9.45 |
| 1,2,4-Trimethylbenzene | NA | 25 | NA | 0.9 | 6.4 | NA | Distinct | 2.4 | NA |
| 1,3,5-Trimethylbenzene | NA | 25 | NA | NA | NA | NA | Distinct | 2.4 | NA |
| Vinyl Chloride | 1 | 1 | NA | NA | NA | NA | NA | NA | NA |
| Xylenes (o,m,p) | 100 | 100 | NA | 1 | 7 | 1,000 | Sweet | 1.1 | 8.56 |
| ***Metals*** | | | | | | | | | |
| Arsenic | 0.01 | 0.2 | NA | NA | NA | 100, Ca | NA | NA | NA |
| Cadmium | 0.2 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | 1 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | 0.05 | 0.15 | NA | NA | NA | 700 | NA | NA | NA |
| Mercury | 0.05 | 0.05 | NA | NA | NA | 28 | NA | NA | NA |
| Selenium | 0.2 | 0.02 | NA | NA | NA | Unknown | NA | NA | NA |

(a) Skin = Skin Absorption
(b) OSHA-PEL Permissible Exposure Limit (flame weighted average, 8-hour): NIOSH Guide, June 1990
(c) ACGIH – 8 hour time weighted average from Threshold Limit Values and Biological Exposure Indices for 2003.
(d) Metal compounds in mg/m3
(e) Lower Exposure Limit (%)
(f) Upper Exposure Limit (%)
(g) Immediately Dangerous to Life or Health Level: NIOSH Guide, June 1990.

**Notes:**
1. All values are given in parts per million (PPM) unless otherwise indicated.
2. Ca = Possible Human Carcinogen, no IDLH information.

# APPENDIX 3

Community Air Monitoring Plan

# Site Community Air Monitoring Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared for:

Mr. Jim Doro
Walden Realty Limited Partnership/ Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

May 2018

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List of Attachments

Attachment 1: NYSDOH Community Air Monitoring Plan
Attachment 2: NYSDEC Fugitive Dust and Particulate Monitoring Plan

## 1.0 INTRODUCTION

The purpose of this Site Community Air Monitoring Plan (CAMP) is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of remedial work activities at the Site located at 11075 Walden Avenue in the Town of Alden, Erie County, New York. This Site-Specific Air Monitoring Program (SSAMP) is not intended for use in establishing action levels for worker respiratory protection.

This SSAMP requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust), at the downwind perimeter of each designated work area when certain activities are in progress at the Site. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the SSAMP will help to confirm that work activities have not spread contamination off-site through the air.

## 2.0 RESPONSIBILITIES

This SSAMP is applicable to the remedial activities of contractors, engineers, consultants, facility employees, and their authorized visitors. The Project Manager shall implement the provisions of this SSAMP for the duration of the project. It is the responsibility of all remedial workers to follow the requirements of this SSAMP, and all applicable air safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this SSAMP include the following:

- Management of environmental investigation and remediation activities
- Environmental monitoring
- Collection of samples
- Management of excavated soil and liquid waste (groundwater)

## 4.0 WORK AREA ACCESS AND SITE CONTROLS

The contractor(s) will have primary responsibility for work area access and site control.

## 5.0 VOLATILE ORGANIC COMPOUND MONITORING

Monitoring for VOCs will be implemented in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan, which is included in Attachment 1.

## 6.0 PARTICULATE MONITORING

Monitoring for dust will be implemented in accordance with the NYSDOH Generic Community Air Monitoring Plan (Attachment 1) as well as New York State Department of Environmental Conservation's Fugitive Dust and Particulate Monitoring (Attachment 2).

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# ATTACHMENT 1

## NYSDOH Community Air Monitoring Plan

**Attachment 1**
**New York State Department of Health**
**Generic Community Air Monitoring Plan**

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/$m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/$m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/$m^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/$m^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

# ATTACHMENT 2

## NYSDEC Fugitive Dust and Particulate Monitoring Plan

## Attachment 2
## Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50$^{o}$ C (14 to 122$^{o}$ F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

# Supplemental Interim Remedial Measures Work Plan – In Situ Remediation

Location:

BCP Site # C915333
11075 Walden Avenue
Alden, New York 14004

Prepared for:

Mr. Jim Doro
Walden Realty Limited Partnership/ Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

April 14, 2020

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# 1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) is pleased to submit this Supplemental Interim Remedial Measures (IRM) Work Plan (IRMWP) to conduct remedial activities at 11075 Walden Avenue, Town of Alden, Erie County, New York, herein after referred to as the "Site." Walden Realty Limited Partnership/Doritex Corp. entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on January 19, 2018 (Site #C915333). A Site Location Map is included as Figure 1.

Interim Remedial Measure and Remedial Investigation activities consistent with that outlined within the IRMWP and Remedial Investigation Work Plan (RIWP) dated November 28, 2018 have been completed at the Site. Based on the work completed to date, as summarized in Section 3.0, limited residual subsurface chlorinated volatile organic compound (cVOC) (solvent)-impacted soil remains adjacent and beneath the limits of the IRM Excavation completed in June 2018. In addition, limited cVOC-impacted groundwater appears to be present downgradient of the IRM Excavation within groundwater monitoring well MW-12. The purpose of this Supplemental IRMWP is to establish methods to reduce the severity of the cVOC impacted soil and groundwater located proximate the IRM Excavation and reduce the potential for cVOC impacted groundwater to migrate off-site beyond the west Site boundary.

The activities in this Supplemental IRMWP will be carried out in accordance with the NYSDEC's Department of Environmental Remediation (DER)-10 (*Technical Guidance for Site Investigation and Remediation)* issued May 3, 2010.

# 2.0 SITE DESCRIPTION AND HISTORY

## *2.1 Site Description and Surrounding Properties*

The Site consists of one tax parcel (SBL #96.00-4-6.2) totaling 2.6± acres. The Site is located in a suburban area south of Walden Avenue and west of Commerce Drive. Figure 2 illustrates the location and boundaries of the current tax parcel associated with the Site. Current Site features include one, single-story 34,858 square foot vacant commercial building (Site Building) on the central portion of the Site. Exterior areas include green space to the north, west, and south of the Site Building, and asphalt-paved parking areas to the east and south of the Site Building.

## *2.2 Site History*

The Site consisted of undeveloped land from at least 1880 to at least 1951 and agricultural land from at least 1938 to at least 1951. The Site appears to have been developed with the original portion of the Site Building in at least 1964. The Site was historically utilized as a commercial laundry facility, including dry cleaning, from at least 1988 (potentially as early as the 1970s) through 2006. It should be noted that the Site was listed within the Federal Drycleaners, Resource Conservation and Recovery Act Generator, and Aerometric Information Retrieval System's programs associated with the dry cleaning operations. The Site also reportedly utilized a septic system prior to the mid-1980s. Floor drains noted throughout the Site Building may have previously discharged to an on-site septic system. Furthermore, former on-site operations reportedly included printing. Although available resources to date were consulted, the use of the Site Building in the 1960s is unknown. Adjacent properties have been historically utilized agriculturally and commercially.

### *2.3 Site Geology and Hydrogeology*

According to the United States Department of Agriculture Erie County Soil Survey, soils at the Site consist mainly of Kendaia silt loam. Soils of this type are characterized by silt loam, gravelly silt loam and gravelly loam and are generally considered to be somewhat poorly-drained soil. Based on the results of LaBella's December 4, 2017 Phase II Environmental Site Assessment (ESA) report and completed tasks related to Remedial Investigation and Interim Remedial Measures (as of August 2019), non-native materials at the Site have included 0.5-foot concrete slabs, asphalt-paved parking areas and sub-base layers associated with the concrete slabs, and asphalt-paved parking areas to depths of between 0.5 and one feet below the ground surface (ft bgs). In addition, a fill layer consisting of brown silty clay intermingled with trace gravel, rock and concrete was encountered to depths ranging from one to two ft bgs proximate the Site Building foundation areas. Native soils generally consisted of brown-red to brown-gray clayey silts with traces of gravel, typical of outwash plains and alluvial fans to a depth of approximately 35 ft bgs throughout the Site. Static water level has been measured in the on-site wells over the course of several dates and throughout different seasons of the year between 2017 and 2019. Considering this, depth to groundwater has been measured at the Site ranging between one and 22 ft bgs. Bedrock beneath the Site is reported to consist of Marcellus Formation black shale, limestone and sandstone, dating from the Middle Devonian period.

## 3.0 PREVIOUS INVESTIGATIONS

This Supplemental IRMWP scope of work was developed utilizing information collected from the Site to date including information generated as a result of IRM and RI activities. Based on the results of IRM activities completed in June 2018, the IRM Excavation was advanced beneath the concrete slab located within the west central portion of the Site Building in attempt to eliminate what appears to be the primary source of cVOCs at the Site. The IRM Excavation successfully removed approximately 218-tons of cVOC impacted soil from beneath the west central interior of the Site Building; however, visual and olfactory evidence of impact persisted at a depth of 10 ft bgs within the south portion of the IRM Excavation. Additional excavation within the south portion of the excavation was not feasible as such would have potentially destabilized of the Site Building foundation located along the west limits of the IRM Excavation. The IRM Excavation was subsequently backfilled with approved material and cVOC impacted soil removed from the IRM Excavation was transported off-site for proper disposal.

None of the post-confirmatory soil samples collected from the IRM Excavation limits identified VOC concentrations exceeding NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (SCOs), with the exception of the post-confirmatory soil sample Floor 1. Floor 1 collected from the south portion of the IRM Excavation at 10 ft bgs identified a concentration of tetrachloroethene (PCE) of 170,000 micrograms per kilogram (µg/kg) which exceeds the NYSDEC Part 375 Commercial Use Soil Cleanup Objective (SCO) of 150,000 µg/kg. It should be noted that groundwater samples collected from MW-12 immediately west of the IRM Excavation in March 2019 and July 2019 identified PCE concentrations of 1,000 micrograms per liter (µg/l) and 2,500 µg/l, respectively.

To further evaluate the vertical and horizontal extent of the soil impact identified within the south portion of the IRM Excavation proximate Floor 1 and the groundwater conditions immediately downgradient of the IRM Excavation, five deep soil borings (SB-40 through SB-45) were advanced proximate Floor 1, the periphery of the IRM Excavation, and one 2-inch permanent groundwater monitoring well (MW-15) was installed downgradient of the IRM Excavation in July and August 2019.

The deep soil borings were advanced to a maximum depth of between 24 and 35 ft bgs. Soil and groundwater samples were collected from each of the deep soil borings and MW-15, and submitted for laboratory analysis for Target Compound List (TCL) VOCs. Soil samples collected from SB-40 from 15-16 ft bgs and 23-24 ft bgs identified PCE concentrations of 310,000 µg/kg and 82,000 µg/kg respectively; however, no VOCs were detected exceeding NYSDEC Part 375 Commercial Use SCOs or NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) in the remaining soil or groundwater samples collected proximate the IRM Excavation. Based on the information collected to date related to the subsurface conditions at the Site and proximate the IRM Excavation, it appears that subsurface soil cVOC-impact is confined horizontally to the immediate vicinity of Floor 1/SB-40 and groundwater cVOC impact is limited to proximate MW-12.

Investigation locations completed to date, the IRM Excavation limits, post-confirmatory soil sampling locations, and groundwater flow direction are depicted on Figure 3 through Figure 5 attached to this work plan. Soil and groundwater laboratory results are included within Table 2 through Table 6 attached to this work plan. In addition, subsurface logs and a groundwater monitoring well construction diagram related to soil borings SB-40 through SB-45, and groundwater monitoring well MW-15 are included within Appendix 1.

## 4.0 STANDARDS, CRITERIA, AND GUIDANCE

This section identifies the Standards, Criteria and Guidance (SCG) for the Site. The SCG identified are used in order to quantify the extent of contamination at the Site that require remedial work based on the cleanup goal. The SCG to be utilized as part of the implementation of this Supplemental IRMWP will include NYSDEC TOGS 1.1.1 AWQS. Table 1 presents the complete list of the applicable SCG to be utilized as part of the implementation of this Supplemental IRMWP.

## 5.0 AREAS OF CONCERN

The purpose of this Supplemental IRMWP is to improve subsurface conditions proximate to and downgradient of area of concern (AOC) #2: Impacted Soil and AOC #3: Impacted Groundwater and retard potential future migration of contaminants towards the west property boundary. Elevated concentrations of PCE remain the subsurface beneath the IRM Excavation, specifically proximate Floor 1/SB-40 and MW-12. It should be noted that AOC #1: Impacted Soil Vapor is excluded from this Supplemental IRMWP.

## 6.0 OBJECTIVES

The objective of this Supplemental IRM is to inject a mixture of Anaerobic BioChem and Zero Valent Iron to provide enhanced reductive dechlorination of the remaining subsurface solvent constituents beneath the IRM Excavation and proximate the west exterior of the Site Building. This proposed Supplemental IRM is intended to improve subsurface conditions proximate to and downgradient of the IRM Excavation and retard potential future migration of contaminants towards the west property boundary from the IRM Excavation. The overall objective for the Site remains as a re-use for commercial-type operations.

# 7.0 SUMMARY OF REMEDIAL GOALS

The proposed future use of the Site is commercial in nature. As such, this Supplemental IRM is intended to eliminate or mitigate significant threats to public health and/or the environment presented by the subsurface impacts identified through previous investigations with the continued application of scientific and engineering principles. The Remedial Goals for this Supplemental IRMWP are as follows:

1) Install approximately 25 temporary injection points within and immediately surrounding the IRM Excavation beneath the west central portion of the Site Building.
2) Install approximately 13 temporary injection points proximate the west exterior of the Site Building immediately down-gradient of the Floor 1/SB-40.
3) Perform two groundwater sampling events subsequent injection completion. Such will include collection of groundwater samples from groundwater monitoring wells MW-12 and MW-15.

# 8.0 INTERIM REMEDIAL MEASURES PLAN

Based on the goals and objectives of this Supplemental IRM as summarized above in Section 6.0 and 7.0, the cVOC concentrations present in the subsurface, and the hydrogeological conditions at the Site, the injection methods (i.e. injection material, volume, depth, locations, etc.) were calculated as is summarized in Section 8.1 below. All Supplemental IRM field activities will be completed in accordance with the Site Health and Safety Plan (HASP) and Site Community Air Monitoring Plan (CAMP) included in Appendix 2 and Appendix 3, respectively.

## *8.1 Enhanced Reductive Dechlorination Injections*

The enhanced reductive dechlorination application is a slurry-like mixture of lactates, fatty acids, and a phosphate buffer. This Anearobic BioChem (ABC®) and Zero Valent Iron (ZVI), or ABC+, mixture also contains soluble lactic acid as well as slow and long term releasing components. The phosphate buffer provides phosphates, which are a micronutrient for in situ bioremediation. This buffer also helps to maintain the pH in a range that is ideal for microbial growth. The addition of ZVI to the mixture provides a number of advantages for enhanced reductive dechlorination. The ZVI will provide an immediate reducing action. This corrosion of the iron will yield ferrous iron and hydrogen, both of which are potential reducing agents. The hydrogen gas produced from this reaction is also an excellent energy source for a wide range of bacteria. This method of treatment for cVOCs has been proven and widely accepted as an effective means of in situ remediation for cVOCs. Product information and safety data sheets related to ABC+ are included within Appendix 4. The Standard Operating Procedure for ABC+ Injections is included in Appendix 5. It should be noted that the work performed may require modification should unanticipated subsurface conditions be encountered during field activities.

### *8.1.1 Utility Location*

Prior to advancement of the injection locations as summarized below within Sections 8.1.2 and 8.1.3, LaBella will retain the services of a qualified sub-consultant to locate utilities within the area to be disturbed by the injections. Methods utilized to assess utility locations may include but not necessarily limited to use of utility locating, ground penetrating radar, and magnetometer equipment.

It should be noted that the results of the utility location has the potential to alter the anticipated injection locations during field activities.

### *8.1.2 Source Area Injections*

It is anticipated that approximately 25 injection locations will be advanced within a 50 foot by 50 foot plot centered on the source area (IRM Excavation and Floor 1/SB-40) spaced on a grid approximately 10 feet apart. A total of approximately 6,300 gallons of ABC+ mixture will be injected within the source area. The anticipated injection locations are depicted in the attached Figure 6. Each source area injection location will be advanced with a 1.5-inch diameter direct-push injection point to reach a target depth of approximately 30 ft bgs. Once the target depth is reached, an expendable point will be released from the end of the geoprobe and the ABC+ mixture will be introduced at each injection location from the bottom of the injection location upwards at two to four foot increments as the geoprobe equipment is extracted. If daylighting of the mixture becomes apparent, it may be necessary to advance additional injection points. Care will be taken to monitor the shallow backfill material in the previous excavation area to prevent it from becoming a preferential outlet. This will be accomplished by gauging/sounding the injection material as the injections are ongoing. It should be noted that this method of direct push injections will not generate soil cuttings.

### *8.1.3 Downgradient Injections*

It is anticipated that approximately 13 injection locations will be advanced in two offset rows along a 50 foot transect spaced on a grid approximately 10 feet apart proximate the west exterior of the Site Building. A total of approximately 2,500 gallons of ABC+ mixture will be injected within the downgradient area. The anticipated injection locations are depicted in the attached Figure 6. Each downgradient injection location will be advanced 1.5-inch diameter direct-push injection point to reach a target depth of approximately 30 ft bgs. Once the target depth is reached, an expendable point will be released from the end of the geoprobe and the ABC+ mixture will be introduced at each injection location from the bottom of the injection location upwards at two to four foot increments as the geoprobe equipment is extracted. If daylighting of the mixture becomes apparent, it may be necessary to advance additional injection points. Care will be taken to monitor the shallow backfill material in the previous excavation area to prevent it from becoming a preferential outlet. This will be accomplished by gauging/sounding the injection material as the injections are ongoing. It should be noted that this method of direct push injections will not generate soil cuttings.

Good housekeeping practices will be followed to prevent leaving contaminated material on the ground surface (e.g., precautions will be taken to prevent impacts to the ground surface due to material spilled from the drilling or injection equipment). Any material that does spill on to the ground surface will be promptly picked up and placed in an appropriate location.

## *8.2 Groundwater Sampling*

Prior to field activities related to the Enhanced Reductive Dechlorination Injections summarized above, groundwater monitoring wells MW-12 and MW-15 will be purged of at least three well volumes, or to dry, and groundwater samples will be collected and submitted under standard chain of custody procedures to a New York State Department of Health approved laboratory for analysis for TCL VOCs using United States Environmental Protection Agency Method 8260. In addition, groundwater samples will be collected from groundwater monitoring wells MW-12 and MW-15 utilizing the same methods above approximately 90 days subsequent completion of the Enhanced Reductive Dechlorination Injections. Groundwater elevations will be collected from each existing

permanent groundwater monitoring well located at the Site concurrent with each sampling event to establish groundwater flow direction.

### *8.3 Waste Stream Tracking and Verification*

Should waste be generated, the following documentation will be kept in relation to waste streams as applicable:

- Correspondence from the facility accepting the waste stream
- Waste profiles
- Waste characterization sampling and analytical results
- Manifests
- Bills of lading
- Weight tickets

The tracking information will be provided in the IRM Construction Completion Report (See Section 9.0 for details).

### *8.4 Site Restoration*

Following completion of the Supplemental IRM, it is anticipated that the injection locations will be backfilled generally to pre-existing grade with bentonite. Should additional material be required to backfill the soil borings, such will be closed in accordance with NYSDEC DER-10 guidelines. Interior injection locations will be concrete patched to match the existing floor.

### *8.5 Temporary Controls & Site Safety*

Water mist and other suitable methods to limit the spread of any dust, dirt and vapors/odors/gases shall be used as deemed necessary by the guidelines provided in the site-specific CAMP (Appendix 3). The methods to control fugitive dust, dirt, and vapors/odors/gases may include one or more of the following:

- Providing and maintaining all equipment needed to control dust, vapors, and odors prior to starting the intrusive tasks.
- Properly ventilating interior work areas.

See the site-specific CAMP (Appendix 3) for additional information on air monitoring, action levels, and engineering controls to address fugitive dust, dirt, and vapors/odors/gases. Additionally, the Supplemental IRM will consist of safely containing the project work area, and maintaining traffic and access to the Site as needed to ensure public safety.

In order to protect pedestrians as well as Site workers from the hazards associated with completing the Supplemental IRM, appropriate precautionary measures will be taken to provide adequate safety measures. These safety measures will include (note: some of these measures may not be necessary for smaller excavations):

- If appropriate, approximate respirators will be worn by the Site workers in accordance with the HASP included in Appendix 2.
- Placing orange plastic construction/snow fencing or temporary chain link fencing around the work area to establish an exclusion zone.

- Establishing a contaminant reduction zone for personal decontamination (removal of personal protective equipment) and decontamination pad for equipment.
- Donning high visibility vests, hard hats, and safety glasses on-site during IRM activities.
- Adhering to the Site HASP included in Appendix 2.

### *8.6 Decontamination Pad*

Equipment that comes into contact with impacted material will be properly decontaminated prior to leaving the Site. Wastes generated from decontamination of equipment will be contained and added to other waste stream materials generated at the Site and disposed of properly off-site. A decontamination pad is not anticipated to be necessary at the Site for the scope of this Supplemental IRM.

### 8.7 Waste Handling & Disposal

Excess liquids will be containerized within 55-gallon drums or plastic totes for subsequent proper characterization and disposal. Excess soil if generated will be containerized in 55-gallon drums or placed on plastic and covered, for subsequent proper characterization and disposal.

## 9.0 IRM SCHEDULE AND REPORTING – DELIVERABLES

The information and laboratory analytical data obtained during the Supplemental IRM will be included in an IRM Construction Completion Report (CCR). The CCR will be completed in accordance with NYSDEC DER-10 Section 5.8.

It is anticipated that implementation of the Supplemental IRMWP will begin the first or second week of May 2020. Completion of the field work is anticipated to require approximately one to two weeks subsequent to implementation of the IRMWP *(Note: this timeframe does not include laboratory analysis or data validation).* The IRM CCR will be submitted within two months of receipt of laboratory analytical results.

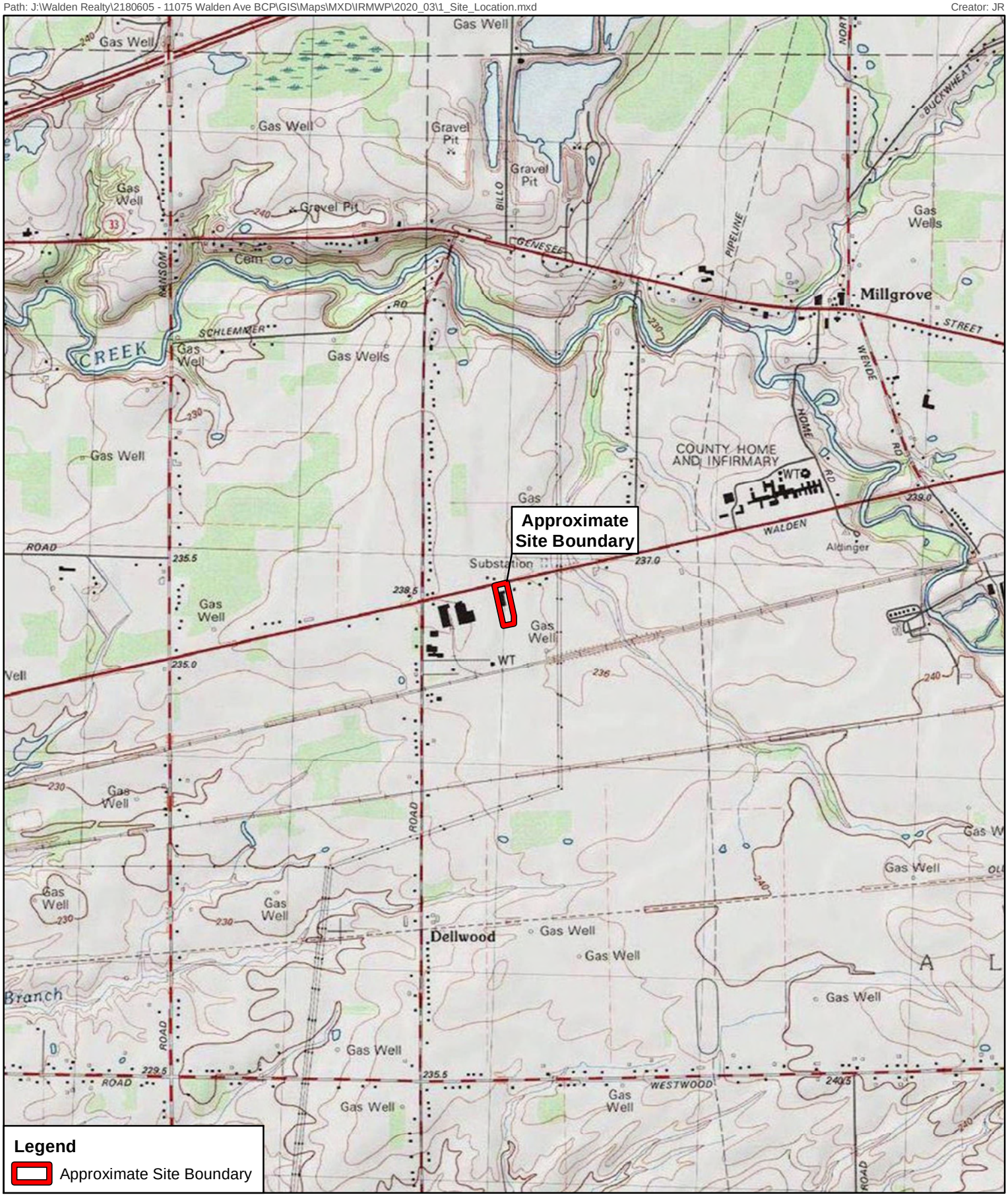
The above schedule assumes that an addendum to the IRMWP will not be required. If an IRMWP addendum is required, it will be submitted as the need is identified and it will include a revised schedule.

In addition to the IRM CCR, all data will also be submitted in the NYSDEC-approved EDD format. The data will be submitted on a continuous basis immediately after data validation occurs.

# FIGURES

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Creator: JR




| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 1**<br>3/27/2020 | Site Location Map | 11075 Walden Avenue<br>Alden, New York |

N

0 1,000 2,000 Feet

LaBella
Powered by partnership.

Data Source: LaBella 2020; National Geographic Society, i-cubed 2013.

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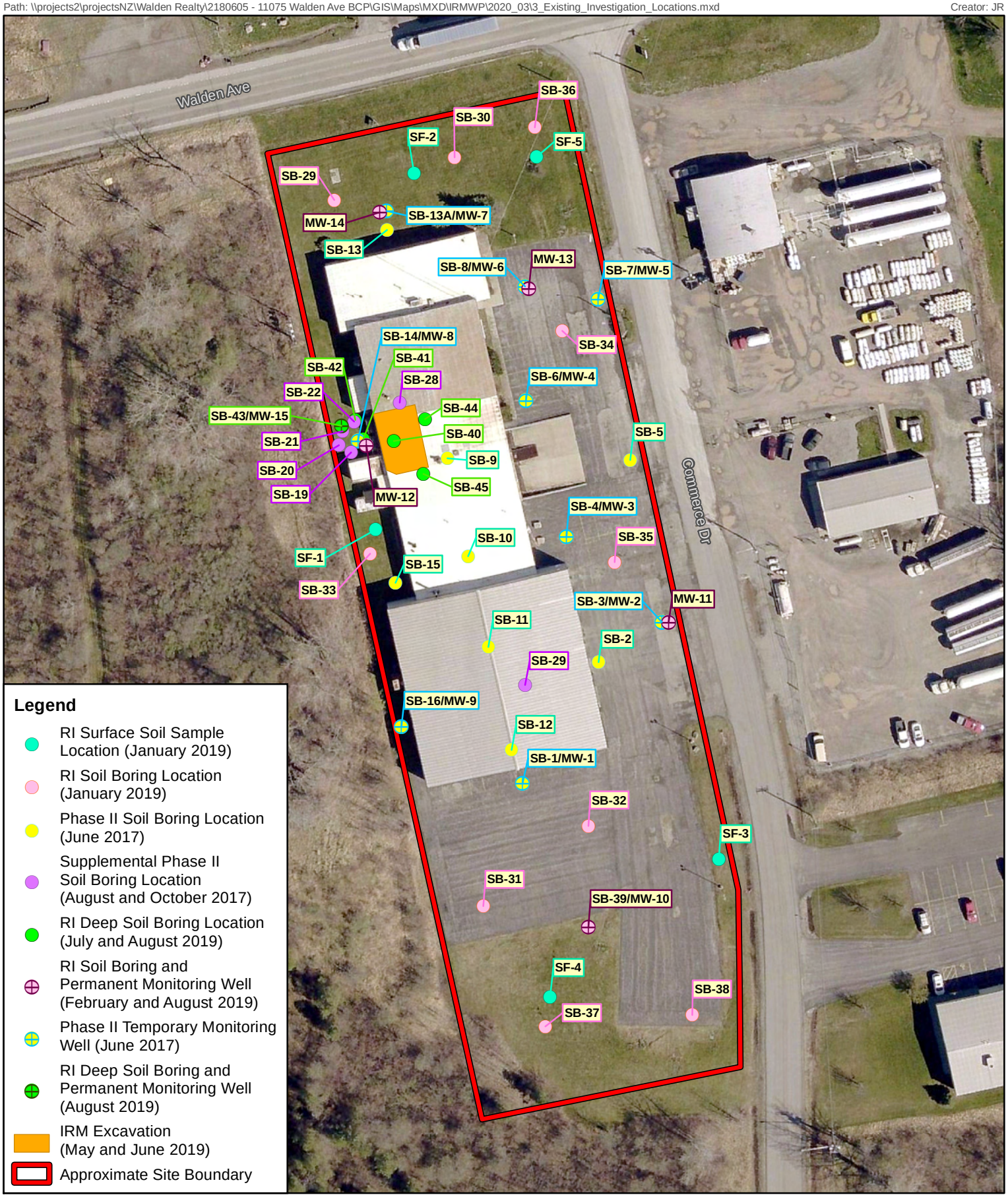

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|---|---|---|
| 2180605<br>**Figure 2**<br>3/27/2020 | Site Base Map | 11075 Walden Avenue<br>Alden, New York |

N

0 50 100 Feet

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Data Source: Erie County 2019; LaBella 2020; Pictometry 2017.




## Legend

- RI Surface Soil Sample Location (January 2019)
- RI Soil Boring Location (January 2019)
- Phase II Soil Boring Location (June 2017)
- Supplemental Phase II Soil Boring Location (August and October 2017)
- RI Deep Soil Boring Location (July and August 2019)
- RI Soil Boring and Permanent Monitoring Well (February and August 2019)
- Phase II Temporary Monitoring Well (June 2017)
- RI Deep Soil Boring and Permanent Monitoring Well (August 2019)
- IRM Excavation (May and June 2019)
- Approximate Site Boundary

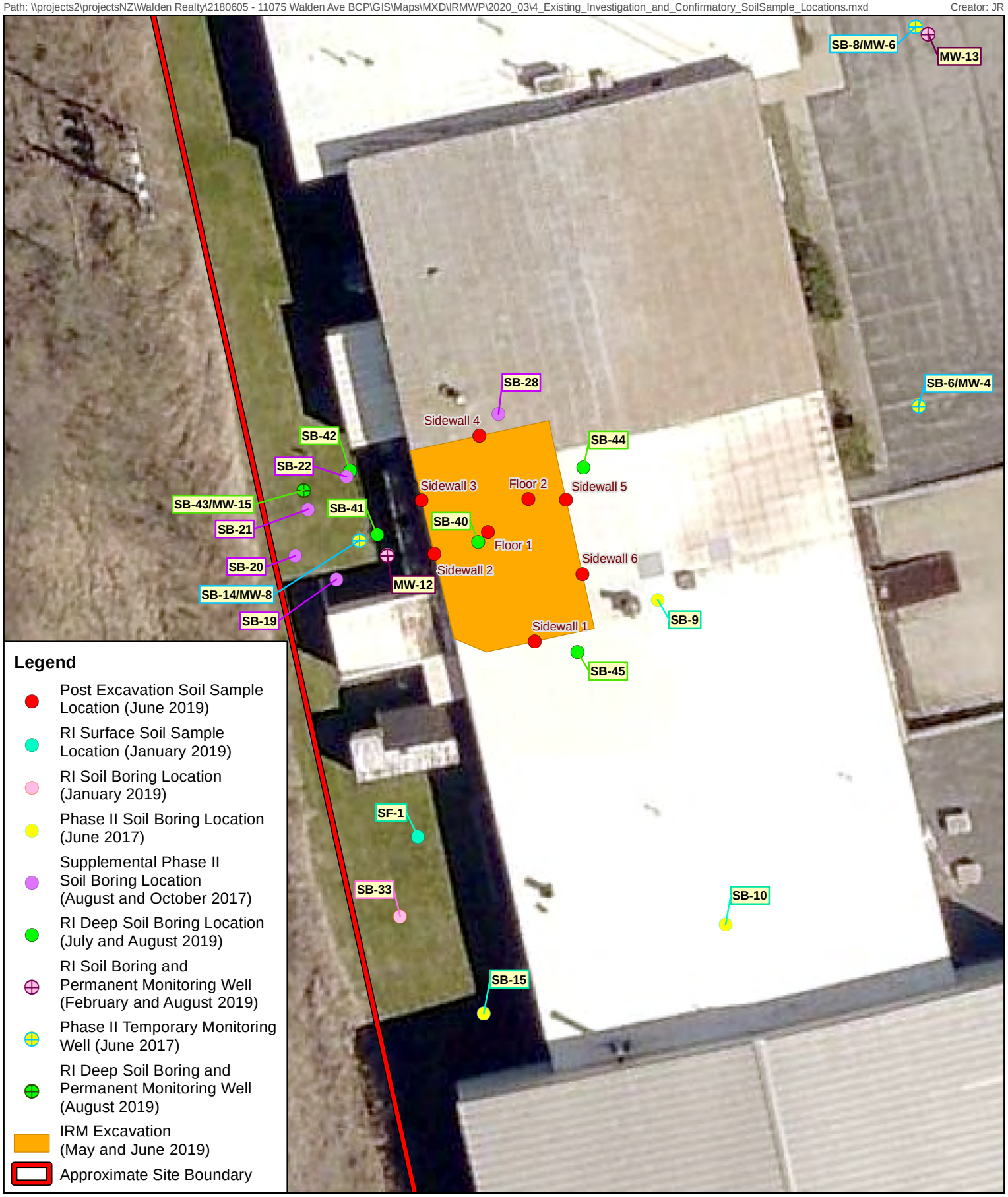
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|---|---|---|
| 2180605<br>**Figure 3**<br>4/9/2020 | Existing Investigation Locations | 11075 Walden Avenue<br>Alden, New York |

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LaBella
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Data Source: LaBella 2017 - 2020; Pictometry 2017.




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|---|---|---|---|
| 2180605<br>**Figure 4**<br>4/9/2020 | Existing Investigation and Confirmatory Soil Sample Locations | 11075 Walden Avenue<br>Alden, New York | N<br>0 10 20<br>Feet<br>LaBella<br>Powered by partnership. |

Data Source: LaBella 2017 - 2020; Pictometry 2017.

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|---|---|---|
| 2180605<br>**Figure 5**<br>4/9/2020 | Groundwater Contour Map | 11075 Walden Avenue<br>Alden, New York |

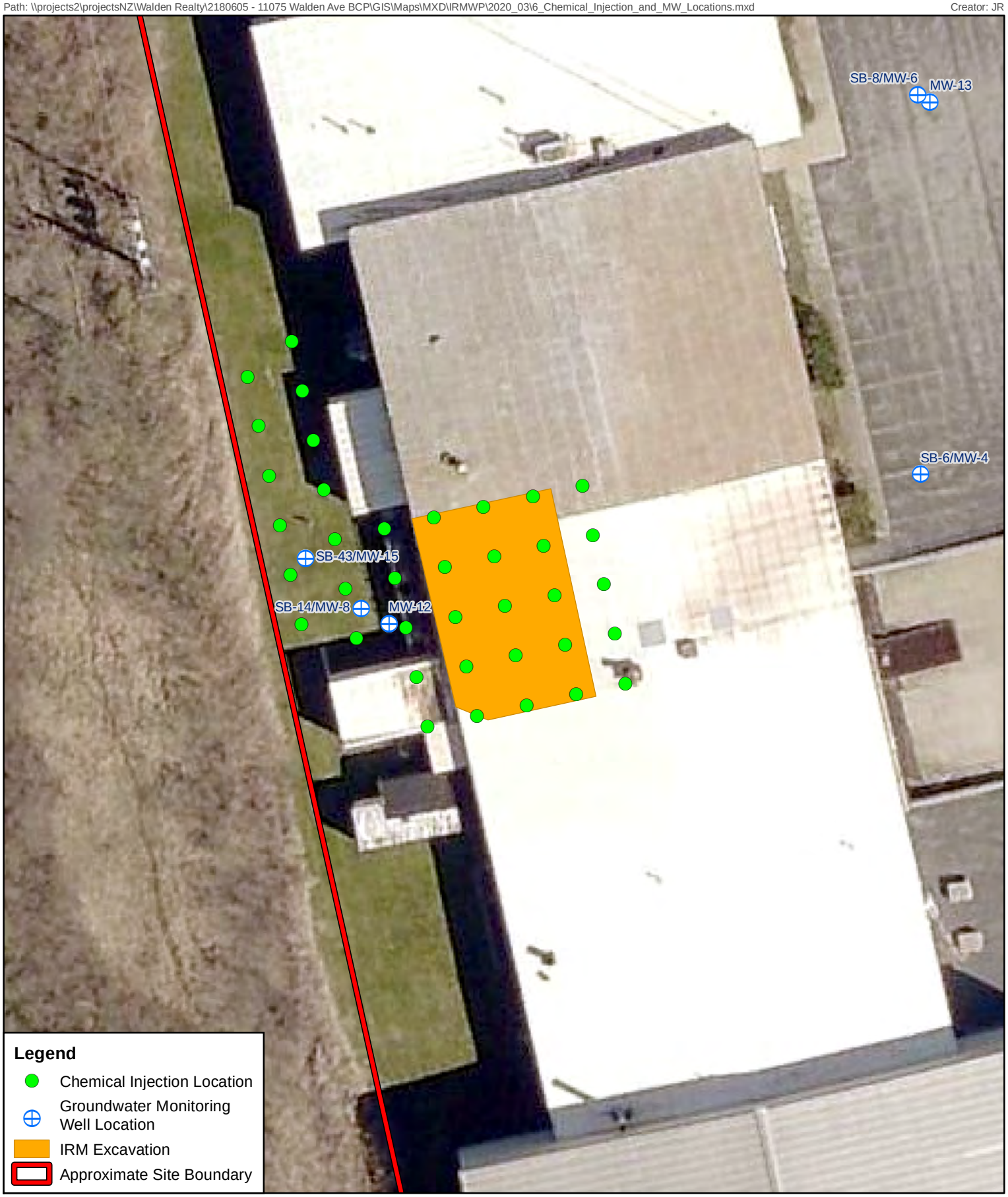
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Data Source: LaBella 2019, 2020; Pictometry 2017.

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| PROJECT # / DRAWING # / DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>**Figure 6**<br>3/31/2020 | Chemical Injection and Groundwater Monitoring Well Locations | 11075 Walden Avenue<br>Alden, New York |

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LaBella
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Data Source: LaBella 2020; Pictometry 2017.

# TABLES

# Table 1
# 11075 Walden Avenue
# Alden, New York
# NYSDEC TOGS Standards, Values & Limitations

| Contaminants | CAS No. | NYSDEC TOGS |
|---|---|---|
| **Volatile Organic Compounds (ug/L)** | | |
| Acetone | 67-64-1 | 50 |
| Benzene | 71-43-2 | 1 |
| Bromobenzene | 108-86-1 | 5.0 |
| Bromochloromethane | 74-97-5 | 5.0 |
| Bromodichloromethane | 75-27-4 | 50 |
| Bromoform | 75-25-2 | 50 |
| Bromomethane | 74-83-9 | 5.0 |
| n-Butylbenzene | 104-51-8 | 5.0 |
| sec-Butylbenzene | 135-98-8 | 5.0 |
| tert-Butylbenzene | 98-06-6 | 5.0 |
| Carbon Disulfide | 75-15-0 | NL |
| Carbon tetrachloride | 56-23-5 | 5.0 |
| Chlorobenzene | 108-90-7 | 5.0 |
| Chloroethane | 75-00-3 | 5.0 |
| Chloroform | 67-66-3 | 7 |
| Chloromethane | 74-97-5 | NL |
| Cyclohexane | 110-82-7 | NL |
| Dibromochloromethane | 124-48-1 | 50 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.04 |
| 1,2-Dibromoethane | 106-93-4 | NL |
| 1,2-Dichlorobenzene | 95-50-1 | 3.0 |
| 1,3-Dichlorobenzene | 541-73-1 | 3.0 |
| 1,4-Dichlorobenzene | 106-46-7 | 3.0 |
| Dichlorodifluoromethane | 75-71-8 | 5.0 |
| 1,1-Dichloroethane | 75-34-3 | 5.0 |
| 1,2-Dichloroethane | 107-06-2 | 0.6 |
| cis-1,2-Dichloroethene | 156-59-2 | 5.0 |
| trans-1,2-Dichloroethene | 156-60-5 | 5.0 |
| 1,2-Dichloropropane | 78-87-5 | 1.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.4 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.4 |
| 1,4-Dioxane | 123-91-1 | NL |
| Ethylbenzene | 100-41-4 | 5.0 |
| 2-Hexanone | 591-78-6 | 50 |
| Hexachlorobenzene | 118-74-1 | 0.04 |
| Isopropylbenzene | 577-55-9 | 5.0 |
| Methyl Acetate | 79-20-9 | NL |
| Methylcyclohexane | 108-87-2 | NL |
| Methylene Chloride | 75-09-2 | 5.0 |
| Methyl ethyl ketone (2-Butanone) | 78-93-3 | 50 |
| 4-Methyl-2-pentanone | 108-10-1 | NL |
| Methyl tert-butyl ether | 1634-04-4 | 10 |
| Naphthalene | 91-20-3 | 10 |
| n-propylbenzene | 103-65-1 | 5.0 |
| Styrene | 100-42-5 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5.0 |
| Tetrachloroethene | 127-18-4 | 5.0 |
| Toluene | 108-88-3 | 5.0 |
| 1,2,3-Trichlorobenzene | 87-61-6 | 5.0 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5.0 |
| 1,1,1-Trichloroethane | 71-55-6 | 5.0 |
| 1,1,2-Trichloroethane | 79-00-5 | 1.0 |
| Trichloroethene | 79-01-6 | 5.0 |
| Trichlorofluoromethane | 75-69-4 | 5.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.0 |
| Vinyl Acetate | 108-05-4 | NL |
| Vinyl Chloride | 75-01-4 | 2.0 |
| p/m-Xylene | 179601-23-1 | 5.0 |
| o-Xylene | 95-47-6 | 5.0 |

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC), Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

NL = Not listed

ug/L = Micrograms per liter

CAS No. = Chemical Abstracts Service Number

**Table 2**
**11075 Walden Avenue**
**Alden, New York**
**Summary of Phase II Environmental Site Assessment Subsurface Soil Analytical Results**
**(Detected Analytes Only)**

| Sample ID | SB-1 | SB-2 | SB-3 | SB-4 | SB-6 | SB-7 | SB-8 | SB-11 | SB-12 | SB-13A | SB-14 | SB-16 | SB-19 | SB-20 | SB-21 | SB-22 | SB-28 | SB-29 | Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth | 0.3-1 ft bgs | 1-2 ft bgs | 9-10 ft bgs | 5-6 ft bgs | 10-11 ft bgs | 4-5 ft bgs | 2-3 ft bgs | 1-2 ft bgs | 0.6-1 ft bgs | 2-3 ft bgs | 8-9 ft bgs | 1-2 ft bgs | 14-16 ft bgs | 8-10 ft bgs | 14-16 ft bgs | 4-6 ft bgs | 0.6-2 ft bgs | 0.6-2 ft bgs | |
| Sample Date | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 10/5/2017 | 10/5/2017 | |
| **Volatile Organic Compounds (µg/kg)** | | | | | | | | | | | | | | | | | | | |
| Acetone | 2.7 J | NA | < | < | 6.7 J | < | 22 | NA | NA | 56 | < | < | 9 J | < | 6.7 J | < | 25 | 37 | < |
| Chlorobenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 500,000 |
| Cyclohexane | 0.44 J | NA | < | 0.35 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | 0.7 J | NL |
| 1,1-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 500,000 |
| cis-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 1.1 | < | < | < | < | < | 0.45 J | 24 | 500,000 |
| trans-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | 1.5 J | 500,000 |
| Ethylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 390,000 |
| Isopropylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | NL |
| Methylcyclohexane | 0.58 J | NA | < | 0.33 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | NL |
| Methylene chloride | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 500,000 |
| Methyl ethyl ketone (2-Butanone) | < | NA | < | < | < | < | < | NA | NA | 9.2 | < | < | < | < | < | < | < | < | 500,000 |
| 4-Methyl-2-pentanone | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | NL |
| Tetrachloroethene | 1.3 | NA | < | < | < | < | < | NA | NA | < | 170 | < | 0.59 J | < | < | < | 6.4 B | 0.99 J B | 150,000 |
| Toluene | 0.24 J | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 500,000 |
| Trichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 5.6 | < | < | < | < | < | < | < | 200,000 |
| Vinyl Chloride | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | 2.4 J | 13,000 |
| Total Xylenes | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | 500,000 |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | |
| Arsenic | 2.4 J | 4.87 | NA | NA | NA | NA | NA | 2.06 | 4.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 16 |
| Barium | 22.6 | 104 | NA | NA | NA | NA | NA | 11.3 | 38.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 400 |
| Cadmium | 0.107 | 0.307 J | NA | NA | NA | NA | NA | 0.715 | 0.158 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.3 |
| Chromium | 7.37 | 8.84 | NA | NA | NA | NA | NA | 9.38 | 15.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 400/1,500* |
| Lead | 8.2 | 20.4 | NA | NA | NA | NA | NA | 20.3 | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1,000 |
| Mercury | < | 0.04 J | NA | NA | NA | NA | NA | < | 0.02 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.8 |
| Selenium | 0.4 J | 0.627 J | NA | NA | NA | NA | NA | 0.198 J | 0.869 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1,500 |

Commercial Use SCOs = New York State Department of Environmental Conservation (NYSDEC) Part 375 Commercial Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

< = Not detected

NL = Not listed

NA = Not analyzed

ft bgs = Feet below the ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

* = Chromium, hexavalent/Chromium, trivalent (The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.)

B = The compound was found in the blank and sample.

Table 3

11075 Walden Avenue

Alden, New York

Summary of Remedial Investigation Surface Soil Analytical Results

(Detected Analytes Only)

| Sample ID | SF-1 | SF-2 | SF-3 | SF-4 | SF-5 | Commercial Use SCOs |
|---|---|---|---|---|---|---|
| Depth (ft bgs) | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | 0-0.5 | |
| Sample Date | 1/23/2019 | 1/23/2019 | 1/23/2019 | 1/24/2019 | 1/24/2019 | |
| **Semi-Volatile Organic Compounds (µg/kg)** | | | | | | |
| Benzo(a)anthracene | < | 25 J | < | < | 51 J | 5,600 |
| Benzo(b)fluoranthene | < | 32 J | < | < | 99 J | 5,600 |
| Benzo(k)fluoranthene | < | < | < | < | 31 J | 56,000 |
| Benzo(g,h,i)perylene | < | < | < | < | 52 J | 500,000 |
| Benzo(a)pyrene | < | < | < | < | 61 J | 1,000 |
| Chrysene | < | 20 J | < | < | 67 J | 56,000 |
| bis(2-Ethylhexyl)phthalate | < | 100 J | < | < | < | NL |
| Fluoranthene | < | 47 J | < | < | 150 | 500,000 |
| Indeno(1,2,3-cd)pyrene | < | < | < | < | 51 J | 5,600 |
| Naphthalene | 43 J | < | < | < | < | 500,000 |
| Phenanthrene | < | < | < | < | 55 J | 500,000 |
| Pyrene | < | 34 J | < | < | 120 | 500,000 |
| **Pesticides / Herbicides (µg/kg)** | | | | | | |
| 4,4-DDE | 0.446 JP | < | < | < | < | 62,000 |
| alpha-BHC | < | < | < | < | 2.94 | 3,400 |
| Trams-Chlordance | 0.988 JIP | 1.36 JIP | 0.795 JIP | < | < | NL |
| **PCBs (µg/kg)** | | | | | | |
| Aroclor 1248 | < | < | < | < | < | 1,000 |
| Aroclor 1260 | < | < | 11.6 J | < | 7.6 J | 1,000 |
| **Metals (mg/kg)** | | | | | | |
| Aluminum | 8,030 | 10,200 | 13,000 | 6,060 | 3,150 | NL |
| Antimony | 0.631 J | 0.654 J | 0.515 J | < | < | NL |
| Arsenic | 5.24 | 4.95 | 4.74 | 3.96 | 1.88 | 16 |
| Barium | 62.6 | 66 | 87.9 | 29.1 | 18.3 | 400 |
| Beryllium | 0.436 J | 0.436 J | 0.362 J | 0.247 J | 0.160 J | 590 |
| Cadmium | < | < | < | 0.265 J | 0.214 J | 9.3 |
| Calcium | 6,540 | 2,330 | 73,900 | 54,400 | 76,400 | NL |
| Chromium | 11.1 | 14.6 | 16.5 | 11.2 | 6.2 | *400/1500 |
| Cobalt | 4.6 | 7.28 | 6.82 | 5.49 | 2.34 | NL |
| Copper | 13 | 12 | 15.2 | 15.9 | 6.19 | 270 |
| Iron | 14,700 | 18,300 | 16,800 | 14,900 | 9,130 | NL |
| Lead | 28.8 | 13.5 | 11.1 | 17.4 | 10.1 | 1,000 |
| Magnesium | 3,390 | 3,450 | 17,700 | 30,200 | 40,400 | NL |
| Manganese | 351 | 478 | 395 | 436 | 384 | 10,000 |
| Mercury | 0.031 J | 0.038 J | < | < | < | 2.8 |
| Nickel | 10.4 | 15.5 | 14.1 | 12.7 | 5.98 | 310 |
| Potassium | 599 | 999 | 3,870 | 550 | 429 | NL |
| Selenium | 1 J | 0.6 J | 1.78 J | < | < | 1,500 |
| Sodium | 55.6 J | 57.6 J | 472 | 108 J | 135 J | NL |
| Vanadium | 18.9 | 22.1 | 25.8 | 16.7 | 10.9 | NL |
| Zinc | 93 | 92.3 | 70.5 | 116 | 72.2 | 10,000 |

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< = Not detected

NL = Not listed

NA = Not analyzed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

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

P = The relative percent difference between the results for the two columns exceeds the method-specified criteria

ft bgs = Feet below ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

* 400/1,500= Hexavalent chromium/Trivalent chromium

Table 4
11075 Walden Avenue
Alden, New York
Summary of RI Subsurface Soil Analytical Results
(Detected Analytes Only)

| Sample ID | SB-30 | SB-32 | SB-33 | SB-35 | SB-37 | SB-39 | SB-40 | SB-40 | SB-41 | SB-41 | SB-42 | SB-42 | SB-43 | SB-43 | SB-44 | SB-44 | SB-45 | SB-45 | DUP | Trip Blank | DUP | Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | 8-10 | 2-4 | 1-3 | 3-5 | 2-4 | 2-4 | 15-16 | 23-24 | 25-26 | 34-35 | 21-22 | 34-35 | 24-25 | 34-35 | 22-23 | 34-35 | 21-22 | 34-35 | N/A | N/A | N/A | |
| Sample Date | 1/23/2019 | 1/23/2019 | 1/23/2019 | 1/24/2019 | 1/24/2019 | 1/24/2019 | 7/8/2019 | 7/8/2019 | 8/14/2019 | 8/14/2019 | 8/14/2019 | 8/14/2019 | 8/15/2019 | 8/15/2019 | 8/16/2019 | 8/16/2019 | 8/16/2019 | 8/16/2019 | 1/24/2019 | 1/24/2019 | 8/16/2019 | |
| **Volatile Organic Compounds (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 4.3 J | < | < | 6.9 J | < | 5.2 J | < | < | 5.1 | 9.8 | 4.8 J | 9.2 | 8.8 | 11 | < | < | < | 6.1 J | < | 8.4 J | < | 500,000 |
| Benzene | < | < | < | 0.15 J | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 44,000 |
| Chloroform | < | 0.12 J | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 350,000 |
| cis-1,2-Dichloroethene | < | < | < | < | < | 1.4 | < | < | < | < | < | < | < | < | < | < | 46 | < | 1.5 | < | < | 500,000 |
| trans-1,2-Dichloroethene | < | | < | < | < | | | | < | < | < | < | 0.3 J | < | < | < | < | < | < | < | < | 500,000 |
| Tetrachloroethene | < | < | < | < | < | 1.4 | 310,000 | 82,000 | < | < | < | < | < | < | < | < | 360 | < | 1.5 | < | < | 150,000 |
| Toluene | < | < | 0.37 J | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 2.2 | < | 500,000 |
| Trichloroethene | < | < | < | < | < | 0.30 J | 1,600 | 1,900 | < | < | < | < | < | < | < | < | 12 J | < | 0.27 J | < | < | 200,000 |
| **Semi-Volatile Organic Compounds (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | |
| Benzo(a)anthracene | < | < | < | < | 24 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 5,600 |
| Benzo(b)fluoranthene | < | < | < | < | 32 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 5,600 |
| Benzo(k)fluoranthene | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 56,000 |
| Benzo(g,h,i)perylene | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 500,000 |
| Benzo(a)pyrene | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 1,000 |
| Chrysene | < | < | < | < | 26 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 56,000 |
| bis(2-Ethylhexyl)phthalate | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | NL |
| Fluoranthene | < | < | < | < | 78 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 500,000 |
| Indeno(1,2,3-cd)pyrene | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 5,600 |
| Naphthalene | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 500,000 |
| Phenanthrene | < | < | < | < | 39 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 500,000 |
| Pyrene | 18 J | < | < | < | 59 J | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 500,000 |
| **Pesticides / Herbicides (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | |
| 4,4-DDE | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 62,000 |
| alpha-BHC | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 3,400 |
| Trams-Chlordance | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | NL |
| **PCBs (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1248 | < | < | < | 12.2 J | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 1,000 |
| Aroclor 1260 | < | < | < | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 1,000 |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | |
| Aluminum | 8,680 | 10,100 | 16,000 | 4,380 | 7,650 | 6,590 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 6,020 | NA | NA | NL |
| Antimony | 1.09 J | 0.887 J | 0.650 J | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | NL |
| Arsenic | 4.62 | 5.23 | 5.83 | 3.04 | 2.45 | 2.99 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3.92 | NA | NA | 16 |
| Barium | 66.8 | 72.1 | 117 | 24.5 | 58.6 | 47 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 59 | NA | NA | 400 |
| Beryllium | 0.419 J | 0.54 | 0.443 J | 0.227 J | 0.3 J | 0.256 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.242 J | NA | NA | 590 |
| Cadmium | 0.568 J | 0.722 J | < | 0.263 J | 0.254 J | 0.273 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.259 J | NA | NA | 9.3 |
| Calcium | 64,300 | 2,900 | 103,000 | 12,400 | 65,100 | 70,900 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 70,400 | NA | NA | NL |
| Chromium | 13.1 | 13.3 | 18.7 | 7.37 | 13.3 | 11.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 10.5 | NA | NA | *400/1500 |
| Cobalt | 7.23 | 10.1 | 7.74 | 3.17 | 6.4 | 6.77 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 5.45 | NA | NA | NL |
| Copper | 20.2 | 14.6 | 19.2 | 6.35 | 15.6 | 12.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 11.2 | NA | NA | 270 |
| Iron | 17,200 | 19,400 | 18,900 | 12,600 | 16,700 | 15,500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 14,300 | NA | NA | NL |
| Lead | 9.6 | 49.3 | 14.1 | 19.1 | 9.66 | 10.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.19 | NA | NA | 1,000 |
| Magnesium | 20,900 | 3,490 | 24,400 | 7,810 | 20,500 | 22,700 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 21,200 | NA | NA | NL |
| Manganese | 336 | 644 | 373 | 331 | 337 | 349 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 312 | NA | NA | 10,000 |
| Mercury | < | < | 0.096 | < | < | < | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 2.8 |
| Nickel | 19.3 | 17.2 | 15.3 | 7.44 | 15.6 | 13.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 11.9 | NA | NA | 310 |
| Potassium | 1,520 | 746 | 5,900 | 408 | 1,260 | 1,160 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1,070 | NA | NA | NL |
| Selenium | < | < | 1.62 J | < | < | 0.229 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | NA | 1,500 |
| Sodium | 193 | 59.3 J | 708 | 55.4 J | 136 J | 153 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 147 J | NA | NA | NL |
| Vanadium | 18.2 | 24.4 | 33 | 13.2 | 18.7 | 17.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 16.5 | NA | NA | NL |
| Zinc | 56 | 79.8 | 64.4 | 96.7 | 56.7 | 66.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 57.8 | NA | NA | 10,000 |

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N/A = Not applicable

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

P = The relative percent difference between the results for the two columns exceeds the method-specified criteria

ft bgs = Feet below ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

* 400/1,500= Hexavalent chromium/Trivalent chromium

**Table 5**
**11075 Walden Avenue**
**Alden, New York**
**Summary of Phase II Environmental Site Assessment & Remedial Investigation Groundwater Analytical Results**
**(Detected Analytes Only)**

| Sample ID | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-12 | MW-13 | MW-14 | MW-15 | DUP | TRIP BLANK | Equipment Rinse | NYSDEC TOGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Date** | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 2/28/2019 | 2/28/2019 | 3/1/2019 | 7/9/2019 | 2/28/2019 | 2/28/2019 | 8/21/2019 | 2/28/2019 | 2/28/2019 | 2/28/2019 | |
| **Volatile Organic Compounds (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| Acetone | 18 | 110 | 18 | 63 | 58 | 76 | 62 | 47 | 30 | 37 | 3.6 J | 58 | < | 280 | 43 | 20 | 4 J | 2.4 J | NA | 50 |
| Benzene | 0.34 J | 0.34 J | 0.5 | 0.23 J | 0.38 J | 0.24 J | < | 0.28 J | 0.18 J | < | < | < | < | < | < | < | < | < | NA | 1 |
| Carbon Disulfide | 1.3 J | 3 J | < | 1.8 J | 13 | < | < | 3.6 J | < | < | < | < | < | < | < | < | < | < | NA | NL |
| Cyclohexane | < | < | 0.43 J | < | 0.41 J | < | < | < | < | < | < | < | < | < | < | < | < | < | NA | NL |
| cis-1,2-Dichloroethene | < | < | < | < | < | < | < | < | < | < | < | < | 470 | < | < | < | < | < | NA | 5 |
| 2-Hexanone | < | < | < | < | < | < | 2 J | < | < | 1 J | < | < | < | 3.5 J | 1.4 J | < | < | < | NA | 50 |
| Methylcyclohexane | < | < | 0.63 J | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NA | NL |
| Methyl ethyl ketone (2-Butanone) | < | 27 | 4.2 J | 15 | 11 | 14 | 14 | 12 | 5.8 | < | < | < | < | 15 | 5.3 | < | < | < | NA | 50 |
| Tetrachloroethene | 0.36 J | < | 0.31 J | < | < | < | < | 0.89 | < | < | < | 1,000 | 2,500 | < | < | < | < | < | NA | 5 |
| Toluene | < | < | 0.75 J | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NA | 5 |
| Trichloroethene | < | < | < | < | < | < | < | < | < | < | < | 19 | 950 | < | < | < | < | < | NA | 5 |
| Vinyl Chloride | < | < | < | < | < | < | < | < | < | < | < | 2.3 J | 12 J | < | < | < | < | < | NA | 2 |
| **Semi-Volatile Organic Compounds (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| Acetophenone | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | 2.2 J | NA | 1 J | < | NA | < | NA | NA | NL |
| Anthracene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.02 J | < | 0.02 J | NA | 0.03 J | 0.02 J | NA | < | NA | NA | 50 |
| Benzo(b)fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.04 J | < | NA | < | NA | NA | 0.002 |
| Benzo(k)fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | 0.01 J | NA | 0.03 J | < | NA | < | NA | NA | 0.002 |
| Benzo(g,h,i)perylene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.03 J | < | NA | < | NA | NA | NL |
| Benzo(a)pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.03 J | < | NA | < | NA | NA | NL |
| Benzaldehyde | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | 1.4 J | NA | 1.5 J | < | NA | < | NA | NA | NL |
| Di-n-butylphthalate | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.41 J | < | NA | < | NA | NA | 50 |
| Bis(2-ethylhexyl)phthalate | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 1.8 J | < | NA | < | NA | NA | 5 |
| Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.03 J | < | < | NA | 0.14 | 0.04 J | NA | < | NA | NA | 50 |
| Fluorene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.2 | < | 0.3 | NA | 0.31 | < | NA | < | NA | NA | 50 |
| Indeno(1,2,3-cd)pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.02 J | < | NA | < | NA | NA | 0.002 |
| 3-Methylphenol/4-Methylphenol | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | 0.95 J | NA | 1.8 J | < | NA | < | NA | NA | NL |
| 2-Methylnaphthalene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.17 | 0.03 J | 0.51 | NA | 0.25 | 0.1 J | NA | < | NA | NA | NL |
| Naphthalene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.07 J | < | 0.19 | NA | 1.3 | < | NA | < | NA | NA | 10 |
| Phenanthrene | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.97 | 0.06 J | 0.74 | NA | 1.6 | 0.74 | NA | < | NA | NA | 50 |
| Phenol | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | 3 J | NA | 3.3 J | 0.71 J | NA | < | NA | NA | 1 |
| Pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.09 J | 0.02 J | NA | < | NA | NA | 50 |
| **Pesticides / Herbicides (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 4,4-DDD | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.025 JIP | 0.004 J | < | NA | 0.027 J | < | NA | < | NA | NA | 0.3 |
| **PCBs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| Total PCBS | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | < | < | NA | < | NA | NA | NL |
| **Metals (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| Aluminum | NA | NA | NA | NA | NA | NA | NA | NA | NA | 4.85 | 0.125 | 0.391 | NA | 11.3 | 0.105 | NA | 0.118 | NA | NA | 2,000 |
| Antimony | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00071 J | < | 0.00278 J | NA | 0.00144 J | 0.00122 J | NA | < | NA | NA | 3 |
| Arsenic | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0042 | 0.00148 | 0.00272 | NA | 0.00959 | 0.0029 | NA | 0.00147 | NA | NA | 25 |
| Barium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.1392 | 0.1574 | 0.06621 | NA | 0.9665 | 0.0511 | NA | 0.1462 | NA | NA | 1,000 |
| Beryllium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00039 J | < | < | NA | 0.00436 | < | NA | < | NA | NA | 3 |
| Cadmium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00015 J | < | 0.00007 J | NA | 0.00018 J | < | NA | < | NA | NA | 5 |
| Calcium | NA | NA | NA | NA | NA | NA | NA | 128 | 115 | 52.5 | NA | 78.6 | 45.9 | NA | 113 | NA | NA | NA | NA | NL |
| Chromium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00921 | 0.00036 J | 0.00298 | NA | 0.01076 | 0.00083 J | NA | 0.00025 J | NA | NA | 50 |
| Cobalt | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.0051 | 0.0003 J | 0.00187 | NA | 0.00785 | 0.00049 J | NA | 0.00026 J | NA | NA | NL |
| Copper | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.01241 | 0.00047 J | 0.01014 | NA | 0.0179 | 0.00306 | NA | 0.0004 J | NA | NA | 200 |
| Iron | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.39 | 1.22 | 3.22 | NA | 14.1 | 0.338 | NA | 1.14 | NA | NA | 300 |
| Lead | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.01124 | < | 0.00107 | NA | 0.03521 | < | NA | < | NA | NA | 25 |
| Magnesium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 70.3 | 29.1 | 38.1 | NA | 41.7 | 39.9 | NA | 28.1 | NA | NA | 35,000 |
| Manganese | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.3733 | 0.3227 | 0.2077 | NA | 0.4651 | 0.0453 | NA | 0.3159 | NA | NA | 300 |
| Nickel | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.01302 | 0.00087 J | 0.0057 | NA | 0.01902 | 0.00162 J | NA | 0.00069 J | NA | NA | 100 |
| Potassium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 4.12 | 2.65 | 8.73 | NA | 10.2 | 8.45 | NA | 2.62 | NA | NA | NL |
| Selenium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00253 J | < | < | NA | 0.00985 | < | NA | < | NA | NA | 10 |
| Sodium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 16.2 | 374 | 66 | NA | 140 | 37.8 | NA | 361 | NA | NA | 20,000 |
| Thallium | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | < | < | NA | 0.00034 J | < | NA | < | NA | NA | 0.5 |
| Vanadium | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.00939 | < | < | NA | 0.0116 | < | NA | < | NA | NA | NL |
| Zinc | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.05192 | < | 0.0399 | NA | 0.07061 | 0.00566 J | NA | < | NA | NA | 5,000 |
| **Perfluorinated Alkyl Acids (ng/l)** | | | | | | | | | | | | | | | | | | | | |
| Perfluoropentanoic Acid (PFPeA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.15 J | NA | 11.5 | NA | NA | NA | NA | < | NL |
| Perfluorobutanesulfonic Acid (PFBs) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | 0.606 J | NA | NA | NA | NA | < | NL |
| Perfluorohexanoic Acid (PFHxA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.36 J | NA | 15.2 | NA | NA | NA | NA | < | NL |
| Perfluoroheptanoix Acid (PFHpA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.13 J | NA | 8 | NA | NA | NA | NA | < | NL |
| Perfluorooctanoic Acid (PFOA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.59 J | NA | 10 | NA | NA | NA | NA | < | NL |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2 FTS) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | 0.524 J | NA | NA | NA | NA | < | NL |
| Perfluorononanoic Acid (PFNA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1 J | NA | 2.22 | NA | NA | NA | NA | < | NL |
| Perfluorodecanoic Acid (PFDA) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < | NA | 0.681 J | NA | NA | NA | NA | < | NL |
| PFOA/PFOS, total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.59 J | NA | 10 | NA | NA | NA | NA | < | NL |
| Perfluorinated Alkyl Acids Total | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 7.82 | NA | 58.731 | NA | NA | NA | NA | < | 70 |

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC), Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

Perfluorinated Alkyl Acids are compared to the United States Environmental Protection Agency (USEPA) Cooperative Research Center (CRC) for Contamination Assessment and Remediation of the Environment (CARE) Technical Report no. 38, Table 4 Guidance Values for total PFOA and PFOS in Drinking Water

< = Not detected

NL = Not listed

NA = Not analyzed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

µg/L = Micrograms per liter

ng/L = Nanograms per liter

Concentrations in gray exceed NYSDEC TOGS

Table 6

11075 Walden Avenue

Alden, NY

Summary of Interim Remedial Measures Excavation Confirmatory Soil Analytical Results

(Detected Analytes Only)

| Sample ID | Sidewall 1 | Sidewall 2 | Sidewall 3 | Sidewall 4 | Sidewall 5 | Sidewall 6 | Floor 1 | Floor 2 | DUP | Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | 2 | 3 | 2.5 | 1.5 | 1 | 2.5 | 10 | 4 | | |
| Sample Date | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 | |
| Volatile Organic Compounds (µg/kg) | | | | | | | | | | |
| Acetone | < | < | < | 75 | < | < | < | < | < | 500,000 |
| cis-1,2-Dichloroethene | 30 J | 130 | 1,000 | 120 | 150 | 120 | < | 82 | 3,000 | 500,000 |
| trans-1,2-Dichloroethene | < | < | 21 J | 5.8 | 11 J | < | < | < | 110 | 500,000 |
| Methyl Acetate | 120 J | < | < | 4.5 | 90 J | < | < | 42 J | 350 | NL |
| Methyl ethyl ketone (2-Butanone) | < | < | < | 14 | < | < | < | < | < | 500,000 |
| Tetrachloroethene | 300 | 20,000 | 4,800 | 11 | 2,200 | 3,300 | 170,000 | 4,300 | 490 | 150,000 |
| Trichloroethene | 76 | 360 | 480 | 0.36 | 100 | 91 | 250 J | 55 | 15 J | 200,000 |
| Vinyl Chloride | < | < | 240 | 2 | < | < | < | < | < | 13,000 |

Commercial Use SCOs = New York State Department of Environmental Conservation (NYSDEC) Part 375 Commercial Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December, 2006)

< = Not detected

NL = Not listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

ft bgs = Feet below ground surface

µg/kg = Micrograms per kilogram

Concentrations in gray exceed Commercial Use SCOs

# APPENDIX 1

## Deep Soil Boring Subsurface Logs & Well Construction Diagram

LaBella
Powered by partnership
300 Pearl Street, Suite 130

**TEST BORING LOG**
BCP
11075 Walden Avenue
Alden, New York

**BORING: SB-40**
Sheet 1 of
**JOB:** 2180605

CONTRACTOR: Nortnagle Drilling
DRILLER: Neal Short
LABELLA REPRESENTITIVE: S. Dalton START DATE: 7/8/19 END DATE:
TIME:900 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 10-11 | | 7 | 85.2 | | Strong perc odor | Auger 0-10 ft – backfill pea stone<br><br>10-24 brown red silt clay (l, stiff, m) |
| 11-12 | | 7 | 80.2 | | | |
| 12-13 | | 9 | 54.2 | | Perc odor | |
| 13-14 | | 9 | 45.2 | | | |
| 14-15 | | 12 | 11.2 | | Slight perc odor | |
| 15-16 | | 12 | 11.5 | | | |
| 16-17 | | 12 | 8.2 | | | |
| 17-18 | | 12 | 7.5 | | No odor/staining | |
| 18-19 | | 12 | 0.5 | | | |
| 19-20 | | 12 | 0 | | | |
| 20-21 | | 12 | 0 | | | |
| 21-22 | | 12 | 0 | | | |
| 22-24 | | 12 | 0 | | | |
| 23-24 | | 12 | 0 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample collected @ 15-16 ft bgs and 23-24 ft bgs

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA
11075 Walden Avenue
Alden, New York

**BORING:** SB-41
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/14/19
END DATE:
TIME: 940 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE: SAMPLE RECOVERY (Inches) | SAMPLE: PID FIELD SCREEN (Parts per million) | SAMPLE: STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 0-1 | | 10 | 0 | | no odors/ staining | 0-0.5 dark brown clay silt (mim) |
| 1-2 | | 10 | 0.2 | | | 0.5-2 brown red silt clay trace gravel (mimim) |
| 2-3 | | 12 | 0.1 | | | 2-10 brown red silt clay (l, stiff (m) |
| 3-4 | | 12 | 0 | | | |
| 4-5 | | 12 | 0 | | | |
| 5-6 | | 12 | 0 | | | |
| 6-7 | | 12 | 0 | | | |
| 7-8 | | 12 | 0 | | | 10-13 " " |
| 8-9 | | 12 | 0 | | | 13-14 brown red siltclay trace gravel (l, stiff m) |
| 9-10 | | 12 | 0 | | | |
| 10-11 | | 12 | 0 | | | 14-18 " " |
| 11-12 | | 12 | 0.1 | | | 18-20 " " |
| 12-13 | | 12 | 0.1 | | | 20-22 " " |
| 13-14 | | 12 | 0 | | | 22-26 brown red silt clay (mimim) |
| 14-15 | | 12 | 0 | | | |
| 15-16 | | 12 | 0 | | | 26-29 " " |
| 16-17 | | 12 | 0 | | | 29-31 " " |
| 17-18 | | 12 | 0 | | | 31-33 " " |
| 18-19 | | 12 | 0 | | | 33-35 " " |
| 19-20 | | 12 | 0 | | | |
| 20-21 | | 12 | 0 | | | |
| 21-22 | | 12 | 0.1 | | | |

**GROUNDWATER ENCOUNTERED**

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

**NOTES:**
Sample @ 25-26
34-35

**BORING:**

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-41
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/14/19
END DATE:
TIME: 940 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 22-23 | | 12 | 0 | | No odors/ staining | |
| 23-24 | | 12 | 0 | | | |
| 24-25 | | 12 | 0.1 | | | |
| 25-26 | | 12 | 0.1 | | | |
| 26-27 | | 12 | 0 | | | |
| 27-28 | | 12 | 0 | | | |
| 28-29 | | 12 | 0 | | | |
| 29-30 | | 12 | 0 | | | |
| 30-31 | | 12 | 0 | | | |
| 31-32 | | 12 | 0 | | | |
| 32-33 | | 12 | 0 | | | |
| 33-34 | | 12 | 0 | | | |
| 34-35 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:

BORING:

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-42
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/14/19
END DATE:
TIME: 1300 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE RECOVERY (Inches) | SAMPLE PID FIELD SCREEN (Parts per million) | SAMPLE STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 0-1 | | 12 | 0 | | no odor staining | 0-0.5 dark brown clay silt (m,m) |
| 1-2 | | 12 | 0 | | | 0.5-4 brown red silt clay (m,m,m) |
| 2-3 | | 12 | 0 | | | 4-8 brown red silt clay (cl,stiff,m) |
| 3-4 | | 12 | 0 | | | 8-9" " |
| 4-5 | | 12 | 0 | | | 9-11 brown red silt clay trace gravel (cl,stiff,m) |
| 5-6 | | 12 | 0 | | | 11-12 brown red silt clay (cl,stiff,m) |
| 6-7 | | 12 | 0 | | | 12-14 brown red silt clay (m,m,m) |
| 7-8 | | 12 | 0 | | | 14-15 brown red silt clay (m,m,w) |
| 8-9 | | 12 | 0 | | | 15-18" " |
| 9-10 | | 12 | 0 | | | 18-20" " |
| 10-11 | | 12 | 0 | | | |
| 11-12 | | 12 | 0 | | | |
| 12-13 | | 12 | 0 | | | |
| 13-14 | | 12 | 0 | | | |
| 14-15 | | 12 | 0 | | | |
| 15-16 | | 12 | 0 | | | |
| 16-17 | | 12 | 0 | | | |
| 17-18 | | 12 | 0 | | | |
| 18-19 | | 12 | 0 | | | |
| 19-20 | | 12 | 0 | | | |
| 20-21 | | 11 | 0 | | | |
| 21-22 | | 11 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:

BORING:

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-12
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/14/19
END DATE:
TIME: 1300 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE: SAMPLE RECOVERY (Inches) | SAMPLE: PID FIELD SCREEN (Parts per million) | SAMPLE: STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 22-23 | | 12 | 0 | | no odors/staining | 20-22" " |
| 23-24 | | 12 | 0 | | | |
| 24-25 | | 12 | 0 | | | 22-26" " |
| 25-26 | | 12 | 0 | | | |
| 26-27 | | 12 | 0 | | | 26-28" " |
| 27-28 | | 12 | 0 | | | |
| 28-29 | | 12 | 0 | | | 28-30" " |
| 29-30 | | 12 | 0 | | | |
| 30-31 | | 12 | 0 | | | 30-32" " |
| 31-32 | | 12 | 0 | | | |
| 32-33 | | 12 | 0 | | | 32-35" " |
| 33-34 | | 12 | 0 | | | |
| 34-35 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:

BORING:

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA
11075 Walden Avenue
Alden, New York

BORING: SB-43
Sheet 1 of
JOB: 2180605

CONTRACTOR: Nothnagle
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/15/19
TIME: 835 to
DATUM:
END DATE:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE: SAMPLE RECOVERY (Inches) | SAMPLE: PID FIELD SCREEN (Parts per million) | SAMPLE: STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 0-1 | | 10 | 0 | | no odor/ staining | 0-0.5 dark brown clay silt (CL, m) |
| 1-2 | | 10 | 0 | | | 0.5-4 brown red silt clay (CL, stiff, m) |
| 2-3 | | 10 | 0 | | | |
| 3-4 | | 10 | 0 | | | |
| 4-5 | | 12 | 0 | | | 4-6 " " |
| 5-6 | | 12 | 0 | | | |
| 6-7 | | 12 | 0 | | | 6-8 brown red silt clay trace gravel (CL, stiff, m) |
| 7-8 | | 12 | 0 | | | |
| 8-9 | | 12 | 0 | | | 8-12 " " |
| 9-10 | | 12 | 0 | | | |
| 10-11 | | 12 | 0 | | | |
| 11-12 | | 12 | 0 | | | |
| 12-13 | | 12 | 0 | | | 12-15 brown red silt clay (CL, stiff, m) |
| 13-14 | | 12 | 0 | | | |
| 14-15 | | 12 | 0 | | | 15-19 brown red silt clay (CL, m, m) |
| 15-16 | | 12 | 0 | | | |
| 16-17 | | 12 | 0 | | | 19-20 " " |
| 17-18 | | 12 | 0 | | | 20-21 brown red silt clay (CL, soft, w) |
| 18-19 | | 12 | 0 | | | |
| 19-20 | | 12 | 0 | | | 21-23 " " |
| 20-21 | | 12 | 0 | | | |
| 21-22 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 8/15/19 | | YES | MW-5 |

NOTES:

BORING: SB-43

LaBella
Powered by Partnership
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-43
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/15/19
END DATE:
TIME: 835 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE RECOVERY (Inches) | SAMPLE PID FIELD SCREEN (Parts per million) | SAMPLE STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 24-23 | | 12 | 0 | | no odors/ Staining | 23-25 brown red clay (m,m,m) |
| 23-24 | | 12 | 0 | | | |
| 24-25 | | 12 | 0 | | | 25-27 " " |
| 25-26 | | 12 | 0 | | | |
| 26-27 | | 12 | 0 | | | 27-29 " " |
| 27-28 | | 12 | 0 | | | |
| 28-29 | | 12 | 0 | | | 29-31 brown red silt clay (m,m,w) |
| 29-30 | | 12 | 0 | | | |
| 30-31 | | 12 | 0 | | | 31-33 " " |
| 31-32 | | 12 | 0 | | | |
| 32-33 | | 12 | 0 | | | 33-35 " " |
| 33-34 | | 12 | 0 | | | |
| 34-35 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample @
24-25ft 34-35

BORING: SB-43

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA
11075 Walden Avenue
Alden, New York

**BORING:** SB-44
Sheet 1 of
**JOB:** 2180605

CONTRACTOR: Nothnagle
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/16/19
END DATE:
TIME: 8:00 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE: SAMPLE RECOVERY (Inches) | SAMPLE: PID FIELD SCREEN (Parts per million) | SAMPLE: STRATA CHANGE | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| 0.5-1 | | 9 | 0 | | no odors staining | 0-0.5- concrete slab |
| 1-2 | | 9 | 0 | | | 0.5-2 gravel brown sandy silt (m,m) |
| 2-3 | | 8 | 0 | | | |
| 3-4 | | 9 | 0 | | | 2-4 brown red silt clay (m,m(m) |
| 4-5 | | 12 | 0 | | | 4-8 " " |
| 5-6 | | 12 | 0 | | | 8-11 " " |
| 6-7 | | 12 | 0 | | | 11-13" " |
| 7-8 | | 12 | 0 | | | 13-14 brown red silt clay trace gravel (m,m(m) |
| 8-9 | | 12 | 0 | | | " |
| 9-10 | | 12 | 0 | | | 14-17 " |
| 10-11 | | 12 | 0 | | | 17-20 " " |
| 11-12 | | 12 | 0 | | | 20-23" " |
| 12-13 | | 12 | 0 | | | |
| 13-14 | | 12 | 0 | | | |
| 14-15 | | 12 | 0 | | | |
| 15-16 | | 12 | 0 | | | |
| 16-17 | | 12 | 0 | | | |
| 17-18 | | 12 | 0 | | | |
| 18-19 | | 12 | 0 | | | |
| 19-20 | | 12 | 0 | | | |
| 20-21 | | 12 | 0 | | | |
| 21-22 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:

BORING: SB-44

LaBella
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-44
Sheet 1 of
**JOB:** 2180605

CONTRACTOR:
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton START DATE: 8/16/19 END DATE:
TIME: 800 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 22-23 | | 12 | 0 | | no odor/ staining | 23-26" " " |
| 23-24 | | 12 | 0 | | | 26-29" " " |
| 24-25 | | 12 | 0 | | | 29-31 brown red silt clay cm,m,w) |
| 25-26 | | 12 | 0 | | | |
| 26-27 | | 12 | 0 | | | 31-33 brown red silt clay cm,m,m) |
| 27-28 | | 12 | 0 | | | |
| 28-29 | | 12 | 0 | | | 33-35 " " " |
| 29-30 | | 12 | 0 | | | |
| 30-31 | | 12 | 0 | | | |
| 31-32 | | 12 | 0 | | | |
| 32-33 | | 12 | 0 | | | |
| 33-34 | | 12 | 0 | | | |
| 34-35 | | 12 | 0 | | | |
| [redacted] | | | | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample @ 22-23 (DUP here)
[redacted] 34-35

BORING: SB-44

LaBella
300 Pearl Street, Suite 130

# TEST BORING LOG

Phase II ESA

11075 Walden Avenue
Alden, New York

BORING: SB-45
Sheet 1 of
JOB: 2180605

CONTRACTOR: Nothnagle
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/16/19
END DATE:
TIME: 1020 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: -
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.5-1 | | 6 | 0.3 | | no odors / staining | 0-0.5- concrete |
| 1-2 | | 12 | 0.5 | | | 0.5-2 gravel, brown sandy silt (M M) |
| 2-3 | | 12 | 0 | | | 2-4 brown red silt clay (M,M,M) trace gravel |
| 3-4 | | 12 | 0 | | | |
| 4-5 | | 12 | 0 | | | 4-8 brown red silt clay (C,Stff,M) |
| 5-6 | | 12 | 0.4 | | | |
| 6-7 | | 12 | 0.2 | | | |
| 7-8 | | 12 | 0 | | | 8-12 brown red silt clay trace gravel (C,Stff,M) |
| 8-9 | | 12 | 0 | | | |
| 9-10 | | 12 | 0 | | | 12-15 brown red silt clay (C,Stff,M) |
| 10-11 | | 12 | 0 | | | |
| 11-12 | | 12 | 0 | | | 15-18" " |
| 12-13 | | 12 | 0 | | | 18-21" " |
| 13-14 | | 12 | 0 | | | |
| 14-15 | | 12 | 0 | | | |
| 15-16 | | 12 | 0 | | | |
| 16-17 | | 12 | 0 | | | |
| 17-18 | | 12 | 0 | | | |
| 18-19 | | 10 | 0 | | | |
| 19-20 | | 10 | 0 | | | |
| 20-21 | | 10 | 0 | | | |
| 21-22 | | 12 | 0 | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:

BORING: SB-45

LaBella
Professional Engineering Partnership
300 Pearl Street, Suite 130

**TEST BORING LOG**
Phase II ESA

11075 Walden Avenue
Alden, New York

**BORING:** SB-45
Sheet 1 of
**JOB:** 2180605

CONTRACTOR: Nothnagle
DRILLER:
LABELLA REPRESENTITIVE: S. Dalton
START DATE: 8/16/19
END DATE:
TIME: 1020 to
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD:
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 22-23 | | 12 | 0 | | no odors/ staining | 21-23" |
| 23-24 | | 12 | 0 | | | 23-27 brown red silt clay (M,m,W) |
| 24-25 | | 12 | 0 | | | |
| 25-26 | | 12 | 0 | | | |
| 26-27 | | 12 | 0 | | | 27-29" |
| 27-28 | | 12 | 0 | | | 29-31" |
| 28-29 | | 12 | 0 | | | 31-33" |
| 29-30 | | 12 | 0 | | | 33-35" |
| 30-31 | | 12 | 0 | | | |
| 31-32 | | 12 | 0 | | | |
| 32-33 | | 12 | 0 | | | |
| 33-34 | | 12 | 0 | | | |
| 34-35 | | 12 | 0 | | | |

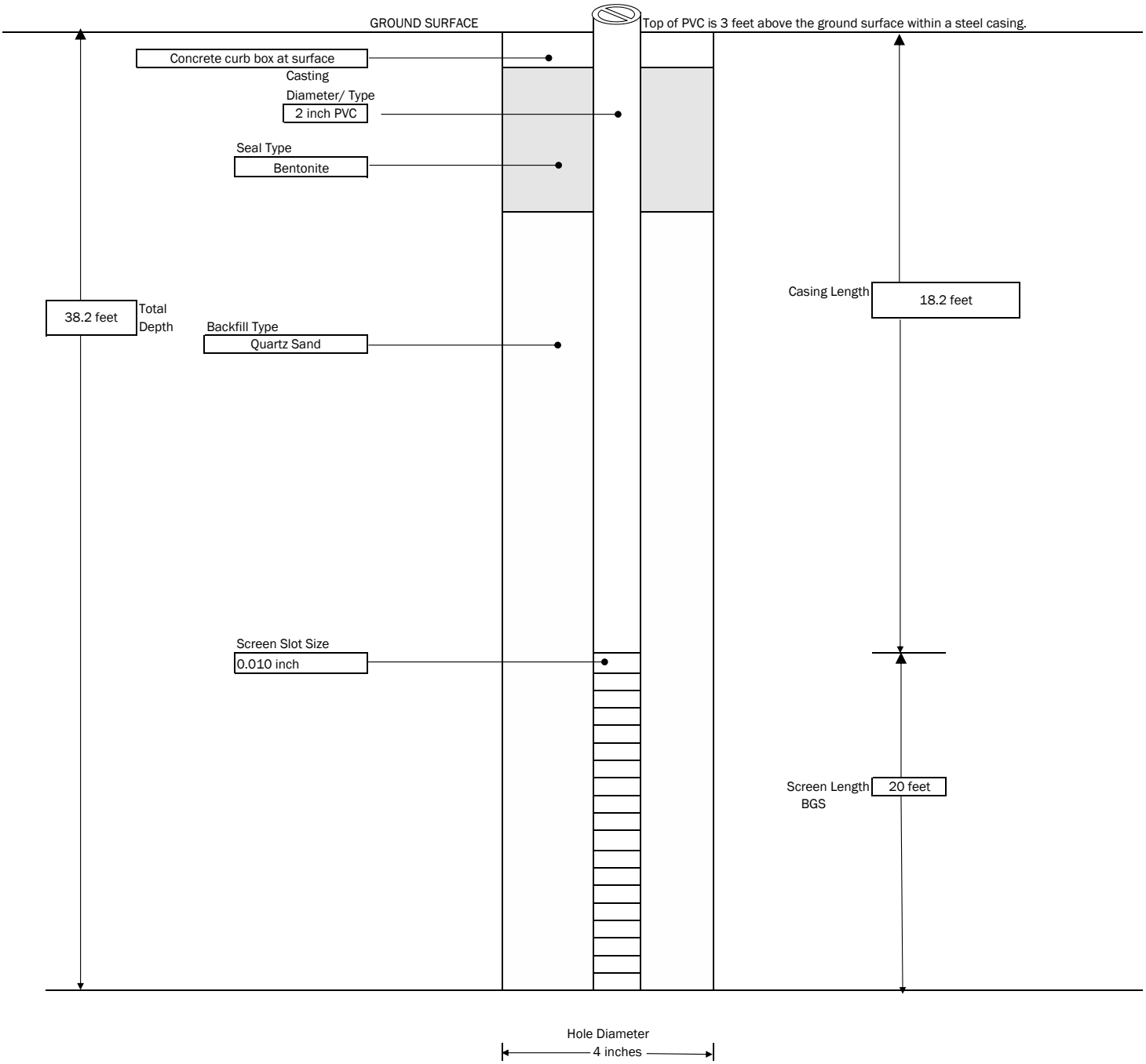
GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample @ 21-22
34-35

BORING: SB-45

| | | |
|---|---|---|
| LaBella Powered by partnership.<br>300 PEARL STREET, BUFFALO, NEW YORK<br>ENVIRONMENTAL ENGINEERING CONSULTANTS | **PROJECT**<br>Remedial Investigation 11075 Walden Ave., Alden, New York | **MONITORING WELL :** MW-15<br>**SHEET** 1 OF 1<br>**JOB # 2180605** |
| CONTRACTOR: LaBella Environmental LLC<br>DRILLER:<br>LABELLA REPRESENTATIVE: S. Dalton | BORING LOCATION: SB-43<br>GROUND SURFACE ELEVATION: NA DATUM: NA<br>START DATE: 8/15/19 END DATE: 8/15/19 | TYPE OF DRILL RIG:<br>AUGER SIZE AND TYPE: NA<br>OVERBURDEN SAMPLING METHOD: Macrocore |




GENERAL NOTES:

1) NOT TO SCALE
2) DEPTHS ARE APPROXIMATE
3) BGS = below ground surface
4) NA = not applicable

# APPENDIX 2

## Site Health & Safety Plan

# Site Health and Safety Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared For:

Mr. Jim Doro
Walden Realty Limited Partnership/Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

April 2020

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

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Tables


Table 1 Exposure Limits and Recognition Qualities

# SITE HEALTH AND SAFETY PLAN

| | |
|---|---|
| **Project Title:** | 11075 Walden Avenue - Brownfield Cleanup Program |
| **Project Number:** | 2180605 |
| **Project Location (Site):** | 11075 Walden Avenue, Alden, New York 14004 |
| **Environmental Director:** | Rob Napieralski |
| **Project Manager:** | Adam Zebrowski |
| **Plan Review Date:** | _____ |
| **Plan Approval Date:** | _____ |
| **Plan Approved By:** | _____ Steven Szymanski |
| **Site Safety Supervisor:** | Chris Kibler |
| **Site Contact:** | Jim Doro, Doritex Corp. |
| **Safety Director:** | Steven Szymanski |
| **Proposed Date(s) of Field Activities:** | To Be Determined |
| **Site Conditions:** | 2.6± acres; Current Site features include green space to the north, west and south of the Site Building and asphalt-paved parking areas to the east and south of the Site Building. |
| **Site Environmental Information Provided By:** | ❑ Limited Environmental Due Diligence: Transaction Screen report, 11075 Walden Avenue, Alden, New York, prepared by Lender Consulting Services, Inc. dated May 4, 2017<br>❑ Supplemental Phase II Environmental Site Assessment report, 11075 Walden Avenue, Alden, New York, prepared by LaBella Associates, D.P.C. dated December 4, 2017<br>❑ On-going Remedial and Interim Remedial Measures Investigations, 11075 Walden Avenue, Alden, New York, prepared by LaBella Associates, D.P.C., dated 2019 |
| **Air Monitoring Provided By:** | LaBella Associates, D.P.C. |
| **Site Control Provided By:** | Redox Tech, LLC |

# EMERGENCY CONTACTS

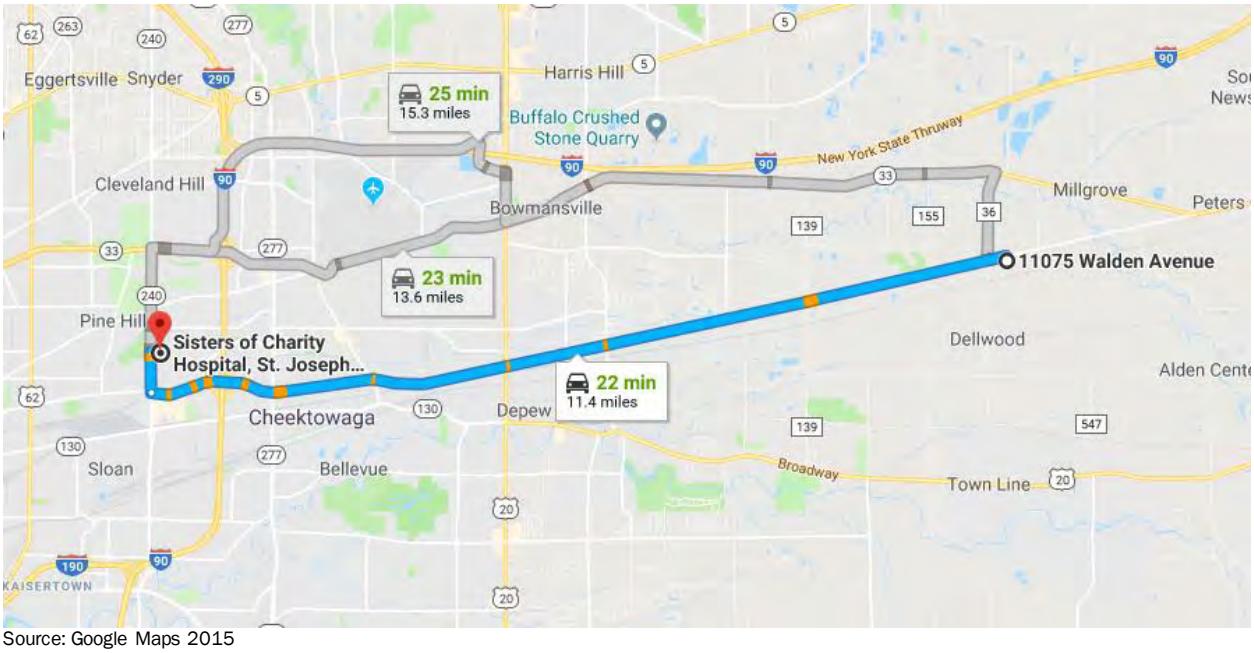
| | Name | Phone Number |
|---|---|---|
| Ambulance: | As Per Emergency Service | 911 |
| Hospital Emergency: | St. Joseph's Hospital | 716-891-2606 |
| Poison Control Center: | National Poison Control Center (serving Buffalo Area) | 800-222-1222 |
| Police (local, state): | Erie County Sheriff's Department | 716-937-7675 |
| Fire Department: | Alden Village Fire Department | 716-937-9319 |
| Site Contact: | Jim Doro, Doritex Corp. | 716-684-6600 |
| Agency Contact: | NYSDEC – Anthony Lopes<br>NYSDOH – To Be Determined | 716-851-7220<br>To Be Determined |
| Environmental Director: | Rob Napieralski | Direct: 716-551-6283 |
| Project Manager: | Adam Zebrowski | Direct: 716-840-2548 |
| Site Safety Supervisor: | To Be Determined | To Be Determined |
| Safety Director | Steven Szymanski (LaBella) | Direct: 585-295-6633 |

# MAP AND DIRECTIONS TO THE MEDICAL FACILITY - ST. JOSEPH'S HOSPITAL

11075 Walden Ave

Alden, NY 14004

1. Head west on Walden Ave toward Town Line Rd
   Pass by AutoZone (on the left in 6.4 mi)
2. Turn right onto Harlem Rd




Source: Google Maps 2015

## 1.0 INTRODUCTION

The purpose of this Health and Safety Plan (HASP) is to provide guidelines for responding to potential health and safety issues that may be encountered during the Supplemental Interim Remedial Measure (IRM) at 11075 Walden Avenue in the Town of Alden, Erie County, New York (Site). This HASP only reflects the policies of LaBella Associates, D.P.C. The requirements of this HASP are applicable to all approved LaBella personnel at the work Site. This document's project specifications, and the Community Air Monitoring Plan (CAMP), are to be consulted for guidance in preventing and quickly abating any threat to human safety or the environment. The provisions of the HASP do not replace or supersede any regulatory requirements of the United States Environmental Protection Agency, New York State Department of Environmental Conservation, Occupational Safety and Health Administration or other regulatory bodies.

## 2.0 RESPONSIBILITIES

This HASP presents guidelines to minimize the risk of injury to project personnel, and to provide rapid response in the event of injury. The HASP is applicable only to activities of approved LaBella personnel and their authorized visitors. The Project Manager shall implement the provisions of this HASP for the duration of the project. It is the responsibility of LaBella employees to follow the requirements of this HASP, and all applicable company safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this HASP are limited to the following:

- Management of environmental investigation and remediation activities
- Environmental Monitoring
- Collection of samples
- Management of soil boring injection wastes (if applicable)

## 4.0 WORK AREA ACCESS AND SITE CONTROL

The contractor(s) will have primary responsibility for work area access and Site control.

## 5.0 POTENTIAL HEALTH AND SAFETY HAZARDS

This section lists some potential health and safety hazards that project personnel may encounter at the project Site and some actions to be implemented by approved personnel to control and reduce the associated risk to health and safety. This is not intended to be a complete listing of any and all potential health and safety hazards. New or different hazards may be encountered as Site environmental and Site work conditions change. The suggested actions to be taken under this plan are not to be substituted for good judgment on the part of project personnel. At all times, the Site Safety Officer has responsibility for Site safety and his instructions must be followed.

## 5.1 *Hazards Due to Heavy Machinery*

**Potential Hazard:**

Heavy machinery including drilling rigs, trucks, trailers, etc. may be in operation at the Site. The presence of such equipment presents the danger of being struck or crushed and can also create noise pollution. Use caution when working near heavy machinery.

**Protective Action:**

Make sure that operators are aware of your activities, and heed operator's instructions and warnings. Wear bright colored clothing and walk safe distances from heavy equipment. A hard hat, safety glasses, steel toe shoes, and ear protection are required.

## 5.2 *Excavation Hazards*

**Potential Hazard:**

Excavations and trenches can collapse, causing injury or death. Edges of excavations can be unstable and collapse. Toxic and asphyxiant gases can accumulate in confined spaces and trenches. Excavations that require working within the excavation will require air monitoring in the breathing zone (refer to Section 9.0).

Excavations left open create a fall hazard which can cause injury or death.

**Protective Action:**

Personnel must receive approval from the Project Manager to enter an excavation for any reason. Subsequently, approved personnel are to receive authorization for entry from the Site Safety Officer. Approved personnel are not to enter excavations over 4 feet in depth unless excavations are adequately sloped. Additional personal protective equipment may be required based on the air monitoring.

Excavations shall be backfilled immediately following completion. If this is not possible, fencing and/or barriers accompanied by "no trespassing" signs should be placed around all excavations when left open for any period of time when work is not being conducted.

## 5.3 *Cuts, Punctures and Other Injuries*

**Potential Hazard:**

In any excavation and construction work Site there is the potential for the presence of sharp or jagged edges on rock, metal materials, and other sharp objects. Serious cuts and punctures can result in loss of blood and infection.

**Protective Action:**

The Project Manager is responsible for making First Aid supplies available at the work Site to treat minor injuries. The Site Safety Officer is responsible for arranging the transportation of authorized on-site personnel to medical facilities when First Aid treatment in not sufficient. Do not move seriously injured workers. All injuries requiring treatment are to be reported to the Project Manager. Serious injuries are to be reported immediately to the Site Safety Officer.

## 5.4 *Injury Due to Exposure of Chemical Hazards*

**Potential Hazards:**

Contaminants identified in testing locations at the Site include various chlorinated solvent volatile organic compounds (VOCs). Volatile organic vapors, chlorinated solvents or other chemicals may be encountered during subsurface activities at the project work Site. Inhalation of high concentrations of volatile organic vapors can cause headache, stupor, drowsiness, confusion and other health effects. Skin contact can cause irritation, chemical burn, or dermatitis. In addition, as subsurface activities will take place within the Site Building, there is the potential for carbon monoxide build-up to occur as a result of machinery operation. Inhalation of high concentrations of carbon monoxide can cause headache, stupor, drowsiness, confusion and other health effects including death.

**Protective Action:**

The use of properly selected Personal Protective Equipment (PPE), adherence to standard health and safety pre-cautions (e.g., no smoking or eating within work area or prior to personal decontamination), and implementation of routine dust suppression methods will effectively minimize exposure to the known contaminants on-site.

The presence of organic vapors may be detected by their odor and by monitoring instrumentation. Approved employees will not work in environments where hazardous concentrations of organic vapors are present. Air monitoring (refer to Section 9.0) of the work area will be performed at least every 60 minutes or more often using a Photoionization Detector (PID). Personnel are to leave the work area whenever PID measurements of ambient air exceed 25 parts per million (ppm) consistently for a 5 minute period. In the event that sustained total volatile organic compound (VOC) readings of 25 ppm are encountered personnel should upgrade personal protective equipment to Level C (refer to Section 8.0) and an Exclusion Zone should be established around the work area to limit and monitor access to this area (refer to Section 6.0).

### 5.5 *Injuries due to extreme hot or cold weather conditions*

**Potential Hazards:**

Extreme hot weather conditions can cause heat exhaustion, heat stress and heat stroke or extreme cold weather conditions can cause hypothermia.

**Protective Action:**

Precaution measures should be taken such as dress appropriately for the weather conditions and drink plenty of fluid. If personnel should suffer from any of the above conditions, proper techniques should be taken to cool down or heat up the body and taken to the nearest hospital if needed.

### 5.6 *Injuries due to Saw Cutting of Concrete Surfaces*

**Potential Hazards:**

As saw cutting of the interior concrete slab may be required, there is the potential for worker exposure to silica dust.

**Protective Action:**

It is recommended that approved personnel conducting saw cutting activities wear at a minimum a ½ face respirator with organic vapor cartridges. On-site personnel not associated with saw cutting activities should remain a safe distance and (if applicable) upwind from the work area during such to avoid exposure to potential silica dust.

## 6.0 WORK ZONES

In the event that conditions warrant establishing various work zones (i.e., based on hazards - Section 5.0), the following work zones should be established:

**Exclusion Zone (EZ):**

The EZ will be established in the immediate vicinity and adjacent downwind direction of Site activities that elevate breathing zone VOC concentrations to unacceptable levels based on field screening. These Site activities include contaminated soil excavation and soil sampling activities. If access to the Site is required to accommodate non-project related personnel then an EZ will be established by constructing a barrier around the work area (yellow caution tape and/or construction fencing). The EZ barrier shall encompass the work area and any equipment staging/soil staging areas necessary to perform the associated work. The contractor(s) will be responsible for establishing the EZ and limiting access to approved personnel. Depending on the condition for establishing the EZ, access to the EZ may require adequate PPE (e.g., Level C).

**Contaminant Reduction Zone (CRZ):**

The CRZ will be the area where personnel entering the EZ will don proper PPE prior to entering the EZ and the area where PPE may be removed. The CRZ will also be the area where decontamination of equipment and personnel will be conducted as necessary.

## 7.0 DECONTAMINATION PROCEDURES

Upon leaving the work area, approved personnel shall decontaminate footwear as needed. Under normal work conditions, detailed personal decontamination procedures will not be necessary. Work clothing may become contaminated in the event of an unexpected splash or spill or contact with a contaminated substance. Minor splashes on clothing and footwear can be rinsed with clean water. Heavily contaminated clothing should be removed if it cannot be rinsed with water. Personnel assigned to this project should be prepared with a change of clothing whenever on Site.

Personnel will use the contractor's disposal container for disposal of PPE.

## 8.0 PERSONAL PROTECTIVE EQUIPMENT

Generally, Site conditions at this work Site require level of protection of Level D or modified Level D; however, air monitoring will be conducted to determine if up-grading to Level C PPE is required (refer to Section 9.0). Descriptions of the typical safety equipment associated with Level D and Level C are provided below:

**Level D:**

Hard hat, safety glasses, rubber nitrile sampling gloves, steel toe construction grade boots, etc.

**Level C:**

Level D PPE and full or ½-face respirator and tyvek suit (if necessary). [*Note: Organic vapor cartridges are to be changed after each 8-hours of use or more frequently.*]

## 9.0 AIR MONITORING

According to 29 CFR 1910.120(h), air monitoring shall be used to identify and quantify airborne levels of hazardous substances and health hazards in order to determine the appropriate level of employee protection required for personnel working onsite. Air monitoring will consist at a minimum of the procedure listed below. Air monitoring instruments will be calibrated and maintained in accordance with the manufacturer's specifications.

The Air Monitor will utilize a PID to screen the ambient air in the work areas (drilling, excavation, soil staging, and soil grading areas) for total VOCs, DustTrak tm Model 8520 aerosol monitors or equivalent for measuring particulates and a carbon monoxide detector for total carbon monoxide concentrations. Work area ambient air will generally be monitored in the work area and downwind of the work area. Air monitoring of the work areas and downwind of the work areas will be performed at least every 60 minutes using a PID, the DustTrak meter and a carbon monoxide detector.

If sustained PID readings of greater than 25 ppm are recorded in the breathing zone, either personnel are to leave the work area until satisfactory readings are obtained or approved personnel may re-enter the work areas wearing at a minimum a ½ face respirator with organic vapor cartridges for an 8-hour duration (i.e., upgrade to Level C PPE). Organic vapor cartridges are to be changed after each 8-hour use or more frequently, if necessary. If PID readings are sustained, in the work area, at levels above 50 ppm for a 5 minute average, work will be stopped immediately until safe levels of VOCs are encountered or additional PPE will be required (i.e., Level B).

## 10.0 EMERGENCY ACTION PLAN

In the event of an emergency, employees are to turn off and shut down all powered equipment and leave the work areas immediately. Employees are to walk or drive out of the Site as quickly as possible, wait at the assigned "safe area" and follow the instructions of the Site Safety Officer.

Employees are not authorized or trained to provide rescue and medical efforts. Rescue and medical efforts will be provided by local authorities.

## 11.0 MEDICAL SURVEILLANCE

Medical surveillance will be provided to all employees who are injured due to overexposure from an emergency incident involving hazardous substances at this Site.

## 12.0 EMPLOYEE TRAINING

Personnel who are not familiar with this Site plan will receive training on its entire content and organization before working at the Site.

Individuals involved with the remedial investigation must be 40-hour OSHA HAZWOPER trained with current 8-hour refresher certification.

# Table 1
## Exposure Limits and Recognition Qualities

| Compound | PEL-TWA (ppm)(b)(d) | TLV-TWA (ppm)(c)(d) | STEL (ppm)(b) | LEL (%)(e) | UEL (%)(f) | IDLH (ppm)(g)(d) | Odor | Odor Threshold (ppm) | Ionization Potential |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 750 | 500 | NA | 2.15 | 13.2 | 20,000 | Sweet | 4.58 | 9.69 |
| Anthracene | .2 | .2 | NA | NA | NA | NA | Faint aromatic | NA | NA |
| Benzene | 1 | 0.5 | 5 | 1.3 | 7.9 | 3000 | Pleasant | 8.65 | 9.24 |
| Benzo (a) pyrene (coal tar pitch volatiles) | 0.2 | 0.1 | NA | NA | NA | 700 | NA | NA | NA |
| Benzo (a)anthracene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (b) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (g,h,i)perylene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (k) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA | NA | NA | NA | NA | 10.88 |
| Carbon Disulfide | 20 | 1 | NA | 1.3 | 50 | 500 | Odorless or strong garlic type | .096 | 10.07 |
| Chlorobenzene | 75 | 10 | NA | 1.3 | 9.6 | 2,400 | Faint almond | 0.741 | 9.07 |
| Chloroform | 50 | 2 | NA | NA | NA | 1,000 | ethereal odor | 11.7 | 11.42 |
| Chrysene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethylene | 200 | 200 | NA | 9.7 | 12.8 | 400 | Acrid | NA | 9.65 |
| 1,2-Dichlorobenzene | 50 | 25 | NA | 2.2 | 9.2 | | Pleasant | | 9.07 |
| Ethyl Alcohol | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | 100 | 100 | NA | 1.0 | 6.7 | 2,000 | Ether | 2.3 | 8.76 |
| Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropyl Alcohol | 400 | 200 | 500 | 2.0 | 12.7 | 2,000 | Rubbing alcohol | 3 | 10.10 |
| Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 500 | 50 | NA | 12 | 23 | 5,000 | Chloroform-like | 10.2 | 11.35 |
| Naphthalene | 10, Skin | 10 | NA | 0.9 | 5.9 | 250 | Moth Balls | 0.3 | 8.12 |
| n-propylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phosphoric Acid | 1 | 1 | 3 | NA | NA | 10,000 | NA | NA | NA |
| Polychlorinated Biphenyl | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Potassium Hydroxide | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| p-Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethane | NA | NA | NA | NA | NA | NA | Sweet | NA | NA |
| Toluene | 100 | 100 | NA | 0.9 | 9.5 | 2,000 | Sweet | 2.1 | 8.82 |
| Trichloroethylene | 100 | 50 | NA | 8 | 12.5 | 1,000 | Chloroform | 1.36 | 9.45 |
| 1,2,4-Trimethylbenzene | NA | 25 | NA | 0.9 | 6.4 | NA | Distinct | 2.4 | NA |
| 1,3,5-Trimethylbenzene | NA | 25 | NA | NA | NA | NA | Distinct | 2.4 | NA |
| Vinyl Chloride | 1 | 1 | NA | NA | NA | NA | NA | NA | NA |
| Xylenes (o,m,p) | 100 | 100 | NA | 1 | 7 | 1,000 | Sweet | 1.1 | 8.56 |
| ***Metals*** | | | | | | | | | |
| Arsenic | 0.01 | 0.2 | NA | NA | NA | 100, Ca | NA | NA | NA |
| Cadmium | 0.2 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | 1 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | 0.05 | 0.15 | NA | NA | NA | 700 | NA | NA | NA |
| Mercury | 0.05 | 0.05 | NA | NA | NA | 28 | NA | NA | NA |
| Selenium | 0.2 | 0.02 | NA | NA | NA | Unknown | NA | NA | NA |

(a) Skin = Skin Absorption
(b) OSHA-PEL Permissible Exposure Limit (flame weighted average, 8-hour): NIOSH Guide, June 1990
(c) ACGIH – 8 hour time weighted average from Threshold Limit Values and Biological Exposure Indices for 2003.
(d) Metal compounds in mg/m3
(e) Lower Exposure Limit (%)
(f) Upper Exposure Limit (%)
(g) Immediately Dangerous to Life or Health Level: NIOSH Guide, June 1990.

**Notes:**
1. All values are given in parts per million (PPM) unless otherwise indicated.
2. Ca = Possible Human Carcinogen, no IDLH information.

# APPENDIX 3

## Site Community Air Monitoring Plan

# Site Community Air Monitoring Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared for:

Mr. Jim Doro
Walden Realty Limited Partnership/Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

April 2020

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6.0 PARTICULATE MONITORING....2

List of Attachments

Attachment 1: NYSDOH Community Air Monitoring Plan
Attachment 2: NYSDEC Fugitive Dust and Particulate Monitoring Plan

## 1.0 INTRODUCTION

The purpose of this Site Community Air Monitoring Plan (CAMP) is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of remedial work activities at the Site located at 11075 Walden Avenue in the Town of Alden, Erie County, New York. This Site-Specific Air Monitoring Program (SSAMP) is not intended for use in establishing action levels for worker respiratory protection.

This SSAMP requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust), at the downwind perimeter of each designated work area when certain activities are in progress at the Site. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the SSAMP will help to confirm that work activities have not spread contamination off-site through the air.

## 2.0 RESPONSIBILITIES

This SSAMP is applicable to the remedial activities of contractors, engineers, consultants, facility employees, and their authorized visitors. The Project Manager shall implement the provisions of this SSAMP for the duration of the project. It is the responsibility of all remedial workers to follow the requirements of this SSAMP, and all applicable air safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this SSAMP include the following:

- Management of environmental investigation and remediation activities
- Environmental monitoring
- Collection of samples
- Management of soil boring injection wastes (if applicable)

## 4.0 WORK AREA ACCESS AND SITE CONTROLS

The contractor(s) will have primary responsibility for work area access and site control.

## 5.0 VOLATILE ORGANIC COMPOUND MONITORING

Monitoring for VOCs will be implemented in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan, which is included in Attachment 1.

## 6.0 PARTICULATE MONITORING

Monitoring for dust will be implemented in accordance with the NYSDOH Generic Community Air Monitoring Plan (Attachment 1) as well as New York State Department of Environmental Conservation's Fugitive Dust and Particulate Monitoring (Attachment 2).

J:\WALDEN REALTY\2180605 - 11075 WALDEN AVE BCP\REPORTS\IRMWP\CAMP\SITE SPECIFIC CAMP_11075 WALDEN AVE..DOCX

# ATTACHMENT 1

## NYSDOH Community Air Monitoring Plan

**Attachment 1**
**New York State Department of Health**
**Generic Community Air Monitoring Plan**

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/$m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/$m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/$m^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/$m^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

# ATTACHMENT 2

## NYSDEC Fugitive Dust and Particulate Monitoring Plan

## Attachment 2
## Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50$^{o}$ C (14 to 122$^{o}$ F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

# APPENDIX 4

Anaerobic Biochem Plus Product Information & Safety Data Sheets

REDOX TECH, LLC

*"Providing Innovative In Situ Soil and Groundwater Treatment"*

# *ABC+ PRODUCT ANNOUNCEMENT*

Redox Tech, Inc is pleased to offer an enhanced version of our industry proven Anaerobic Biochem (ABC®) formula, promoting both anaerobic biodegradation and reductive dechlorination of halogenated solvents in groundwater. This product, Anaerobic Biochem Plus (ABC+), is a mixture of our ABC® formula and Zero Valent Iron (ZVI). Formulated and mixed on a site-by-site basis, up to fifty percent (50%) by weight of ZVI can be added. ZVI has been proven and widely accepted as an effective in situ remediation technology of chlorinated solvents such as TCA, PCE, TCE, and daughter products. The degradation process using ZVI is an abiotic reductive dechlorination process occurring on the surface of the granular iron, with the iron acting as an electron donor.

The addition of ZVI to the ABC® mixture provides a number of advantages for enhanced reductive dechlorination (ERD). The ZVI will provide an immediate reduction. The ABC® will provide short-term and long-term nutrients to anaerobic growth, which also assists to create a reducing environment. ABC® contains soluble lactic acid and a phosphate buffer that provides phosphates, which are a micronutrient for bioremediation, and maintains the pH in a range that is best suited for microbial growth. In addition, the corrosion of iron metal yields ferrous iron and hydrogen, both of which are possible reducing agents. The hydrogen gas produced is also an excellent energy source for a wide variety of anaerobic bacteria.

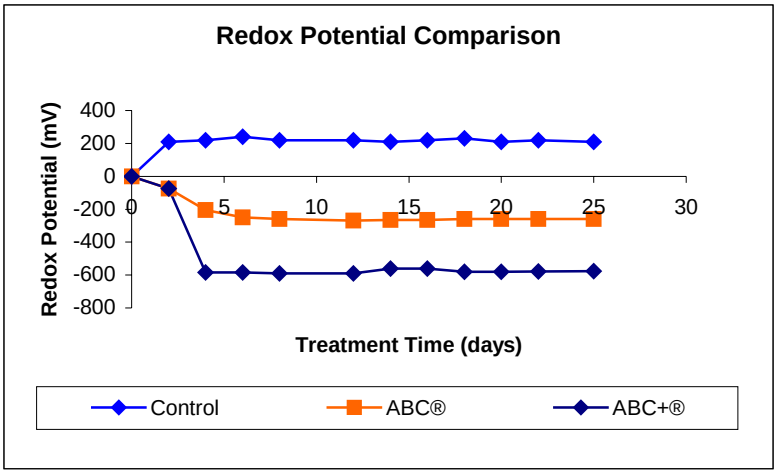
The ABC® and ZVI are mixed with potable water and emplaced in the subsurface simultaneously. The dilution factor (i.e. water content) can be adjusted to achieve optimal dispersion and distribution based on site-specific parameters such as well spacing, permeability of the formation, and contaminant concentrations. The solution can be emplaced by a variety of techniques, including injection through wells or drill rods (for permeable geologic environments such as sands and fractured rock), hydraulic fracturing (for lower permeable environments such as silt and clay), and through soil blending (for all unconsolidated shallow depth applications less than 20 ft bgs). All of these techniques are part of Redox Tech's service offerings.

Benefits of ABC+ include:

- The presence of ZVI allows for the rapid and complete dechlorination of target compounds. Degradation rates using ZVI are several orders of magnitude greater than under natural conditions. As a consequence, the process does not result in the formation of daughter products other than ethane, ethane, and methane.
- ABC® will last up to 12 months in the subsurface environment due to slow releasing compounds, allowing for long-term anaerobic biodegradation
- By creating a reducing environment, ABC+ has the ability to provide long term immobilization of heavy metals (e.g. Ni, Zn, Hg, As)
- Does not require direct contact to act on target constituents.
-

[1]ABC® is protected by US Patents 6,001,252 and 6,472,198. Trademark pending

- Does not divert groundwater flow. ABC is typically mixed at a 15% by weight solution with water. The viscosity of the solution is similar to sugar water and therefore does not measurably influence groundwater flow paths. Due to the relatively low volume of ZVI used, it does not measurably lower the bulk permeability of the formation.
- Ease of handling. The ABC$^+$ product is comprised of food grade compounds and therefore does not require high-levels of personal protective equipment (PPE) or special training to handle. The ZVI is a stable compound that also requires low-level PPE protection.
- Patent protection: Redox Tech is licensed under Enviromental Technologies, Inc. (an Adventus Company) who is the current holder of patents pertaining to remediation using ZVI. Therefore, Redox Tech is able to market, sell, and emplace our ABC$^+$ product. There is no patent infringement risk to the client in selecting the ABC$^+$ approach.
- Price advantage. The cost of the ABC$^+$ formula is an extremely competitive approach in relation to other ERD products on the market.
- ABC$^+$ produces a significantly lower redox potential of approximately –600 mV




Let Redox Tech help formulate a remedial program for your site today. For more information visit our web page at www.redox-tech.com or contact:

**John Haselow**
**Redox Tech, LLC**
**200 Quade Drive**
**Cary, NC 27513**
**Phone: 919-678-0140**
**FAX: 919-678-0150**
**jhaselow@redox-tech.com**

# SAFETY DATA SHEET
## Anaerobic BioChem (ABC)

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** **Anaerobic BioChem**
**GENERAL USE:** **Bioremediation of halogenated organics and metals**

**MANUFACTURER:**

**Redox Tech, LLC**
200 Quade Drive
Cary, NC 27513
919-678-0140

**EMERGENCY TELEPHONE:**

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is generally recognized as safe. May cause irritation exposure to eyes. Long term contact to skin may cause some drying and minor irritation.

## 3. COMPOSITION INFORMATION ON INGREDIENTS

Proprietary mixture of fatty acids, glycerol, lactates and dipotassium phosphate.

## 4. FIRST AID MEASURES

**EYES:** Immediately flush with water for up to 15 minutes. If irritation persists, seek medical attention.

**SKIN:** Rinse with water. Irritation is unlikely, but if irritation occurs or persists, seek medical attention.

**INGESTION:** Generally safe to ingest but not recommended.

**INHALATION:** No first aid required.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Deluge with water

**FIRE/EXPLOSION HAZARDS:** Product is combustible only at temperatures above 600C

**FIRE FIGHTING PROCEDURES:** Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus. Deluging with water is the best method to control combustion of the product.

**FLAMMABILITY LIMITS:** non-combustible

**SENSITIVITY TO IMPACT:** non-sensitive

**SENSITIVITY TO STATIC DISCHARGE:** non-senstive

## 6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water. Discharge of product to surface water could result in depressed dissolved oxygen levels and subsequent biological impacts.

## 7. HANDLING AND STORAGE

**HANDLING:** Protective gloves and safety glasses are recommended.

**STORAGE:** Keep dry. Use first in, first out storage system. Keep container tightly closed when not in use. Avoid contamination of opened product. Avoid contact with reducing agents.

## 8. EXPOSURE CONTROLS – PERSONAL PROTECTION

**EXPOSURE LIMITS**

| Chemical Name | ACGIH | OSHA | Supplier |
|---|---|---|---|
| **ABC** | **NA** | **NA** | **NA** |

**ENGINEERING CONTROLS:** None are required

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES and FACE:** Safety glasses recommended
**RESPIRATOR:** none necessary
**PROTECTIVE CLOTHING:** None necessary
**GLOVES:** rubber, latex or neoprene recommended but not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Odor: | none to mild pleasant organic odor |
| Appearance: | clear to light amber |
| Auto-ignition Temperature | Non-combustible |
| Boiling Point | >600 C |
| Melting Point | NA |
| Density | 1.15 gram/cc |
| Solubility | infinite |
| pH | 7-9 |

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Do not contact with strong oxidizers
**STABILITY:** product is stable
**POLYMERIZATION:** will not occur
**INCOMPATIBLE MATERIALS:** strong oxidizers
**HAZARDOUS DECOMPOSITION PRODUCTS:**

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**
A: General Product Information
Acute exposure may cause mild skin and eye irritation.
B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo
TDLo (Oral-Man) none

**Carcinogenicity**
A: General Product Information
No information available.
B: Component Carcinogenicity
Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Epidemiology**
No information available.

**Neurotoxicity**
No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Discharge to water may cause depressed dissolved oxygen and subsequent ecological stresses
**Environmental Fate**
No potential for food chain concentration

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

# 14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subjectto change with changes in package size. Consult shipperrequirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

**US DOT Information**
Shipping Name: Not Regulated
Hazard Class: Not Classified
UN/NA #: Not Classified
Packing Group:None
Required Label(s):None

**50th Edition International Air Transport Association (IATA):**
Not hazardous and not regulated

**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

Material is not regulated under IMDG

# 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III**

SECTION 311 No Hazard for Immediate health Hazard
SECTION 312 No Threshold Quanitity
SECTION 313 Not listed

**CERCLA** NOT REGULATED UNDER CERCLA

**TSCA** NOT REGULATED UNDER TSCA

**CANADA (WHIMS):** NOT REGULATED

# 16. OTHER INFORMATION

HMIS:

| | |
|---|---|
| Health | 1 |
| Flammability | 0 |
| Physical Hazard | 0 |
| Personal Protection | E |

E: Safety Glasses, gloves

# SAFETY DATA SHEET
## Zero Valent Iron (ZVI)

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** **ZVI**
**GENERAL USE:** Chemical reduction of halogenated organics and-or metals

**MANUFACTURER:**

**Redox Tech, LLC**
200 Quade Drive
Cary, NC 27513
919-678-0140

**EMERGENCY TELEPHONE:**

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

## Section 2. HAZARDS IDENTIFICATION

Physical state : Solid (Powder)
Emergency Overview : Potential dust explosion. Avoid contact with oxidizing agents. USE WITH CARE. Follow good industrial hygiene practice

Routes of entry : Demal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects
- Eyes : May cause eye irritation.
- Skin : No known significant effects or critical hazards
- Inhalation : May cause respiratory tract irritation.
- Ingestion : No known significant effects or critical hazards.

Potential Chronic Effects: : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU AND ACGIH.
Mutagenic effects: Not available
: Teratogenic effects: Not Available
Medical conditions : Repeated exposure of the eyes to a low level of dust can produce eye irritation

## Section 3. COMPOSITION INFORMATION ON INGREDIENTS

Greater than 98% Iron CAS# 7439-89-6
Contains carbon, sulfur and other metal impurities.

## Section 4. FIRST AID MEASURES

Eye contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation occurs
Skin contact : Wash with soap and water. Get medical attention if irritation occurs.
Inhalation : Move person to fresh air. Get medical attention if breathing difficulty persists

| | | |
|---|---|---|
| Ingestion | : | Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear. |
| Notes to physician: | | No specific antidote. Material is used as an iron supplement in food and vitamins. Treatment would be the same as for iron overdose. |

## Section 5. FIRE FIGHTING MEASURES

| | |
|---|---|
| Flammability of the product | Generally non-flammable but susceptible to dust explosion. |
| Fire-fighting media | Use a fog nozzle to spray water. |
| Special protective Equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment. |
| Special remarks on fire | As with any finely granulated product, a risk of dust explosion is present should the material be dispersed in air and exposed to a source of ignition. Fine powder can form flammable and explosive mixtures in air. |

## Section 6. ACCIDENTAL RELEASE MEASURES

In case of a significant release, take immediate efforts to minimize discharge to surface water (storm drains, streams, lakes, rivers, etc). If the release occurs in a closed area, take steps to improve ventilation. If improvement of ventilation is not possible, call the fire department. The material can be swept up and placed into approved storage containers. Do not use a vacuum to gather the material because this may result in dispersion of dust particles and increase the risk for a dust explosion.

## Section 7. HANDLING AND STORAGE

The material should be stored in a cool, dry, environment. It is not recommended to store the material in the proximity of oxidants. When handling the product, wear a dusk mask, eye protection and gloves. The product should always be handled in a well ventilated environment.

## Section 8. EXPOSURE CONTROLS – PERSONAL PROTECTION

| | | |
|---|---|---|
| Engineering controls | : | Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal protection | | |
| Eyes | : | Safety eyewear complying with an approved standard should be used and selected based on the t ask being performed and the risks involved (avoid exposure to liquid splashed, mists, gases or dusts).<br>Where there is a risk of exposure to high velocity particles safety glasses or face shield complying with an approved standard should be used to protect against impact. Where there is a risk of exposure to dusts, goggles should be used.<br>Recommended: Safety glasses. |
| Respiratory | : | Dusk mask or respirator is recommended. |
| Hands | : | Gloves are recommended |

| | | |
|---|---|---|
| Skin/Body | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Risk from dermal contact is minimal. |

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Physical State | : | Solid (Powder) |
| Color | : | Gray |
| Melting/freezing point | : | 1535ºC (2795ºF) |
| Specific gravity | : | 7.88 |
| Bulk density | : | 2.4 to 3.2 g/cm³ |
| Solubility | : | Insoluble in water |

## Section 10. STABILITY AND REACTIVITY

The product is reactive with oxidizers. Precautions should be taken not to store or contact the product with oxidizers.

Fine particles of this product (not widely found in this grade) have a potential for a dust explosion. The product should be handled in a well ventilated area where dust generation is minimized.

## Section 11. TOXICOLOGICAL INFORMATION

Acute Effects

| | |
|---|---|
| Eyes | May cause eye irritation. |
| Skin | No known significant effects or critical hazards. |
| Inhalation | May cause respiratory tract irritation. |
| Ingestion | No known significant effects or critical hazards. |

| | |
|---|---|
| Chronic Health Effects: | Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH |

## Section 12. ECOLOGICAL INFORMATION

Will reduce dissolved oxygen levels in aquatic ecosystems. Direct discharge to surface water should be avoided.

## Section 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized to the extent practical. Disposal of this product, solutions and any by-products should be completed in an environmentally responsible manner that complies with all local, state and federal laws.

## Section 14. TRANSPORT INFORMATION

Classification:

| | |
|---|---|
| AND/ADR/TDG/DOT/IMDG/IATA: | Not regulated. |

# Section 15. REGULATORY INFORMATION

This product is not regulated in the United States and Canada. The user should ensure this product is not regulated where used.

# Section 16. OTHER INFORMATION

| | |
|---|---|
| Health | 0 |
| Fire Hazard | 2 |
| Reactivity | 1 |
| Personal Protection | C |

# MATERIAL SAFETY DATA SHEET

**Guar Gum**
**12/15/09**

## 1. Product and Company Information

**Product Name:** **Rantec® KP4000™ Guar Gum**

**Manufacturer/Supplier:** Rantec Corporation
**Address:** 17 Kukuchka Lane
Ranchester, WY 82839

**Phone Number:** (307) 655-9565
**Fax Number:** (307) 655-9528
**e-mail:** rantec@ranteccorp.com

## 2. Composition / Information on Ingredients

| Ingredient | CAS Number | % Weight | Exposure Limits |
|---|---|---|---|
| Guar Gum | 9000-30-0 | 100 | 5 mg/m$^3$ (respirable) PEL-TWA<br>3 mg/m$^3$ (respirable) TLV-TWA<br>10 mg/m$^3$ (inhalable dust) TLV-TWA |

Chemical Family: Carbohydrate
Formula: Approximately $(C_6H_{10}0_5)n$

## 3. Hazards Identification

**OSHA Hazardous Material:** Yes
**OSHA Hazard Categories:**

1. Carcinogen – NO
2. Corrosive – NO
3. Highly Toxic – NO
4. Irritant – Yes
5. Sensitizer – Yes
6. Toxic – NO
7. Target Organ Effect Lung and Cutaneous -- Yes

**Emergency Overview:**

Concentrations of dust suspended in the air present a fire and explosion hazard.

Inhalation of dust may cause respiratory irritation and possible lung injury with symptoms of shortness of breath and reduced lung function.

Guar gum is very slippery when wet.

**Acute Health Effects:**
**Eye Contact:** Contact may cause irritation based on studies with laboratory animals.

**Skin Contact:** Contact may cause dryness.

**Inhalation:** Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing wheezing and shortness of breath. Guar gum may cause life-threatening allergic reaction in susceptible individuals.

## 3. Hazards Identification (continued)

**Ingestion:** DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions. Get medical attention immediately.

**Chronic (long-term exposure) Health Effects**:

- **Inhalation:** Overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath, difficulty breathing and reduced pulmonary function. Repeated exposures may cause allergic sensitization.
- **Carcinogenicity:** None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.
- **Medical Conditions Aggravated by Exposure:** Persons with pre-existing skin and respiratory disorders may be at an increased risk from exposure.

**Physical Hazards:**

- **Dust:** It is well documented that a dust cloud will fuel an explosion in a confined area with sufficient oxygen and an ignition source. Surface (passive) and airborne (active) dust (fuel) is a potential hazard and the appropriate protective measures should be taken when handling guar outside of the bag in confined work spaces, dust collectors, dryers, mills, sifters, blender, pneumatic conveyance systems, storage tanks, etc. Utilize good housekeeping to remove surface dust from floors, walls, beams, around equipment, etc.
- **Slick Surfaces:** It is possible that an employee will be exposed to guar powder or dust in combination with water on work platform, floor or stair, which will result in a slippery surface.

## 4. First Aid Measures

**Eye:** Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists get medical attention.

**Skin:** First aid is not normally needed. Wash exposed skin with soap and water after use. If irritation or rash develops get medical attention. Use skin lotion if dryness occurs.

**Inhalation:** If symptoms of irritation or allergy develop, remove person from source of exposure to fresh air. If symptoms persist get medical attention.

**Ingestion:** Swallowing even small amounts may have serious, life-threatening effects. Get immediate medical attention.

## 5. Firefighting Measures

**Flashpoint:** Not Applicable
**Auto-Ignition Temperature:** Not Determined
**Lower Explosion Limit:** 0.040 oz/cf
**Upper Explosion Limit:** Not determined

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use streams of water as dust dispersed by water streams can explode.

**Special Fire Fighting Procedures:** Wear positive pressure, self-contained breathing apparatus and full protective clothing.
**Unusual Fire and Explosion Hazards:** Powder has the potential to form explosive mixtures with air. It is well documented that a dust cloud will fuel an explosion hazard. Surface (passive) and airborne (active) dust (fuel) are a potential hazard and the appropriate protective measures should be taken when handling guar gum outside of the original packaging. Avoid creating dust. Keep away from heat, sparks and open flames. As with all dusty materials, use preventative measures including spark proof motors and ventilation to control dust. Utilize good housekeeping to remove surface dust from floors, walls, beams, around equipment, etc.

**Combustion Products:** Oxides of carbon and nitrogen.

## 6: Accidental Release Measures

Wear appropriate protective clothing and equipment. Caution: Guar gum is ***very slippery when wet***. Suspended dust may present a serious dust explosion hazard. Sweep up or vacuum, avoiding the creation of airborne dust. Keep spilled product away from flammable and combustible materials. Use vacuum equipment specifically designed for combustible dusts. Collect into a suitable container for disposal. Wash residual traces with hot water after sweep-up is complete. Test area for residual slippery conditions.

## 7. Handling and Storage

**Handling:** Avoid generating and breathing dust. Avoid eye contact. Use with adequate local exhaust ventilation and dust collection to maintain the concentration of airborne dust below the exposure limits. If clothing becomes contaminated, remove and launder before re-use. Wash thoroughly after handling. Keep product away from oxidizers and all sources of ignition including flames, electrical sparks, hot surfaces, pilot lights, etc.

**Storage:** Keep product dry. Store in a cool, dry area. Keep containers closed to avoid moisture absorption.

## 8. Exposure Controls / Personal Protection

**Engineering Controls:** Consult a qualified engineer for evaluation of materials handling and explosion protection system(s).

**Personal Protective Equipment (PPE):**

- **Eye Protection:** Safety glasses or goggles recommended.
- **Skin Protection:** Rubber, plastic or leather gloves recommended.
- **Respiratory Protection:** If the concentrations exceed the Threshold Value Limit (TLV), a NIOSH approved dust respirator, supplied air respirator or self-contained breathing apparatus is recommended. Select appropriate respiratory protection for respirable particulates based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134 http://www.access.gpo.gov/nara/cfr/cfr-retrieve.html#page1 , ANSI Z88.2 http://www.ansi.org/, the NIOSH Respirator Decision Logic and good industrial hygiene practice http://www.cdc.gov/niosh/homepage.html. To simplify selection of the appropriate respirator, OSHA has developed the Advisor Genius. Available online, the advisor genius allows a safety professional to input the conditions under which the respirator will be used and receive a recommendation of the type of respirator to use. The advisor also contains information about types of respirators and factors that affect respirator use. The online advisor contains a set of options as to the use of the respirator (firefighting, welding, escape purposes, confined areas) and then generates a report with the relevant OSHA standard indicated. The advisor is available at http://www.osha.gov/SLTC/etools/respiratory/respirator_selection.html.

## 9. Physical and Chemical Properties

**Boiling Point:** Not Applicable
**Melting Point:** Decomposes
**Vapor Pressure:** Not Applicable
**Vapor Density (Air=1):** Not Applicable
**% Solubility in Water:** Complete
**Specific Gravity:** Not applicable
**% Volatile:** Not applicable
**Evaporation Rate (Butyl Acetate=1):** Not Applicable
**pH:** 5-8
**Octanol/Water Partition Coefficient:** Not Applicable
**Odor/Appearance:** Creamy white powder with a bean-like odor.

## 10. Stability and Reactivity

**Stability:** Material is stable.
**Incompatibility:** Avoid high temperatures, sparks, open flames and moisture. Avoid contact with strong oxidizing agents.
**Hazardous Reactions-Decomposition Products:** Combustion may produce carbon dioxide, carbon monoxide and oxides of nitrogen.
**Hazardous Polymerization**: Will not occur.

## 11. Toxicological Information

**Guar Gum:** Oral rat LD50: 9.4g/kg

Guar gum is a natural food additive, although direct use in powder or pill form is banned by the FDA due to the risk of respiratory or gastrointestinal blockage

## 12. Ecological Information

No ecotoxicity data is available at this time.

## 13. Disposal Considerations

Dispose in compliance with all applicable federal, state and local regulations. Do not dump down sewers or drains as this may cause blockage.

## 14. Transport Information

**U.S. Department of Transportation (DOT)**
**Proper Shipping Name:** Not Regulated
**Hazard Class:** N/A
**UN/NA Code:** N/A
**Packing Group:** N/A
**Labels Required**: N/A
**IMDG CODE**
**Proper Shipping Name:** NOT REGULATED
**Hazard Class:** N/A
**UN/NA Code:** N/A
**Packaging Group:** N/A
**Labels Required**: N/A

## 15. Regulatory Information

**Regulatory Information**
The United States Food and Drug Administration, the European Economic Community and the World Health Organization accept guar gum as a food additive/ingredient providing it meets specified purity standards and dosage limitations. Maximum usage levels permitted may vary from country to country. Guar gum has been affirmed as GRAS by the United States Food & Drug Administration under title 21, CFR, part 184.1339; it is listed as item G.3 of Table IV, Division 16, of the Canadian Food and Drug Regulations and is referenced E-412 under the EEC Council Directives.

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Reportable Quantity:**
This product is not subject to CERCLA reporting requirements as it is sold.

**OSHA Hazard Categories:** Irritant, Sensitizer, Target Organ Effect.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**
**SARA Section 311/312 Hazard Categories**: Fire Hazard, Acute Health
**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313:** None

## 15. Regulatory Information (continued)

**California Proposition 65:** Guar gum is not a chemical known to the State of California to cause cancer or reproductive toxicity under the "Safe Drinking Water and Toxic Enforcement Act of 1986".

**Toxic Substances Control Act (TSCA):** All components of this product are listed on the TSCA inventory or exempt from notification requirements.

**Canadian Environmental Protection Act**: All of the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

**European Inventory of Existing Commercial Chemical Substances (EINECS):** All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

**Japan MITI:** All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

**Australian Inventory of Chemical Substances:** All of the components of this product are listed on the AICS Inventory or exempt from notification requirements.

**Canadian WHMIS Classification:** Class B, Division 4 (Flammable Solid)

## 16. Other Information

**NFPA Hazard Ratings:**
NFPA® Flammable (combustible dust) with representative diameter less than 420 microns (40 mesh).

| | | |
|---|---|---|
| Health: 1 | Flammability: 2 | Reactivity: 0 |

**HMIS Hazard Ratings:**

| | | |
|---|---|---|
| Health: 1 | Flammability: 1 | Reactivity: 0 |

**Abbreviations:**

| | |
|---|---|
| ACGIH | American Conference Of Governmental Industrial Hygienists |
| ANSI | American National Standards Institute |
| CAS | Chemical Abstracts Service |
| CDC | Centers for Disease Control and Prevention |
| CFR | The Code of Federal Regulations |
| EEC | European Economic Community |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EPA | United States Environmental Protection Agency |
| FDA | United States Food and Drug Administration |
| HMIS | Hazardous Materials Identification System |

| | |
|---|---|
| IARC | International Agency for Research on Cancer |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Lethal Dose expected to cause death in 50% of the test animals |
| MITI | Ministry of International Trade and Industry |
| NFPA | National Fire Protection Association |
| NIOSH | CDC - National Institute for Occupational Safety |
| NTP | National Toxicological Program |

**16. Other Information -- Abbreviations (continued)**

| | |
|---|---|
| OSHA | U.S. Department of Labor, Occupational safety and health administration |
| PEL | OSHA - permissible exposure limit |
| TLV | ACGIH - threshold limit value |
| TWA | Time weighted average |
| UN/NA | United Nations / North America |
| US | United States |
| WHMIS | Workplace Hazardous Materials Information System |

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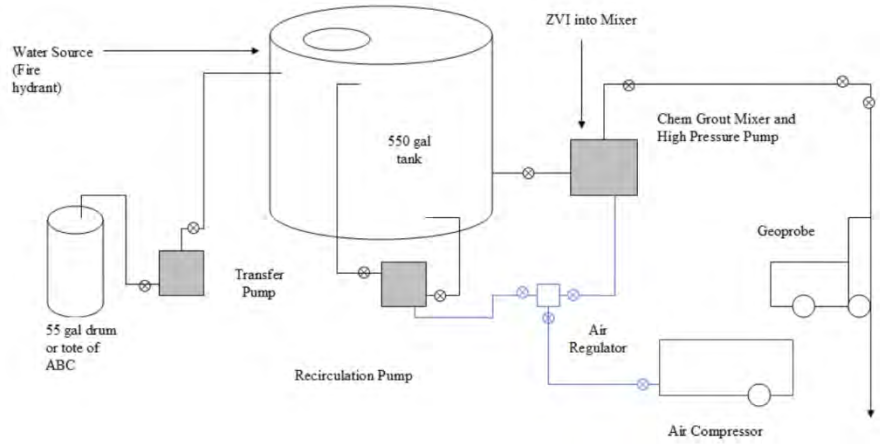
# APPENDIX 5

ABC+ Injection Standard Operating Procedures

# ABC+ Injections

Anaerobic BioChem, ABC® , is a patented mixture of fermentable carbon and a phosphate buffer. ABC® contains soluble glycerol as well as long-term releasing components. The phosphate buffer provides phosphates, which are a micronutrient for bioremediation. In addition, the buffer helps to maintain the pH in a range that is best suited for microbial growth. Using a Geoprobe® and proprietary injection equipment, Redox Tech is able to inject ABC® in most geologic environments, including low-permeability silt and clay. For low permeability environments, Redox Tech utilizes hydraulic fracturing.

In July 2006, the ABC formula was offered with a mixture of ZVI. The new product, marketed as ABC+, provided significant advantages over ABC alone. The ZVI provides an immediate chemical reduction of chlorinated solvents and quickly drives the *in situ* system to reducing conditions.




ABC+ injections are initiated by mixing the ABC product in a 550 gallon mixing tank. Complete mixing is achieved by use of a recirculation pump and then it is transferred into an air powered ChemGrout CG500 high pressure mixing unit. The ABC solution is mixed in the 70 gallon paddle hoppers where guar gum is used to increase the viscosity to a consistency of thin oatmeal. Guar gum can be mixed ahead in a 20 liter bucket at a thicker consistency than the ABC+ mixture. Once the viscosity is increased, the ZVI product is introduced where a slurry is formed. The slurry is transferred to the 3 inch positive placement pump and is pumped to the top of the Geoprobe rods and out of the bottom via an expendable tip, to the desired remediation zone.





The ChemGrout CG500 high pressure mixing plant unit has two 70 gallon mixing hoppers so mixing and pumping can be performed simultaneously. The Geoprobe rods are raised to other specified injection intervals to inject the ABC+ slurry to predetermined intervals.

# Floor Coating and Post Construction Sampling Interim Remedial Measure Workplan (IRMWP)

Location:

## 11075 Walden Avenue
## Alden, New York
## NYSDEC BCP No. C915333

Prepared for:

Walden Realty Limited Partnership
c/o Mr. James J. Doro (Doritex Corp)
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180345

September 17, 2021

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

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CERTIFICATION

I Dan Noll certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

_____

Dan Noll

Date: 9/17/2021



## 1.0 INTRODUCTION

Walden Realty Limited Partnership and J&M Walden Holdings Corp. (formerly named Doritex Corp.) entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on January 19, 2018, to investigate and remediate an approximately 2.94-acre property located at 11075 Walden Avenue in the Town of Alden, Erie County, New York (hereinafter referred to as "Site"). A site location map is presented in Figure 1.

## 2.0 BACKGROUND

### *2.1 Site Description*

The Site consists of one tax parcel (SBL #96.00-4-6.2) totaling 2.94 acres. The Site is located in a suburban area south of Walden Avenue and west of Commerce Drive. Figure 2 illustrates the location and boundaries of the current tax parcel configuration associated with the Site. Current Site features include one, single-story 34,858 square foot vacant commercial building (Site Building) on the central portion of the Site. Exterior areas of the Site include green space to the north, west and south of the Site Building, asphalt-paved parking areas to the east and south of the Site Building, and commercial buildings further to the east across Commerce Drive.

### *2.2 Site History*

The Site consisted of undeveloped land from at least 1880 to at least 1951 and agricultural land from at least 1938 to at least 1951. The Site appears to have been developed with the original portion of the Site Building in at least 1964. The Site was historically utilized as a commercial laundry facility, including dry cleaning, from at least 1988 (potentially as early as the 1970s by others) through 2006. It should be noted that the Site was listed within the Federal Drycleaners, Resource Conservation and Recovery Act Generator, and Aerometric Information Retrieval System's programs associated with the dry cleaning operations. The Site also reportedly utilized a septic system prior to the mid-1980s. Floor drains noted throughout the Site Building may have previously discharged to an on-site septic system. Furthermore, former on-site operations reportedly included printing. Although available resources to date were consulted, the use of the Site Building in the 1960s is unknown. Adjacent properties have been historically utilized agriculturally and commercially.

### *2.3 Site Geology and Hydrogeology*

According to the United States Department of Agriculture Erie County Soil Survey, soils at the Site consist mainly of Kendaia silt loam. Soils of this type are characterized by silt loam, gravelly silt loam and gravelly loam and are generally considered to be somewhat poorly drained soil. Based on the collective subsurface information obtained thus far associated with the investigation and remediation at the Site, the concrete slab of the Site Building was encountered from 0.0 to 0.6 feet below the ground surface (ft bgs), and there was a gravel sub-base to a depth of 1.0 ft bgs. Non-native materials, including asphalt-paved surface material and sub-base gravel to depths ranging from 0.3 to 0.6 ft bgs, were encountered in select exterior areas of the Site. In addition, a fill layer consisting of brown silty clay intermingled with trace gravel, rock and concrete was encountered to depths ranging from 1.0 to 2.0 ft bgs proximate the Site Building foundation areas. Native soils generally consisted of brown-red to brown-gray clayey silts and clays (some laminated at greater

depth) typical of outwash plains and alluvial fans to a depth of 35 ft bgs throughout the Site. Depth to groundwater has been measured at the Site between 1.0 and 31.5 ft bgs. Groundwater flow at the Site is generally to the west-northwest. Bedrock beneath the Site is reported to consist of Marcellus Formation black shale, limestone and sandstone, dating from the Middle Devonian period.

### *2.4 Previous Investigations*

Lender Consulting Services, Inc. prepared a Transaction Screen Environmental Assessment Report dated May 4, 2017 which concluded that further investigation of the Site was warranted due to historical use of the Site as an industrial laundry and dry cleaning facility. Walden Realty Limited Partnership retained LaBella to perform that investigation. Based on the results of LaBella's December 4, 2017 Supplemental Phase II ESA Report, chlorinated solvent volatile organic compound (cVOC)-impacted soil, soil vapor, and groundwater were identified at the Site. Solvent type odors were encountered within soil borings advanced beneath the reported former location of a dry cleaning machine which was historically located within the west-central portion of the Site Building (i.e. Central Warehouse). As such, investigation and remediation of the Site was pursued through entrance of the Site into the NYSDEC Brownfield Cleanup Program (BCP).

### *2.5 BCP Remedial Investigation and Remedial Measures*

Brownfield Cleanup Program Interim Remedial Measures (IRM) and Remedial Investigation (RI) tasks have been completed at the Site as generally summarized below. For complete detail regarding the IRM and RI tasks completed at the Site thus far, please refer to LaBella's Draft Interim Remedial Measures, Remedial Investigation & Alternatives Analysis Report dated November 18, 2020.

An IRM excavation was completed between May 29 and June 5, 2019 to remove cVOC impacted soil from beneath the reported former location of a dry cleaning machine which was historically located within the west portion of the Central Warehouse of the Site Building. The IRM Excavation consisted of a 1,176 square-foot area and was advanced to a maximum depth of approximately 10 ft bgs beneath the previous dry cleaner machine location and four ft bgs in the remainder of the excavation. Approximately 117.46 tons of hazardous soil and 99.34 tons of nonhazardous soils were removed from the Site and disposed of properly.

As initial assessment of the Site in 2017 revealed the presence of a cVOC impact to indoor air and sub-slab soil vapor. IRM activities included installation and subsequent activation of an SSDS within the Site Building on March 24, 2020. Performance evaluation of the SSDS system confirmed that the 20 sub-slab monitoring locations achieved negative pressures of between 0.009 and 0.885 inches of water column (wci) all exceeding the New York State Department of Health (NYSDOH) minimum negative pressure goal of 0.004 wci. Five post SSDS construction indoor air samples (ID1-A through ID5-A) were collected within the Site Building on September 11, 2020 to establish the indoor air conditions subsequent activation and continuous operation of the SSDS. Based on the laboratory results from the post SSDS construction indoor air samples, indoor air samples collected from ID2-A, ID3-A, and ID4-A identified trichloroethene (TCE) at concentrations of 3.27 micrograms per cubic meter (µg/$m^3$), 2.56 µg/$m^3$, and 2.81 µg/$m^3$ respectively, slightly exceeding the NYSDOH Table 3.1, August 2015 revision guidance value of 2 µg/$m^3$. No other analytes were detected exceeding their respective NYSDOH guidance values in the air samples collected from ID2-A, ID3-A, and ID4-A. Furthermore, no analytes were detected at concentrations exceeding NYSDOH guidance

values in the post SSDS construction indoor air samples collected from ID1-A or ID5-A. It should be noted that the post SSDS construction indoor air samples (ID2-A, ID3-A, and ID4-A) which identified TCE at concentrations exceeding the NYSDOH guidance value were all located within the northernmost portion of the Site Building within the Office portion of the Site Building (ID3-A and ID4-A) and immediately south adjacent the office portion of the Site Building (ID2-A) within the Central Warehouse of the Site Building. Evaluation of the source of the elevated concentrations of TCE identified within post SSDS construction indoor air samples ID2-A, ID3-A, and ID-4A are described in Section 2.6 below.

A RI was completed at the Site to further evaluate the surface soil, subsurface soil, groundwater, and soil vapor conditions at the Site. Soil and groundwater samples were generally collected from the Site and submitted for laboratory analysis for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), pesticides and herbicides, perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and, 1,4-dioxane. Of note, groundwater samples collected from MW-12 immediately west of the IRM excavation in March 2019 and July 2019 identified tetrachloroethylene (PCE) concentrations of 1,000 micrograms per liter (µg/l) and 2,500 µg/l, respectively. To improve subsurface conditions proximate to and downgradient of the IRM Excavation and retard potential future migration of contaminants towards the western Site boundary, a Supplemental IRM was performed which included enhanced reductive dechlorination injections at 33 locations within the footprint of the IRM Excavation and proximate the west exterior of the Site Building. Post injection groundwater samples revealed a general decrease in cVOC concentrations within MW-12.

Subsequent submittal of LaBella's Draft Interim Remedial Measures, Remedial Investigation, & Alternatives Analysis Report dated November 18, 2020 to the NYSDEC, the NYSDOH provided a comment letter dated January 7, 2021. Comment #8 contained within the January 7, 2021 letter generally indicated that further indoor air monitoring and/or additional mitigation efforts were required due to the presence of TCE detected at concentrations exceeding NYSDOH Table 3.1, August 2015 revision guidance value of 2 µg/m$^3$ within post SSDS construction indoor air samples collected from ID2-A, ID3-A, and ID4-A. As such, additional assessment was conducted as is detailed within Section 2.6 below to evaluate the source of the TCE detected within post SSDS construction indoor air samples ID2-A, ID3-A, and ID4-A.

### *2.6 TCE Indoor Air Source Evaluation*

In March and April 2021, additional assessment was conducted to further evaluate the source of the elevated TCE concentrations identified within the post SSDS construction indoor air samples collected from ID2-A, ID3-A, and ID4-A. It should be noted that the following was considered during evaluation of the source of the elevated TCE concentrations.

1. The concentrations of TCE detected within ID2-A (3.27 µg/m$^3$), ID3-A (2.56 µg/m$^3$), and ID4-A (2.8 µg/m$^3$) marginally exceeded the NYSDOH Table 3.1, August 2015 revision TCE guidance value of 2 µg/m$^3$.
2. The post SSDS construction indoor air samples which exceeded the NYSDOH Table 3.1, August 2015 revision TCE guidance value were all collected from the north most interior portions of the Site Building.

3. Post SSDS construction indoor air samples ID3-A and ID4-A were located within the Office portion of the Site Building. The Office has a tight building envelope, is heated by a celling mounted forced air unit that is in operation year round, and contains several interior restrooms and sinks as are summarized below.
    a. Office Women's Room - contains one bathroom toilet, one bathroom sink, and one floor drain.
    b. Office Men's Room - contains one bathroom toilet, one urinal, one bathroom sink, and one floor drain.
    c. West Office/Bathroom Shower - contains one bathroom toilet, one bathroom sink, one bathroom shower and two floor drains.
    d. Office Utility Closet – contains one sink.
    e. Office Kitchen/Breakroom – contains one sink.
    f. Production Women's Room – contains two bathroom toilet stalls, two bathroom sinks, and one floor drain.
    g. Production Men's Room – contains two bathroom toilet stalls, two urinals, two bathroom sinks, and one floor drain.

    In addition to the above, it should be noted that all interior office portions of the Site Building contain a dropped ceiling that allows for air exchange between spaces within the greater office portion of the Site Building.
4. A "Utility Room" is located immediately southwest of the greater office portion of the Site Building. It appears that the Utility Room shares a foundation with the greater office portion of the Site Building, however, interior concrete block walls and high ceilings segregate the Utility Room from the remainder of the office portion of the Site Building. The Utility Room houses the water main service to the Site Building, and a sump associated with the water main. In addition, a floor drain is located within the central portion of the Utility Room. It is further worth noting that a wall mounted "vent" is present allowing for free air exchange between the Utility Room and the immediately adjacent Office Kitchen/Breakroom located within the office portion of the Site Building. With the exception of the wall vent located between the Utility Room and adjacent Office Kitchen/Breakroom, and typical entrance and egress between the office the central warehouse, free air exchange between the office portion of the Site Building and the central warehouse of the Site Building is anticipated to be limited.
5. The sump located within the Utility Room contains water. Should the water within the sump contain cVOCs, there is the potential that the water within the sump could be contributing to TCE concentrations detected within the post SSDS construction indoor air samples collected.
6. Post SSDS construction indoor air sample ID2-A was collected immediately south of the Utility Room and immediately southwest of the greater office portion of the Site Building within the Central Warehouse.
7. One trench drain is located south of the Utility Room within the Central Warehouse, and within 10-20 feet post SSDS construction indoor air sample ID2-A.

8. Post SSDS construction indoor air samples ID1-A did not identify any analytes exceeding NYSDOH guidance values despite being located immediately above the IRM Excavation and areas of remaining residual subsurface cVOC impact. It should be noted that the original concrete floor over the IRM Excavation had been demolished, removed, and replaced with a new concrete floor as part of the IRM Excavation work/Site restoration.
9. The existing epoxy floor coating within the Central Warehouse of the Site Building is heavily damaged and in poor condition. As it has been established that a release of cVOCs had occurred proximate the IRM excavation, and there is the potential the cVOCs were handled adjacent to the IRM Excavation or other portions of the Site Building, there is the potential that the concrete floor within the Central Warehouse could contain residual concentrations of cVOCs, and that any cVOCs present within the concrete floor could potentially volatilize and influence cVOC indoor air concentrations within the Site Building.
10. All 20 SSDS monitoring locations achieved negative pressures in excess of the NYSDOH minimum negative pressure goal of 0.004 wci. Subsequent inspection of the SSDS system components in March 2021 indicated the SSDS was operating properly.

Considering the above, additional assessment of the Site was completed to evaluate a source, or factors that could be contributing to the TCE impact identified within the post SSDS construction indoor air samples ID2-A, ID3-A, and ID4-A.

### *2.6.1 Initial TCE Source Evaluation*

On March 18, 2021 a FROG 4000 handheld gas chromatograph system was utilized to evaluate the interior spaces of the Site Building for the presence of PCE and TCE. The FROG 4000 miniaturizes components used for analytical chemistry and is capable of providing reliable data to evaluate concentrations of various analytes within soil, groundwater, and air matrices; however, was specifically factory calibrated for this project to evaluate PCE and TCE air concentrations. The FROG 4000 operates by placing a sampling probe at the desired sampling location. The FROG 4000 is then activated and an air sample is drawn into the FROG 4000 unit over a period of between five and 10 minutes. Once the sample is collected, the FROG 4000 analyzes the sample and provides a concentration for the factory calibrated analytes (in this case PCE and TCE). While a properly calibrated FROG 4000 unit is a useful tool in evaluating field conditions, it is not intended to replace laboratory analysis.

The FROG 4000 was utilized to screen various locations within the north portion of the Site Building (i.e. Office, Utility Room, north portion of Central Warehouse) with an emphasis placed on obtaining PCE and TCE concentrations within specific interior spaces and features that could potentially represent soil vapor preferential pathways such as floor drain penetrations, floor cracks/joints, etc. In addition, to evaluate whether historic handling cVOC containing chemicals within the Site Building had resulted in the presence of cVOCs within the warehouse building foundation (i.e. concrete floor), the existing epoxy floor finish was manually abraded, or chipped, using a hammer and chisel to expose a fresh concrete surface, and subsequently screened using the FROG 4000 for the presence of PCE and TCE. Figure 4 depicts the each FROG 4000 screening location and the corresponding FROG 4000 screening ID. In addition, Table 1 summarizes the concentrations of PCE and TCE detected by the FROG 4000.

To evaluate whether the water within the sump located within the Utility Room was a potential source or contributor of TCE within indoor air, one water sample (Sump 1) was collected from the sump and submitted to Alpha Analytical, Inc. for laboratory analyses for target compound list VOCs using United States Department of Environmental Protection (USEPA) method 8260. A copy of the laboratory report is included in Appendix 5.

*Initial TCE Source Evaluation Results Summary*

1. Ambient Indoor Air 1 collected from the east office identified TCE at a concentration of 5.37 µg/m$^3$ exceeding the NYSDOH guidance value of 2 µg/m$^3$, and is relatively consistent with the concentration of TCE detected within ID4-A of 2.81 µg/m$^3$.
2. Ambient Indoor Air 3 collected from the office/kitchen breakroom identified TCE at a concentration of 6.6 µg/m$^3$, exceeding the NYSDOH guidance value of 2 µg/m$^3$.
3. Ambient Indoor Air 4 collected from within the north most portion of the Central Warehouse (proximate the vending area) identified a concentration of TCE at a concentration of 1.72 µg/m$^3$ which does not exceed the NYSDOH guidance value of 2 µg/m$^3$, and is a slightly reduced concentration when compared to the TCE concentration detected within ID2-A of 3.27 µg/m$^3$.
4. Generally, air samples collected from Floor Drain 1, Floor Drain 2, Floor Drain 3, Floor Drain 6, located within the office women's room, office men's room, west office/bathroom shower, and the production men's room detected concentrations of TCE between 1.24 µg/m$^3$ and 6.34 µg/m$^3$. Although not all the concentrations of TCE detected from the floor drains exceed the NYSDOH guidance value of 2 µg/m$^3$, there is the potential that the TCE present within floor drains may be contributing to indoor air TCE concentrations within Office. It should be noted, that although the configuration of the interior sewer lines has not been confirmed, and not all interior sewer penetrations (i.e. sinks, urinals, toilet stalls) were screened with the FROG 4000, there is the potential that the sewer lines are interconnected, and for the TCE concentrations within the collective sewer penetrations to be similar and collectively contributing to indoor air TCE concentrations within the Office.
5. Floor samples collected within the north portion of the Central Warehouse and Utility Room from Floor 1, Floor 2, Floor 5, and Floor 6 detected concentrations of TCE between 4.29 µg/m$^3$ and 16.20 µg/m$^3$. In addition, PCE was detected within these floor samples at concentrations between 31.86 µg/m$^3$ and 1,343.46 µg/m$^3$. As such, it appears that the concrete within the areas tested contains residual concentrations of TCE and PCE, and it appears likely that volatilization of the residual TCE and PCE is a contributor or source of indoor air impact within the north portion of the Site Building.
6. Based on the laboratory results, with the exception of acetone detected at a concentration of 2.2 µg/l, no VOCs were detected within the water sample collected from the sump (Sump 1) within the Utility Room. It should be noted that acetone is a common laboratory contaminant and the concentration of acetone was detected below the laboratory quantitation limit. As such, the water contained within the sump does not appear to represent a potential source or act as a contributor to TCE within the indoor air.

### 2.6.2 Floor Drain Inspection

On April 20, 2021 a licensed plumber, Petschke Plumbing, Heating, and Air Conditioning (Petschke), mobilized to the Site to clear and inspect five floor drains located within the Office restrooms (Floor Drains 1, 2, 3, 6 and 7). The goal was to evaluate whether the floor drains contained P-traps which are typically installed as a prevention mechanism to stop the backflow of gases from a drainage system, such as a sewer line, into interior spaces. It should be noted that in order for a P-trap to function properly, the P-trap must receive water regularly (the Site Building has been vacant for several years), as the presence of water within the trap physically prevents the backflow of gasses from the sewer into the interior space. Based on the results of Petschke's assessment, it was determined that all five floor drains did contain P-traps; however, all the p-traps were dry. Each P-trap was tested for operation by pouring water into it and monitoring to ensure the water seal was maintained inside the p-trap. No leaks were discovered and the system was filled with water. In addition to the floor drains, all fixtures (toilets, sinks, urinals detailed within Section 2.6) within the Office portion of the Site Building were also filled with water to "wet" the system and fill each P-trap. LaBella remobilized to the Site in April 27, 2021 and re-wet all floor drains and fixtures by pouring several gallons of water down each fixture.

### 2.6.3 Vent Closure

To further inhibit air exchange between the Utility Room and south adjacent central warehouse, on April 27, 2021, the vent between the Utility Room and the immediately adjacent Office Kitchen/Breakroom located within the office portion of the Site Building was temporarily closed using a plastic contractors garbage bag and duct tape. While temporarily closing the vent, significant air exchange was observed entering the Office Kitchen/Breakroom from the Utility Room.

### 2.6.4 Supplemental TCE Source Evaluation

On April 30, 2021, LaBella completed a supplemental TCE source evaluation. The goals of the supplemental TCE indoor air evaluation are described below.

1. Re-evaluate the ambient indoor air within the Office and floor drains for the presence of TCE and PCE subsequent "wetting' of the interior fixture P-traps and sealing the vent present between the Utility Room and the immediately adjacent Office Kitchen/Breakroom.
2. Evaluate the horizontal extent of the TCE and PCE impact identified within the concrete floor of the north portion of the Central Warehouse (Floor 1, Floor 2, Floor 5, and Floor 6).
3. Evaluate the office foundation concrete floor for residual concentrations of TCE and PCE.

It should be noted that the methods utilized to implement the supplemental TCE source evaluation were generally consistent with the methods implemented during the March 18, 2021 initial TCE source evaluation. Due to the presence of various floor finishes within the Office (i.e. carpet and vinyl tile), a hammer drill equipped with a ½ inch diameter drill bit was utilized to perforate the floor finish, and into the concrete beneath the floor finish. Each Office floor location was subsequently screened using the FROG 4000 for the presence of PCE and TCE. Figure 4 depicts each FROG 4000 screening location and the corresponding FROG 4000 screening ID. In addition, Table 1 summarizes the concentrations of PCE and TCE detected by the FROG 4000.

*Initial TCE Source Evaluation Results Summary*

1. None of the ambient indoor air locations screened within the Site Building identified detectable concentrations of PCE of TCE.
2. None of the floor drain locations screened within the Site Building identified detectable concentrations of PCE of TCE.
3. Of the five additional floor samples collected from the central warehouse, only Floor 7 and Floor 8 identified detectable concentrations of PCE and TCE. Concentrations of PCE detected within Floor 7 and Floor 8 were 2.64 µg/m$^3$ and 2.92 µg/m$^3$ respectively. Concentrations of TCE detected within Floor 7 and Floor 8 were 3.97 µg/m$^3$ and 1.88 µg/m$^3$ respectively.
4. With the exception of Floor 16, none of the floor locations screened within the Office identified detectable concentrations of PCE or TCE. PCE was detected within Floor 16 at a concentration of 2.71 µg/m$^3$; however, below the NYSDOH guidance value of 30 µg/m$^3$.

### *2.6.5 TCE Indoor Air Source Evaluation Conclusions*

Based on the collective TCE indoor air source evaluation results, Labella concludes the following.

*Office*

1. Subsequent "wetting" of the floor drain P-traps and fixtures (toilets, sinks, urinals) located within the Office, no detectable concentrations of PCE or TCE were identified within the floor drain or ambient indoor air samples collected from the Office. Although the source of the TCE impact as identified within post SSDS construction indoor air samples ID3-A and ID4-A cannot be confirmed, it appears that there is the potential that the floor drains and fixtures were a source or contributor to TCE within the Office indoor air, and further, that 'wetting" the floor drain P-traps and fixtures has reduced infiltration of TCE from the sewer penetrations within the Office.
2. Subsequent temporary closure of the vent present between the Utility Room and the immediately adjacent Office Kitchen/Breakroom, no detectable concentrations of PCE or TCE were identified within ambient indoor air samples collected from the Office. Although the source of the TCE impact as identified within post SSDS construction indoor air samples ID3-A and ID4-A cannot be confirmed, it appears that there is the potential that residual PCE and TCE present within the Utility Room and south adjacent Central Warehouse (as discussed in greater detail below) floor, and previous free air exchange between Utility Room and the immediately adjacent Office Kitchen/Breakroom was a source or contributor to TCE within the Office indoor air.
3. None of the floor locations screened within the Office identified detectable concentrations of TCE. As such, the presence of significant concentrations of cVOCs within the Office foundation is not suspected.

*Central Warehouse & Utility Room*

Detectable concentrations of PCE (maximum concentration of 1,343.46 µg/m$^3$) and/or TCE (maximum concentration of 16.20 µg/m$^3$) were generally detected within seven of the 11 floor samples collected from within the Central Warehouse and Utility Room. Although the source of the TCE impact as identified within post SSDS construction indoor air sample ID2-A cannot be confirmed, it appears that there is the potential that residual PCE and TCE present within the Utility Room and

Central Warehouse floor is a source or contributor to TCE within the Central Warehouse air. In addition, there is the potential residual PCE and TCE present within the Utility Room and Central Warehouse floor may have been contributing to indoor air concentrations of TCE detected within the Office prior to temporary closure of the vent. It should be noted that post SSDS construction indoor air sample ID2-A was collected in close proximity to floor sample Floor 2 which exhibited the highest combined total concentration of PCE and TCE of the floor samples collected.

## *2.7 Areas of Concern*

The following areas of concern have been identified associated with the Site.

### *AOC #1: Impacted Indoor Ambient Air*

Previous assessment of the Site revealed a soil vapor intrusion concern within the Site Building and an SSDS system was installed within the Site Building. Subsequent installation of the SSDS, as is detailed within Section 2.5 above, post SSDS construction indoor air samples ID2-A, ID3-A, and ID-4A located within the north portion of the Site Building (i.e. Office and Central Warehouse) identified TCE at concentrations slightly exceeding the NYSDOH guidance value. Based on the results of the TCE Indoor Air Source Evaluation as detailed within Section 2.6 above, implementation of an IRM is desired at this time to mitigate potential sources of TCE impact within the north portion of the Site Building.

### *AOC #2: Impacted Soil*

An IRM excavation was advanced between May 29 and June 5, 2019 to remove cVOC impacted soil from beneath the reported former location of a dry cleaning machine which was historically located within the west-central portion of the Site Building. The IRM Excavation consisted of a 1,176 square-foot area and was advanced to a maximum depth of approximately 10 ft bgs beneath the previous dry cleaner machine location and four ft bgs in the remainder of the excavation. Approximately 117.46 tons of hazardous soil and 99.34 tons of nonhazardous soils were removed from the Site and disposed of properly. Further assessment and or remediation of AOC#2 is not being pursued at this time.

### *AOC #3: Impacted Groundwater*

A RI was completed at the Site to further evaluate the surface soil, subsurface soil, groundwater, and soil vapor conditions at the Site. Soil and groundwater samples were generally collected from the Site and submitted for laboratory analysis for VOCs, SVOCs, metals, PCBs, pesticides and herbicides, PFOA, PFOS, and, 1,4-dioxane. Of note, groundwater samples collected from MW-12 immediately west of the IRM excavation in March 2019 and July 2019 identified PCE concentrations of 1,000 µg/l and 2,500 µg/l, respectively. To improve subsurface conditions proximate to and downgradient of the IRM Excavation and retard potential future migration of contaminants towards the west Site boundary, a Supplemental IRM was performed which included enhanced reductive dechlorination injections at 33 locations within the footprint of the IRM Excavation and proximate the west exterior of the Site Building. Post injection monitoring revealed a decrease in PCE and TCE concentrations within MW-12. Further assessment and or remediation of AOC#3 is not being pursued at this time.

### 2.8 *Standards, Criteria, and Guidance*

This section identifies the Standards, Criteria and Guidance (SCG) being applied for work associated within this IRMWP.

*Air Guideline Value SCGs*

NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, Table 3.1, August 2015 revision air guidance values for PCE (30 µg/m$^3$) and TCE (2 µg/m$^3$).

## 3.0 OBJECTIVES OF IRM

The objective is to implement IRMs in attempt to reduce the indoor air TCE concentrations within the north portion of the Site Building (i.e. Office and Central Warehouse) proximate previous sampling locations ID2-A, ID3-A, and ID4-A exhibiting TCE concentrations exceeding the NYSDOH guidelines. Remedial actions proposed include removal and replacement of the existing damaged epoxy floor coating to reduce volatilization of PCE and TCE present within the concrete floor, and achieve the Soil Vapor SCGs within indoor air within the Office and Central Warehouse. To permanently inhibit air exchange between the Utility Room and south adjacent central warehouse, permanent removal and closure of the vent present between the Utility Room and the immediately adjacent Office Kitchen/Breakroom located within the Office will be completed. In addition, "wet" conditions will be maintained within the floor drains and fixtures (i.e. toilets, sinks, urinals) located within the Office. Subsequent implementation of the IRM's, the effectiveness of the IRM's will be evaluated by sampling for TCE proximate the locations (ID2-A, ID3-A and ID4-A) which previously identified concentrations of TCE exceeding the Soil Vapor SCG.

## 4.0 SUMMARY OF REMEDIAL ACTIVITIES

### 4.1 *Governing Documents*

The IRM will be completed in accordance with the Site Health and Safety Plan (HASP) and the Site-Specific Community Air Monitoring Plan (CAMP). The HASP and CAMP are included within this IRMWP. All remedial work performed under this IRM was designed to be in compliance with governmental requirements, including site worker requirements mandated by Federal Occupational Safety and Health Administration (OSHA), and NYSDEC Division of Environmental Remediation-10 (DER-10) Technical Guidance for Site Investigation and Remediation, May 2010, herein referred to as DER-10. Post IRM indoor air sampling will be completed in general conformance with NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006.

### 4.2 *Site Controls & Safety*

The tasks associated with this IRM will primarily be limited to interior areas of the Site Building, which will be properly secured at the end of each day by locking all doors and openings. Site workers will wear safety glasses and steel toe boots as appropriate. Personnel will don modified level C PPE to include a half face VOC rated respirator during diamond grinding activities associated with removal of the existing damaged epoxy floor coating and anytime an indoor fugitive dust hazard exists. A daily health and safety meeting will be held to review planned activities for the day, discuss

lessons learned from the previous day and address any site specific concerns.

### *4.3 Community Air Monitoring Plan (CAMP)*

Continuous community air monitoring will be performed during the resurfacing and preparation of the existing building floor surface. During the resurfacing phase of the floor coating work, building doors will be opened to improve ventilation. A dust monitor will be placed upwind and downwind of the Site to monitor for volatile organic vapors and fugitive dust emissions. If the dust monitors detect fugitive dust or organic vapors in exceedance of NYSDEC action levels, work will be stopped and mitigation techniques immediately implemented. Mitigation techniques may include but are not limited to closing off certain building openings, changing work techniques and methods, or wetting works areas to reduce dust and vapors. LaBella will have a qualified air monitor onsite for the duration of the floor resurfacing work; however, dust monitoring is not expected to be required during application of the new epoxy floor covering. The air monitor will also serve in a construction oversight capacity to document the floor resurfacing and application of the epoxy floor covering to ensure the work is being conducted in accordance with best industry practices.

### *4.4 Epoxy Floor Covering*

Removal and replacement of the of the existing damaged epoxy floor covering will include an area of approximately 3,100 square feet ($ft^2$) to include the north portion of the Central Warehouse and Utility Room. The area for the concrete floor to be treated is detailed within Figure 3 and Figure 4. The area of the floor to be treated was established based on the results of the TCE Indoor Air Source Evaluation as is detailed within Section 2.6, while also extending the footprint of the epoxy floor to the south and east to match existing concrete floor expansion joints. Removal of the existing epoxy floor and application of the new epoxy floor will be completed by a qualified floor coating contractor. The scope of work will include removal of an existing floor coating by diamond grinding and installation of a high quality two part epoxy floor coating.

Preparation of the existing floor is necessary to remove the damaged existing epoxy coating and provide a clean substrate capable of properly bonding with the new two layer epoxy coating. A diamond grinder will be utilized to remove the existing epoxy coating and smooth any irregularities in the existing floor. During the removal of the existing floor coating, dust will be managed with a collection unit attached to the grinding machine. Every effort to efficiently collect and minimize dust will be made. Dust will be handled as general construction waste and disposed of by the contractor. Cracks and large surface deviations will be filled and leveled with an epoxy mortar to ensure the new floor coating is level and will resist cracking under normal conditions. A two-step coating process will be implemented and consist of coating the floor with one coat of Sherwin Williams resuprime 3830 and one coat of Sherwin Williams resuflor 3569. Resuprime 3830 coating is a two part fast curing epoxy resin engineered to withstand vapor emissions. The topcoat will consist of Resuflor 3569 which is a low VOC LEED compliant two part multipurpose epoxy coating. The Resuflor 3569 is a low VOC epoxy that is suitable for use in USDA facilities. Product information sheets for Resuprime 3830 and Resuflor 3569 can be found in Appendix 4. Effort will be made to seal around any penetrations in the floor surface (i.e. utility, ect.). It is anticipated that one utility trench located within the Utility Room and one trench drain located within the Central Warehouse will be cleaned, filled, and covered with the epoxy coating. It is anticipated that removal and replacement of the epoxy floor coating will

take approximately five business days, and full curing of the products will take an additional seven business days.

It is anticipated that replacement of the of the existing damaged epoxy floor covering will reduce PCE and TCE indoor air concentrations within the north portion of the Central Warehouse, and reduce the likelihood of migration of PCE and TCE to other portions of the Site Building including the Office. The process of sealing joints, cracks, and penetrations in the floor will strengthen the impermeable barrier between the atmosphere and the sub-slab environment. This positive separation may improve the performance of the SSDS beneath the Site Building.

### *4.5 Permanent Vent Closure*

A qualified contractor will be retained to remove the vent and permanently close the opening between the Utility Room and the adjacent Office Kitchen/Breakroom located within the office portion of the Site Building.

### *4.6 P-Trap Wetting*

Prior to sampling the P-Traps will be maintained in a wet condition. Approximately one week prior to sampling the indoor air, all P-Traps will be checked for a wet condition. If dry conditions are observed during the pre-sampling inspection, water will be added to fill the appropriate P-Traps.

### *4.7 Post Construction Sampling*

Following successful installation of the new epoxy floor covering, permanent closure of the vent, and wetting of the P-Traps, post IRM indoor air sampling will be completed to evaluate the effectiveness of the IRMs. It is anticipated that post IRM indoor air sampling will be completed during the 2021-22 heating season based on the seasonal weather conditions in western New York. After waiting a minimum of 14 days post construction, accessible exterior doors and windows will be opened for ventilation for a period of approximately 24 hour to ventilate fugitive VOC remaining in the Site Building or originating from the epoxy floor coating, and also to establish a new baseline indoor air condition. Following the successful 24 hour ventilation period, the Site Building will be closed and normal conditions resumed for a 24 hour period.

Three indoor air post IRM samples will be collected from locations consistent with indoor air samples ID2-A, ID3-A and ID4-A, and one ambient outdoor air sample will be collected from location upwind of the Site Building using a summa canister fitted with an eight hour flow regulator and submitted for laboratory analysis for TCE using USEPA Method TO-15.

## 5.0 IRM SCHEDULE AND REPORTING – DELIVERABLES

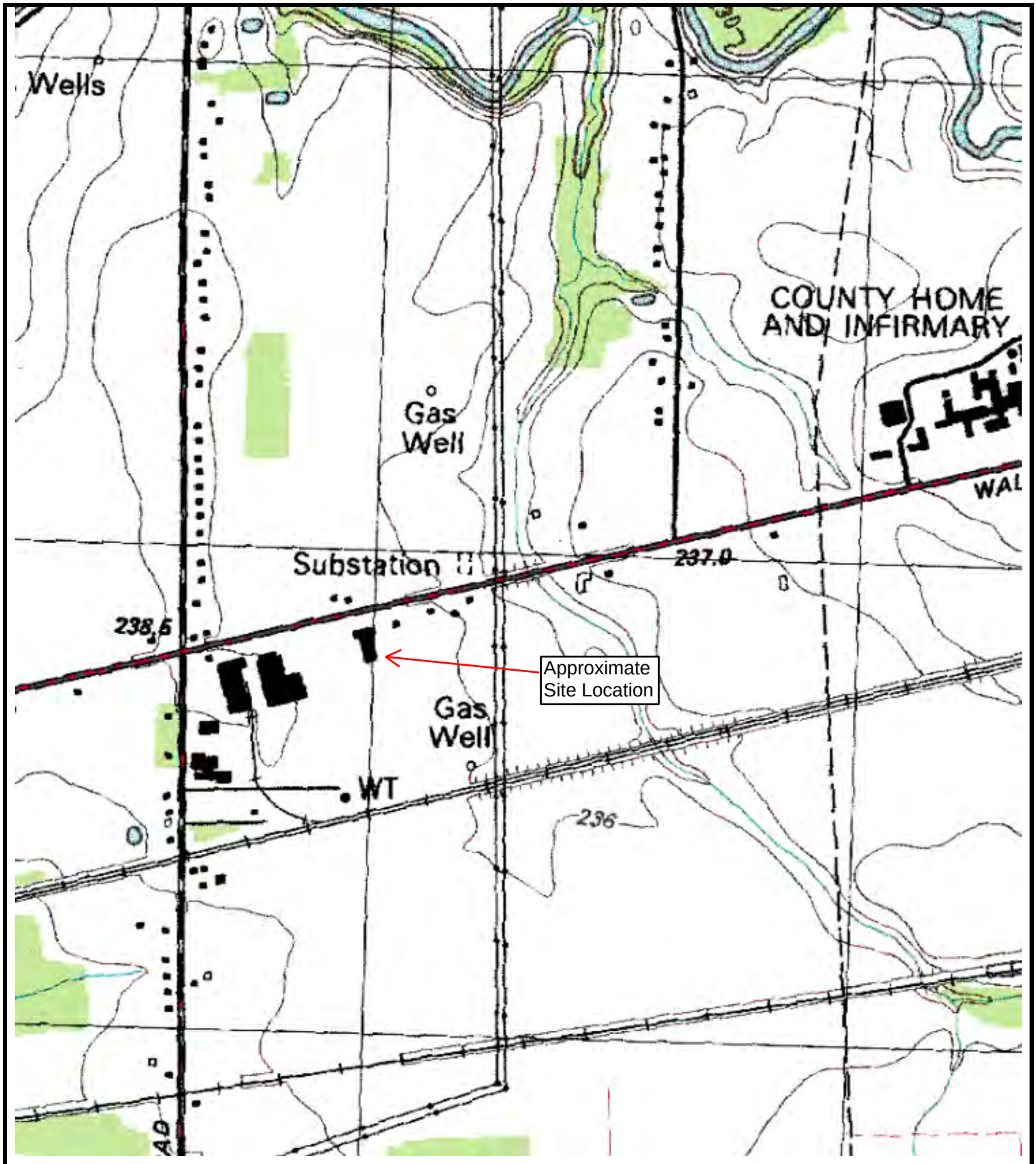
The information and laboratory analytical data obtained during the IRM will be included in a revised Interim Remedial Measures, Remedial Investigation, and Alternatives Analysis report (IRM/RI/AA). The revised IRM/RI/AA report will be completed in accordance with NYSDEC DER-10 Section 5.8.

It is anticipated that implementation of the IRMWP will begin within 30 days after NYSDEC-approval. Completion of the field work is anticipated to require approximately four weeks subsequent to implementation of the IRMWP *(Note: this timeframe does not include laboratory analysis).* A revised IRM/RI/AA report will be submitted within one month of receipt of laboratory analytical results.

The above schedule assumes that an addendum to the IRMWP will not be required. If an IRMWP addendum is required, it will be submitted as the need is identified and it will include a revised schedule.

In addition to the revised IRM/RI/AA report, all data will also be submitted in the NYSDEC-approved EDD format. The data will be submitted within two months of receipt from the laboratory. It is not anticipated that data validation will be required for this IRMWP sampling

# FIGURES




N

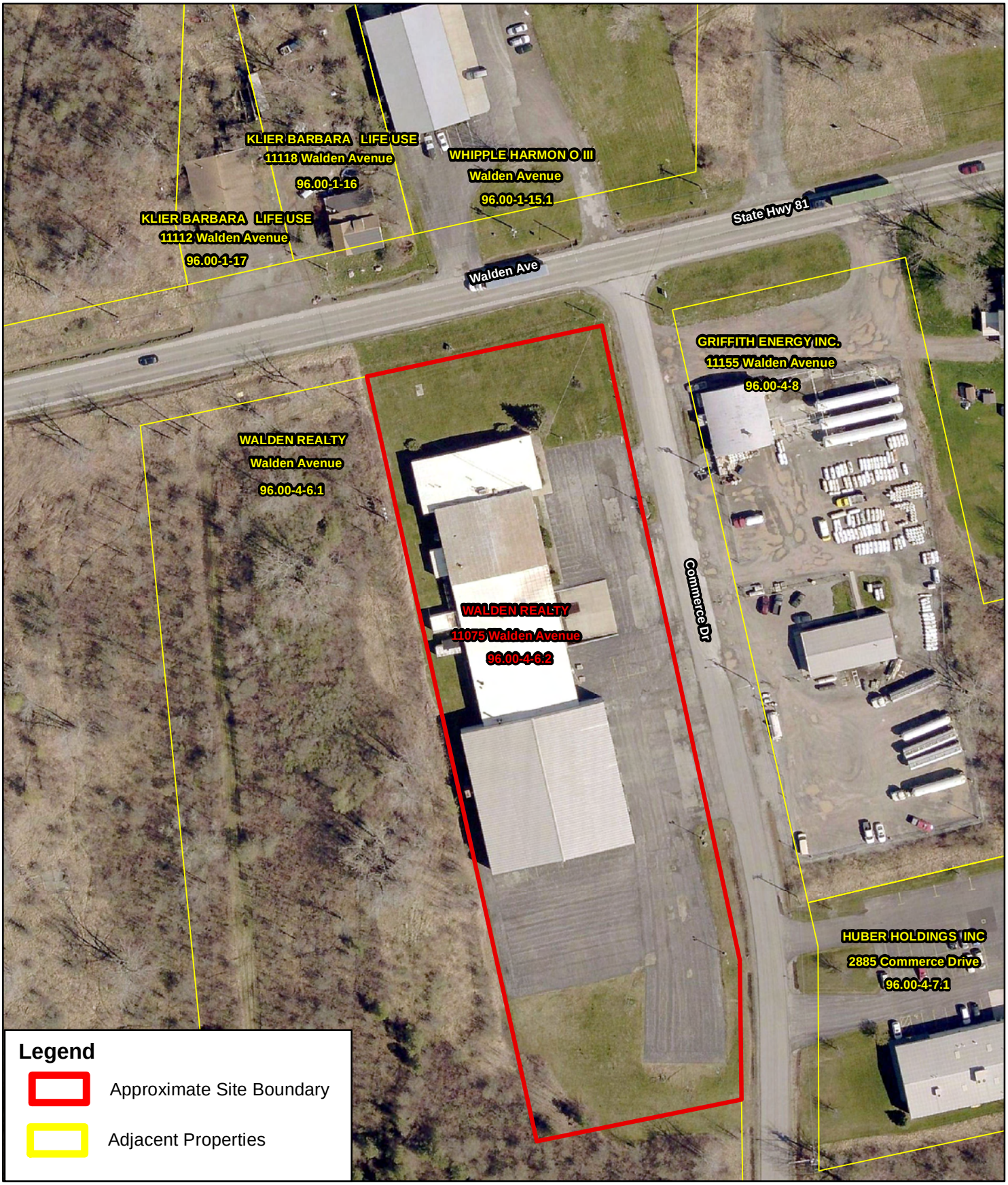
NOT TO SCALE

# FIGURE 1
## SITE LOCATION MAP

11075 Walden Avenue
Alden, New York

LaBella
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PROJECT NO. 2180605




Path: J:\Walden Realty\2180605 - 11075 Walden Ave BCP\Reports\IRM Report\Figures\Map.2019.6.11.Fig2.SiteBaseMap.mxd

| PROJECT #/DRAWING #/DATE: | DRAWING TITLE | PROJECT: |
|---|---|---|
| 2180605<br>FIGURE 2<br>7/26/2021 | SITE BASE MAP | INTERIM REMEDIAL MEASURES REPORT<br>11075 WALDEN AVENUE<br>ALDEN, NEW YORK |

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0 30 60
Feet

1 inch = 108 feet

INTENDED TO PRINT AS: 8.5" X 11"

LaBella
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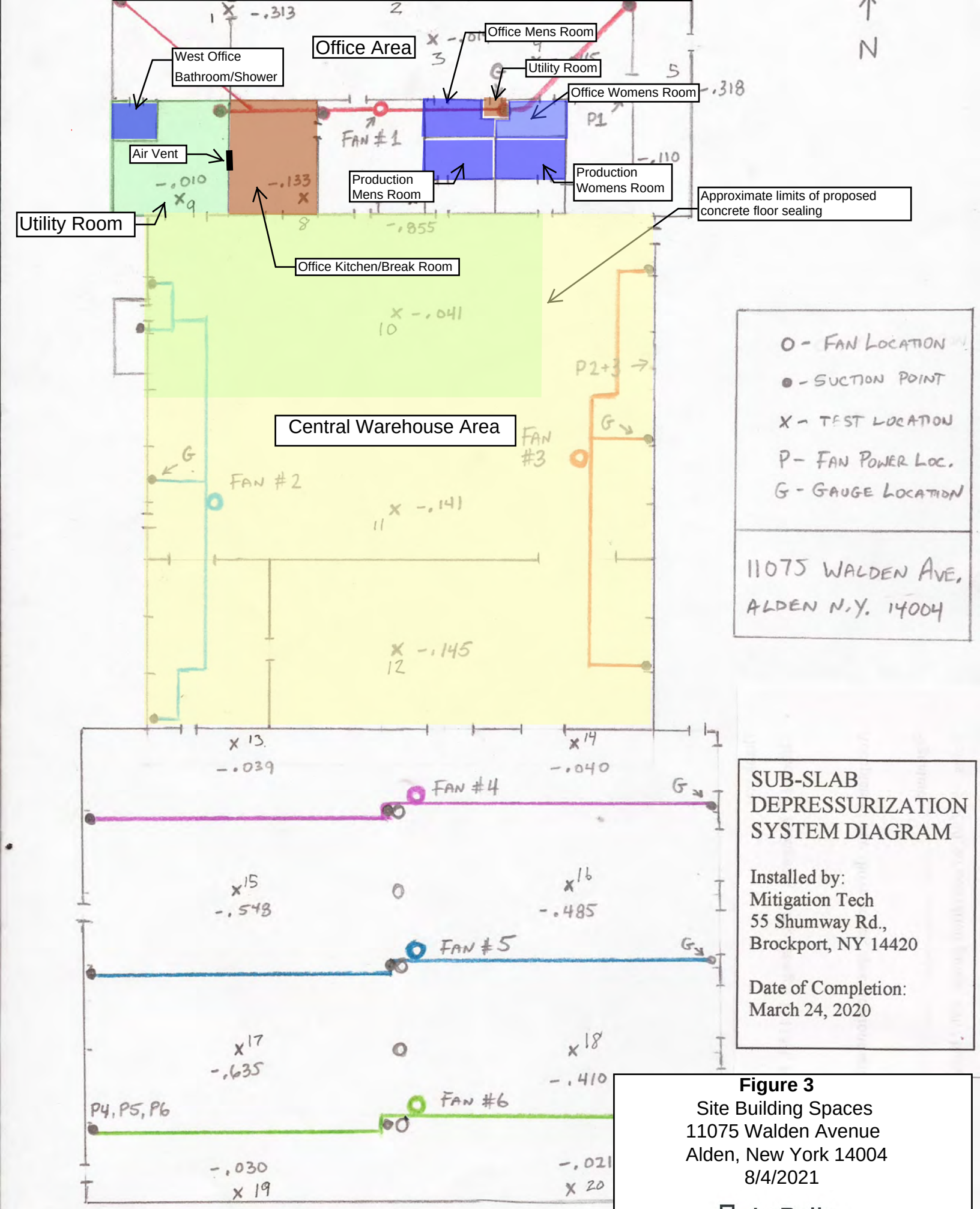



**Figure 3**
Site Building Spaces
11075 Walden Avenue
Alden, New York 14004
8/4/2021

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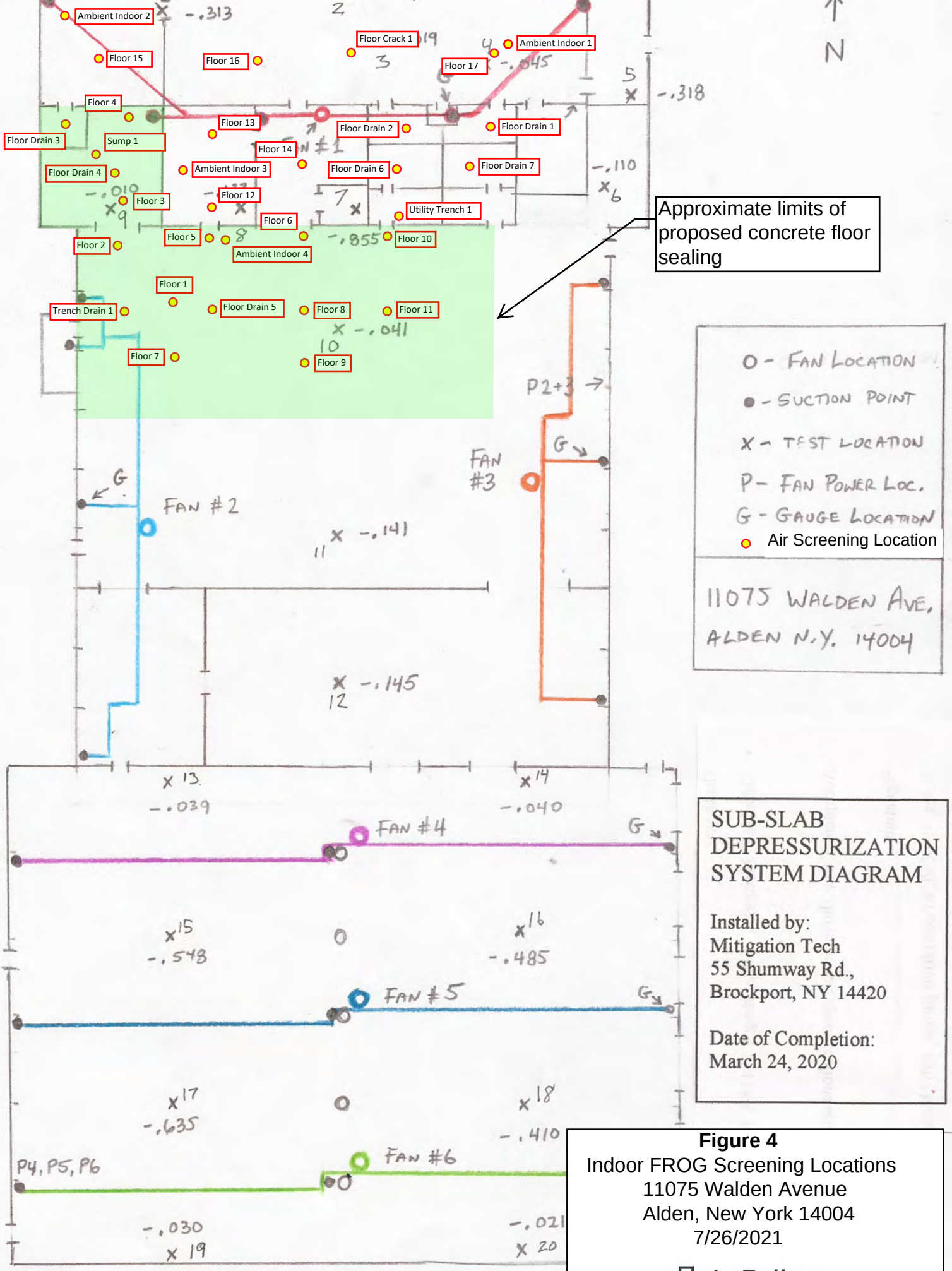



**Figure 4**
Indoor FROG Screening Locations
11075 Walden Avenue
Alden, New York 14004
7/26/2021

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# TABLES

Table 1

11075 Walden Avenue

Alden, New York

Summary of FROG Screening Results

(TCE and PCE Only)

| Sample ID | Location | Air Sample Date | LOG ID | Approximate Sample Time | TCE Concentration (µg/m³) | PCE Concentration (µg/m³) |
|---|---|---|---|---|---|---|
| Ambient Indoor Air 1 | East Office | 3/18/2021 | 221 | 9:20am | 5.37 | 8.54 |
| Ambient Indoor Air 1 | East Office | 4/30/2021 | 786 | 9:27am | ND | ND |
| Ambient Indoor Air 2 | West Office | 3/18/2021 | 222 | 9:33am | ND | ND |
| Ambient Indoor Air 2 | West Office | 4/30/2021 | 787 | 9:38am | ND | ND |
| Ambeint Indoor Air 3 | Office Kitchen/Break Room | 3/18/2021 | 231 | 12:38pm | 6.6 | ND |
| Ambient Indoot Air 3 | Office Kitchen/Break Room | 4/30/2021 | 788 | 9:51am | ND | ND |
| Ambient Indoor Air 4 | North of IRM Excation/Vending Area | 3/18/2021 | 232 | 12:51pm | 1.72 | ND |
| Ambient Indoor Air 4 | North of IRM Excation/Vending Area | 4/30/2021 | 789 | 10:03am | ND | ND |
| Floor Crack 1 | Center Office | 3/18/2021 | 233 | 1:03pm | ND | ND |
| Floor Drain 1 | Office Womens Room | 3/18/2021 | 234 | 1:17pm | 2.2 | ND |
| Floor Drain 1 | Office Womens Room | 4/23/2021 | 790 | 10:15am | ND | ND |
| Floor Drain 2 | Office Mens Room | 3/18/2021 | 236 | 1:45pm | 6.34 | 9.22 |
| Floor Drain 2 | Office Mens Room | 4/30/2021 | 791 | 10:39am | ND | ND |
| Floor Drain 3 | West Office Bathroom/Shower | 3/18/2021 | 237 | 2:00pm | 1.24 | ND |
| Floor Drain 3 | West Office Bathroom/Shower | 4/30/2021 | 792 | 10:53am | ND | ND |
| Floor Drain 4 | Mechanical/Water Main Room | 3/18/2021 | 239 | 2:29pm | ND | ND |
| Floor Drain 5 | Northeast of IRM Excation/South of Vending Area | 3/18/2021 | 240 | 2:48pm | ND | ND |
| Floor Drain 6 | Production Mens Room | 3/18/2021 | 243 | 3:27pm | 1.87 | ND |
| Floor Drain 6 | Production Mens Room | 4/30/2021 | 793 | 11:07am | ND | ND |
| Floor Drain 7 | Production Womens Room | 3/18/2021 | 244 | 3:40pm | ND | ND |
| Floor Drain 7 | Production Womens Room | 4/30/2021 | 794 | 11:17am | ND | ND |
| Sump 1 | Mechanical/Water Main Room | 3/18/2021 | 238 | 2:17pm | ND | ND |
| Trench Drain 1 | North of IRM/South of Mechanical/Water Main Room | 3/18/2021 | 241 | 3:01pm | ND | ND |
| Utility Trench 1 | Production Mens Room | 3/18/2021 | 242 | 3:15pm | ND | ND |
| Floor 1 | South of Vending Area | 3/18/2021 | 245 | 3:53pm | 4.29 | 49.02 |
| Floor 2 | South of Utility/Water Main Room | 3/18/2021 | 246 | 4:12pm | 12.83 | 1,343.46 |
| Floor 3 | Center Utility/Water Main Room | 3/18/2021 | 247 | 4:25pm | ND | 8.54 |
| Floor 4 | Northeast Mechanical/Water Main Room | 3/18/2021 | 248 | 4:38pm | ND | ND |
| Floor 5 | South of Kitchen/Brake Room | 3/18/2021 | 249 | 4:50pm | 16.20 | 189.43 |
| Floor 6 | South of Middle Office | 3/18/2021 | 250 | 5:04pm | 4.88 | 31.86 |
| Floor 7 | 15 Feet South of Floor 1 | 4/30/2021 | 795 | 11:31am | 3.97 | 2.64 |
| Floor 8 | 15 Feet South of Floor 6 | 4/30/2021 | 797 | 11:56am | 1.88 | 2.92 |
| Floor 9 | 15 Feet South of Floor 8 | 4/30/2021 | 798 | 12:06pm | ND | ND |
| Floor 10 | South of Production Mens Room | 4/30/2021 | 799 | 12:14pm | ND | ND |
| Floor 11 | 15 Feet South of Floor 10 | 4/30/2021 | 800 | 12:36pm | ND | ND |
| Floor 12 | South Kitchen/Break Room | 4/30/2021 | 801 | 12:48pm | ND | ND |
| Floor 13 | North Kitchen/Break Room | 4/30/2021 | 802 | 1:00pm | ND | ND |
| Floor 14 | South Office | 4/30/2021 | 803 | 1:15pm | ND | ND |
| Floor 15 | West Office | 4/30/2021 | 804 | 1:24pm | ND | ND |
| Floor 16 | Center Office | 4/30/2021 | 805 | 1:36pm | ND | 2.71 |
| Floor 17 | East Office | 4/30/2021 | 806 | 1:47pm | ND | ND |

Concentrations of trichloroethylene (TCE) and tetrachloroethylene (PCE) reported above are based on FROG-4000 results and are reported in micrograms per cubic meter (µg/m³)

ND = Not detected

# APPENDIX 1

Health and Safety Plan
(HASP)

# Site Health and Safety Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared For:

Mr. Jim Doro
Walden Realty Limited Partnership/Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

July 2021

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
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Tables


Table 1 Exposure Limits and Recognition Qualities

# SITE HEALTH AND SAFETY PLAN

| | |
|---|---|
| **Project Title:** | 11075 Walden Avenue - Brownfield Cleanup Program |
| **Project Number:** | 2180605 |
| **Project Location (Site):** | 11075 Walden Avenue, Alden, New York 14004 |
| **Environmental Director:** | Rob Napieralski |
| **Project Manager:** | Adam Zebrowski |
| **Plan Review Date:** | _____ |
| **Plan Approval Date:** | _____ |
| **Plan Approved By:** | _____<br>Mr. Richard Rote, CIH |
| **Site Safety Supervisor:** | Chris Kibler |
| **Site Contact:** | Jim Doro, Doritex Corp. |
| **Safety Director:** | Rick Rote, CIH |
| **Proposed Date(s) of Field Activities:** | To Be Determined |
| **Site Conditions:** | 2.6± acres; Current Site features include green space to the north, west and south of the Site Building and asphalt-paved parking areas to the east and south of the Site Building. |
| **Site Environmental Information Provided By:** | ❑ Limited Environmental Due Diligence: Transaction Screen report, 11075 Walden Avenue, Alden, New York, prepared by Lender Consulting Services, Inc. dated May 4, 2017<br>❑ Supplemental Phase II Environmental Site Assessment report, 11075 Walden Avenue, Alden, New York, prepared by LaBella Associates, D.P.C. dated December 4, 2017 |
| **Air Monitoring Provided By:** | LaBella Associates, D.P.C. |
| **Site Control Provided By:** | LaBella Environmental, LLC |

# EMERGENCY CONTACTS

| | Name | Phone Number |
|---|---|---|
| Ambulance: | As Per Emergency Service | 911 |
| Hospital Emergency: | St. Joseph's Hospital | 716-891-2606 |
| Poison Control Center: | National Poison Control Center (serving Buffalo Area) | 800-222-1222 |
| Police (local, state): | Erie County Sheriff's Department | 716-937-7675 |
| Fire Department: | Alden Village Fire Department | 716-937-9319 |
| Site Contact: | Jim Doro, Doritex Corp. | 716-684-6600 |
| Agency Contact: | NYSDEC – Anthony Lopes<br>NYSDOH – To Be Determined | 716-851-7220<br>To Be Determined |
| Environmental Director: | Rob Napieralski | Direct: 716-551-6283 |
| Project Manager: | Adam Zebrowski | Direct: 716-840-2548 |
| Site Safety Supervisor: | Brandon Mikolin | Direct: 716-422-2815 |
| Safety Director | Rick Rote, CIH (LaBella) | Direct: 704-941-2123 |

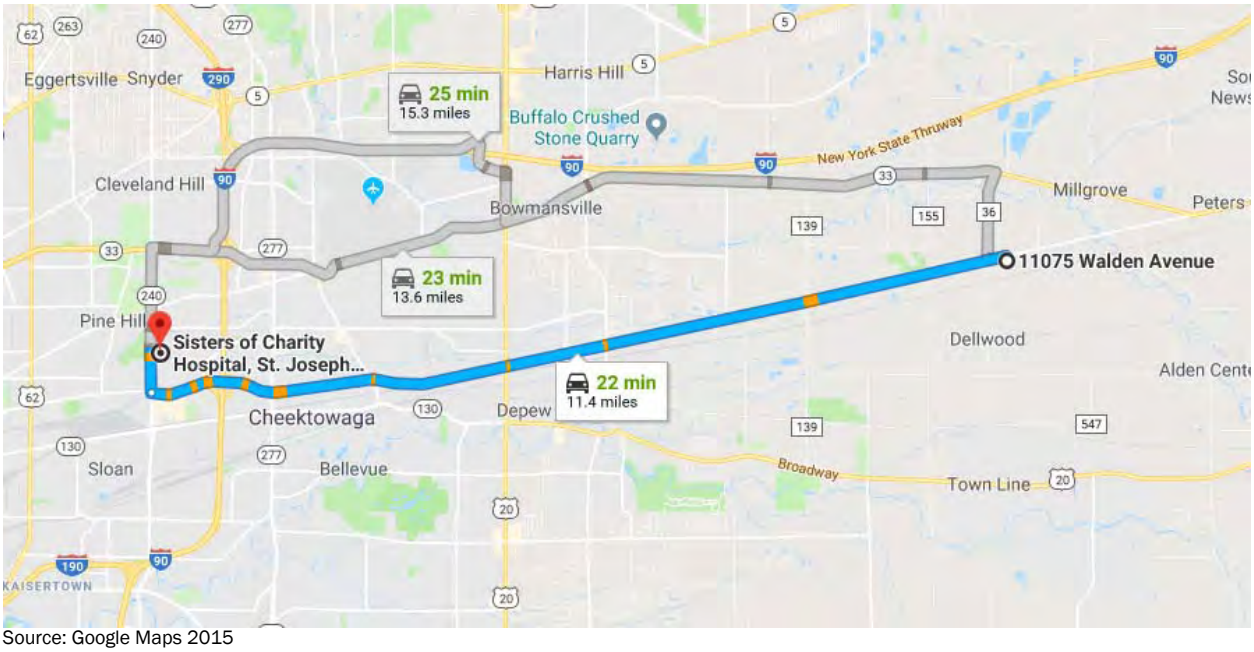
# MAP AND DIRECTIONS TO THE MEDICAL FACILITY
# - ST. JOSEPH'S HOSPITAL

11075 Walden Ave

1. Head west on Walden Ave toward Town Line Rd

Pass by AutoZone (on the left in 6.4 mi)

2. Turn right onto Harlem Rd




Source: Google Maps 2015

## 1.0 INTRODUCTION

The purpose of this Health and Safety Plan (HASP) is to provide guidelines for responding to potential health and safety issues that may be encountered during the Interim Remedial Measure (IRM) at 11075 Walden Avenue in the Town of Alden, Erie County, New York (Site). This HASP only reflects the policies of LaBella Associates, D.P.C. The requirements of this HASP are applicable to all approved LaBella personnel at the work Site. This document's project specifications, and the Community Air Monitoring Plan (CAMP), are to be consulted for guidance in preventing and quickly abating any threat to human safety or the environment. The provisions of the HASP do not replace or supersede any regulatory requirements of the United States Environmental Protection Agency, New York State Department of Environmental Conservation, Occupational Safety and Health Administration or other regulatory bodies.

## 2.0 RESPONSIBILITIES

This HASP presents guidelines to minimize the risk of injury to project personnel, and to provide rapid response in the event of injury. The HASP is applicable only to activities of approved LaBella personnel and their authorized visitors. The Project Manager shall implement the provisions of this HASP for the duration of the project. It is the responsibility of LaBella employees to follow the requirements of this HASP, and all applicable company safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this HASP are limited to the following:

- Management of environmental investigation and remediation activities
- Environmental Monitoring
- Collection of samples
- Management of excavated soil and liquid waste (groundwater)

## 4.0 WORK AREA ACCESS AND SITE CONTROL

The contractor(s) will have primary responsibility for work area access and Site control.

## 5.0 POTENTIAL HEALTH AND SAFETY HAZARDS

This section lists some potential health and safety hazards that project personnel may encounter at the project Site and some actions to be implemented by approved personnel to control and reduce the associated risk to health and safety. This is not intended to be a complete listing of any and all potential health and safety hazards. New or different hazards may be encountered as Site environmental and Site work conditions change. The suggested actions to be taken under this plan are not to be substituted for good judgment on the part of project personnel. At all times, the Site Safety Officer has responsibility for Site safety and his instructions must be followed.

## 5.1 *Hazards Due to Heavy Machinery*

### Potential Hazard:

Heavy machinery including drilling rigs, excavators, trailers, etc. will be in operation at the Site. The presence of such equipment presents the danger of being struck or crushed and can also create noise pollution. Use caution when working near heavy machinery.

### Protective Action:

Make sure that operators are aware of your activities, and heed operator's instructions and warnings. Wear bright colored clothing and walk safe distances from heavy equipment. A hard hat, safety glasses, steel toe shoes and ear protection are required.

## 5.2 *Excavation Hazards*

### Potential Hazard:

Excavations and trenches can collapse, causing injury or death. Edges of excavations can be unstable and collapse. Toxic and asphyxiant gases can accumulate in confined spaces and trenches. Excavations that require working within the excavation will require air monitoring in the breathing zone (refer to Section 9.0).

Excavations left open create a fall hazard which can cause injury or death.

### Protective Action:

Personnel must receive approval from the Project Manager to enter an excavation for any reason. Subsequently, approved personnel are to receive authorization for entry from the Site Safety Officer. Approved personnel are not to enter excavations over 4 feet in depth unless excavations are adequately sloped. Additional personal protective equipment may be required based on the air monitoring.

While shoring is planned for the proposed excavation, personnel should exercise caution near all excavations at the Site as excavation sidewalls may become unstable. Do not proceed closer than 3 feet to an unsupported or non-sloped excavation side wall. The contractor will be responsible to ensure that all excavations are left in a safe condition.

Excavations shall be backfilled immediately following completion. If this is not possible, fencing and/or barriers accompanied by "no trespassing" signs should be placed around all excavations when left open for any period of time when work is not being conducted.

## 5.3 *Cuts, Punctures and Other Injuries*

### Potential Hazard:

In any excavation and construction work Site there is the potential for the presence of sharp or jagged edges on rock, metal materials, and other sharp objects. Serious cuts and punctures can result in loss of blood and infection.

### Protective Action:

The Project Manager is responsible for making First Aid supplies available at the work Site to treat minor injuries. The Site Safety Officer is responsible for arranging the transportation of authorized on-site personnel to medical facilities when First Aid treatment in not sufficient. Do not move seriously injured workers. All injuries requiring treatment are to be reported to

the Project Manager. Serious injuries are to be reported immediately to the Site Safety Officer.

### *5.4 Injury Due to Exposure of Chemical Hazards*

**Potential Hazards:**

Contaminants identified in testing locations at the Site include various chlorinated solvent volatile organic compounds (VOCs). Volatile organic vapors, chlorinated solvents or other chemicals may be encountered during subsurface activities at the project work Site. Inhalation of high concentrations of volatile organic vapors can cause headache, stupor, drowsiness, confusion and other health effects. Skin contact can cause irritation, chemical burn, or dermatitis. In addition, as subsurface activities will take place within the Site Building, there is the potential for carbon monoxide build-up to occur as a result of machinery operation. Inhalation of high concentrations of carbon monoxide can cause headache, stupor, drowsiness, confusion and other health effects including death.

**Protective Action:**

The use of properly selected Personal Protective Equipment (PPE), adherence to standard health and safety pre-cautions (e.g., no smoking or eating within work area or prior to personal decontamination), and implementation of routine dust suppression methods will effectively minimize exposure to the known contaminants on-site.

The presence of organic vapors may be detected by their odor and by monitoring instrumentation. Approved employees will not work in environments where hazardous concentrations of organic vapors are present. Air monitoring (refer to Section 9.0) of the work area will be performed at least every 60 minutes or more often using a Photoionization Detector (PID). Personnel are to leave the work area whenever PID measurements of ambient air exceed 25 parts per million (ppm) consistently for a 5 minute period. In the event that sustained total volatile organic compound (VOC) readings of 25 ppm are encountered personnel should upgrade personal protective equipment to Level C (refer to Section 8.0) and an Exclusion Zone should be established around the work area to limit and monitor access to this area (refer to Section 6.0).

As the potential for Carbon monoxide build-up exists during subsurface activities, the work area will be properly ventilated in real-time. Carbon monoxide concentrations will also be evaluated at least every 60 minutes or more often using a Carbon Monoxide detector. If concentrations of carbon monoxide are identified in exceedance of 10 ppm during subsurface activities, additional ventilation of the work area will be required prior to commencing with such.

### *5.5 Injuries due to extreme hot or cold weather conditions*

**Potential Hazards:**

Extreme hot weather conditions can cause heat exhaustion, heat stress and heat stroke or extreme cold weather conditions can cause hypothermia.

**Protective Action:**

Precaution measures should be taken such as dress appropriately for the weather conditions and drink plenty of fluid. If personnel should suffer from any of the above conditions, proper techniques should be taken to cool down or heat up the body and taken to the nearest hospital if needed.

### *5.6 Injuries due to Saw Cutting of Concrete Surfaces*

**Potential Hazards:**

As saw cutting of the interior concrete slab will be required in order to proceed with the excavation of chlorinated solvent VOC-impacted soils beneath the Site Building, there is the potential for worker exposure to silica dust.

**Protective Action:**

It is recommended that approved personnel conducting saw cutting activities wear at a minimum a ½ face respirator with organic vapor cartridges. On-site personnel not associated with saw cutting activities should remain a safe distance and (if applicable) upwind from the work area during such to avoid exposure to potential silica dust.

## 6.0 WORK ZONES

In the event that conditions warrant establishing various work zones (i.e., based on hazards - Section 5.0), the following work zones should be established:

**Exclusion Zone (EZ):**

The EZ will be established in the immediate vicinity and adjacent downwind direction of Site activities that elevate breathing zone VOC concentrations to unacceptable levels based on field screening. These Site activities include contaminated soil excavation and soil sampling activities. If access to the Site is required to accommodate non-project related personnel then an EZ will be established by constructing a barrier around the work area (yellow caution tape and/or construction fencing). The EZ barrier shall encompass the work area and any equipment staging/soil staging areas necessary to perform the associated work. The contractor(s) will be responsible for establishing the EZ and limiting access to approved personnel. Depending on the condition for establishing the EZ, access to the EZ may require adequate PPE (e.g., Level C).

**Contaminant Reduction Zone (CRZ):**

The CRZ will be the area where personnel entering the EZ will don proper PPE prior to entering the EZ and the area where PPE may be removed. The CRZ will also be the area where decontamination of equipment and personnel will be conducted as necessary.

## 7.0 DECONTAMINATION PROCEDURES

Upon leaving the work area, approved personnel shall decontaminate footwear as needed. Under normal work conditions, detailed personal decontamination procedures will not be necessary. Work clothing may become contaminated in the event of an unexpected splash or spill or contact with a contaminated substance. Minor splashes on clothing and footwear can be rinsed with clean water. Heavily contaminated clothing should be removed if it cannot be rinsed with water. Personnel assigned to this project should be prepared with a change of clothing whenever on Site.

Personnel will use the contractor's disposal container for disposal of PPE.

## 8.0 PERSONAL PROTECTIVE EQUIPMENT

Generally, Site conditions at this work Site require level of protection of Level D or modified Level D; however, air monitoring will be conducted to determine if up-grading to Level C PPE is required (refer to Section 9.0). Descriptions of the typical safety equipment associated with Level D and Level C are provided below:

**Level D:**

Hard hat, safety glasses, rubber nitrile sampling gloves, steel toe construction grade boots, etc.

**Level C:**

Level D PPE and full or ½-face respirator and tyvek suit (if necessary). [*Note: Organic vapor cartridges are to be changed after each 8-hours of use or more frequently.*]

## 9.0 AIR MONITORING

According to 29 CFR 1910.120(h), air monitoring shall be used to identify and quantify airborne levels of hazardous substances and health hazards in order to determine the appropriate level of employee protection required for personnel working onsite. Air monitoring will consist at a minimum of the procedure listed below. Air monitoring instruments will be calibrated and maintained in accordance with the manufacturer's specifications.

The Air Monitor will utilize a PID to screen the ambient air in the work areas (drilling, excavation, soil staging, and soil grading areas) for total VOCs, DustTrak tm Model 8520 aerosol monitors or equivalent for measuring particulates and a carbon monoxide detector for total carbon monoxide concentrations. Work area ambient air will generally be monitored in the work area and downwind of the work area. Air monitoring of the work areas and downwind of the work areas will be performed at least every 60 minutes using a PID, the DustTrak meter and a carbon monoxide detector.

If sustained PID readings of greater than 25 ppm are recorded in the breathing zone, either personnel are to leave the work area until satisfactory readings are obtained or approved personnel may re-enter the work areas wearing at a minimum a ½ face respirator with organic vapor cartridges for an 8-hour duration (i.e., upgrade to Level C PPE). Organic vapor cartridges are to be changed after each 8-hour use or more frequently, if necessary. If PID readings are sustained, in the work area, at levels above 50 ppm for a 5 minute average, work will be stopped immediately until safe levels of VOCs are encountered or additional PPE will be required (i.e., Level B).

As the potential for Carbon monoxide build-up exists during subsurface activities, the work area will be properly ventilated in real-time. If concentrations of carbon monoxide are identified in exceedance of 10 ppm during subsurface activities, additional ventilation of the work area will be required prior to commencing with such.

## 10.0 EMERGENCY ACTION PLAN

In the event of an emergency, employees are to turn off and shut down all powered equipment and leave the work areas immediately. Employees are to walk or drive out of the Site as quickly as possible, wait at the assigned "safe area" and follow the instructions of the Site Safety Officer.

Employees are not authorized or trained to provide rescue and medical efforts. Rescue and medical efforts will be provided by local authorities.

## 11.0 MEDICAL SURVEILLANCE

Medical surveillance will be provided to all employees who are injured due to overexposure from an emergency incident involving hazardous substances at this Site.

## 12.0 EMPLOYEE TRAINING

Personnel who are not familiar with this Site plan will receive training on its entire content and organization before working at the Site.

Individuals involved with the remedial investigation must be 40-hour OSHA HAZWOPER trained with current 8-hour refresher certification.

# Table 1
## Exposure Limits and Recognition Qualities

| Compound | PEL-TWA (ppm)(b)(d) | TLV-TWA (ppm)(c)(d) | STEL (ppm)(b) | LEL (%)(e) | UEL (%)(f) | IDLH (ppm)(g)(d) | Odor | Odor Threshold (ppm) | Ionization Potential |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 750 | 500 | NA | 2.15 | 13.2 | 20,000 | Sweet | 4.58 | 9.69 |
| Anthracene | .2 | .2 | NA | NA | NA | NA | Faint aromatic | NA | NA |
| Benzene | 1 | 0.5 | 5 | 1.3 | 7.9 | 3000 | Pleasant | 8.65 | 9.24 |
| Benzo (a) pyrene (coal tar pitch volatiles) | 0.2 | 0.1 | NA | NA | NA | 700 | NA | NA | NA |
| Benzo (a)anthracene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (b) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (g,h,i)perylene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzo (k) Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA | NA | NA | NA | NA | 10.88 |
| Carbon Disulfide | 20 | 1 | NA | 1.3 | 50 | 500 | Odorless or strong garlic type | .096 | 10.07 |
| Chlorobenzene | 75 | 10 | NA | 1.3 | 9.6 | 2,400 | Faint almond | 0.741 | 9.07 |
| Chloroform | 50 | 2 | NA | NA | NA | 1,000 | ethereal odor | 11.7 | 11.42 |
| Chrysene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethylene | 200 | 200 | NA | 9.7 | 12.8 | 400 | Acrid | NA | 9.65 |
| 1,2-Dichlorobenzene | 50 | 25 | NA | 2.2 | 9.2 | | Pleasant | | 9.07 |
| Ethyl Alcohol | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | 100 | 100 | NA | 1.0 | 6.7 | 2,000 | Ether | 2.3 | 8.76 |
| Fluoranthene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropyl Alcohol | 400 | 200 | 500 | 2.0 | 12.7 | 2,000 | Rubbing alcohol | 3 | 10.10 |
| Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 500 | 50 | NA | 12 | 23 | 5,000 | Chloroform-like | 10.2 | 11.35 |
| Naphthalene | 10, Skin | 10 | NA | 0.9 | 5.9 | 250 | Moth Balls | 0.3 | 8.12 |
| n-propylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Phosphoric Acid | 1 | 1 | 3 | NA | NA | 10,000 | NA | NA | NA |
| Polychlorinated Biphenyl | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Potassium Hydroxide | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pyrene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| p-Isopropylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethane | NA | NA | NA | NA | NA | NA | Sweet | NA | NA |
| Toluene | 100 | 100 | NA | 0.9 | 9.5 | 2,000 | Sweet | 2.1 | 8.82 |
| Trichloroethylene | 100 | 50 | NA | 8 | 12.5 | 1,000 | Chloroform | 1.36 | 9.45 |
| 1,2,4-Trimethylbenzene | NA | 25 | NA | 0.9 | 6.4 | NA | Distinct | 2.4 | NA |
| 1,3,5-Trimethylbenzene | NA | 25 | NA | NA | NA | NA | Distinct | 2.4 | NA |
| Vinyl Chloride | 1 | 1 | NA | NA | NA | NA | NA | NA | NA |
| Xylenes (o,m,p) | 100 | 100 | NA | 1 | 7 | 1,000 | Sweet | 1.1 | 8.56 |
| ***Metals*** | | | | | | | | | |
| Arsenic | 0.01 | 0.2 | NA | NA | NA | 100, Ca | NA | NA | NA |
| Cadmium | 0.2 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | 1 | 0.5 | NA | NA | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | 0.05 | 0.15 | NA | NA | NA | 700 | NA | NA | NA |
| Mercury | 0.05 | 0.05 | NA | NA | NA | 28 | NA | NA | NA |
| Selenium | 0.2 | 0.02 | NA | NA | NA | Unknown | NA | NA | NA |

(a) Skin = Skin Absorption
(b) OSHA-PEL Permissible Exposure Limit (flame weighted average, 8-hour): NIOSH Guide, June 1990
(c) ACGIH – 8 hour time weighted average from Threshold Limit Values and Biological Exposure Indices for 2003.
(d) Metal compounds in mg/m3
(e) Lower Exposure Limit (%)
(f) Upper Exposure Limit (%)
(g) Immediately Dangerous to Life or Health Level: NIOSH Guide, June 1990.

**Notes:**
1. All values are given in parts per million (PPM) unless otherwise indicated.
2. Ca = Possible Human Carcinogen, no IDLH information.

# APPENDIX 2

Community Air Monitoring Plan
(CAMP)

# Site Community Air Monitoring Plan

Location:

11075 Walden Avenue
Alden, New York 14004

Prepared for:

Mr. Jim Doro
Walden Realty Limited Partnership/Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

July 2020

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
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5.0 VOLATILE ORGANIC COMPOUND MONITORING ..... 1
6.0 PARTICULATE MONITORING ..... 2

List of Attachments

Attachment 1: NYSDOH Community Air Monitoring Plan
Attachment 2: NYSDEC Fugitive Dust and Particulate Monitoring Plan

## 1.0 INTRODUCTION

The purpose of this Site Community Air Monitoring Plan (CAMP) is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of remedial work activities at the Site located at 11075 Walden Avenue in the Town of Alden, Erie County, New York. This Site-Specific Air Monitoring Program (SSAMP) is not intended for use in establishing action levels for worker respiratory protection.

This SSAMP requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust), at the downwind perimeter of each designated work area when certain activities are in progress at the Site. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the SSAMP will help to confirm that work activities have not spread contamination off-site through the air.

## 2.0 RESPONSIBILITIES

This SSAMP is applicable to the remedial activities of contractors, engineers, consultants, facility employees, and their authorized visitors. The Project Manager shall implement the provisions of this SSAMP for the duration of the project. It is the responsibility of all remedial workers to follow the requirements of this SSAMP, and all applicable air safety procedures.

## 3.0 ACTIVITIES COVERED

The activities covered under this SSAMP include the following:

- Management of environmental investigation and remediation activities
- Environmental monitoring
- Collection of samples
- Management of excavated soil and liquid waste (groundwater)

## 4.0 WORK AREA ACCESS AND SITE CONTROLS

The contractor(s) will have primary responsibility for work area access and site control.

## 5.0 VOLATILE ORGANIC COMPOUND MONITORING

Monitoring for VOCs will be implemented in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan, which is included in Attachment 1.

## 6.0 PARTICULATE MONITORING

Monitoring for dust will be implemented in accordance with the NYSDOH Generic Community Air Monitoring Plan (Attachment 1) as well as New York State Department of Environmental Conservation's Fugitive Dust and Particulate Monitoring (Attachment 2).

J:\WALDEN REALTY\2180605 - 11075 WALDEN AVE BCP\REPORTS\IRMWP\CAMP\SITE SPECIFIC CAMP_11075 WALDEN AVE..DOCX

**Attachment 1**
**New York State Department of Health**
**Generic Community Air Monitoring Plan**

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/$m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/$m^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/$m^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/$m^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

# ATTACHMENT 2

## NYSDEC Fugitive Dust and Particulate Monitoring Plan

## Attachment 2
## Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50$^{o}$ C (14 to 122$^{o}$ F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

# APPENDIX 3

Floor Coating Information Sheets

# Protective & Marine Coatings

# RESUPRIME™ 3830/3835

| | | |
|---|---|---|
| PART A | GP3830A01 | STANDARD CLEAR |
| PART B | GP3830B01 | STANDARD HARDENER |
| PART A | GP3835A01 | LOW TEMP CLEAR |
| PART B | GP3835B01 | LOW TEMP HARDENER |

Revised: March 17, 2021

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**RESUPRIME 3830/3835** is a fast curing, two-component, epoxy resin that is tolerant of residual moisture in concrete floors and walls. This enables earlier access onto new concrete substrates for the application of Sherwin-Williams flooring systems. Resuprime 3830/3835 is formulated to prevent moisture related disbondment of non-permeable resinous systems.

### ADVANTAGES

- Moisture insensitive to 15 lbs or 97% RH
- Withstands vapor emissions
- Low odor
- Suitable for use in USDA inspected facilities
- Excellent adhesion
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50ºF (10ºC) for standard cure and 40ºF (4ºC) for the low temp (for lower temperature installation contact your Sherwin-Williams representative).

### TYPICAL USES

- For impermeable flooring and wall systems
- Use when moisture readings are less than 15 lbs, as measured by ASTM F1869 or less than 97% relative humidity as measured by ASTM F2170
- Can be applied to saturated surface dry (SSD) concrete

### LIMITATIONS

- Do not apply to wet surfaces
- Substrate must be structurally sound and free of bond inhibiting contaminants
- Concrete must have an effective vapor barrier

### SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical.

Concrete should have a profile of CSP 3-4.

Read and follow the “Instructions for Concrete Surface Preparation” (Form G-1) for complete details.

### PRODUCT CHARACTERISTICS

**Color:** Clear

**Volume Solids:** 100%, mixed

**Weight Solids:** 100%, mixed

**Mix Ratio:** 2:1 (standard), 1.28:1 (low temp)

**VOC (EPA Method 24):** <100 g/L; 0.83 lbs/gal (as applied)

**Recommended Spreading Rate per coat:**

| | Minimum | Maximum |
|---|---|---|
| **Wet mils** (microns): | **8.0** (200) | **20.0** (500) |
| **Coverage sq ft/gal** ($m^2$/L): | **80** (2.0) | **200** (4.9) |

### PRODUCT CHARACTERISTICS (CONT'D)

**Drying Schedule @ 8.0 mils wet (200 microns):**

| | @ 72°F/22°C |
|---|---|
| **Standard:** | 50% RH |
| **To touch:** | 6 hours |
| **To recoat:** | |
| **minimum:** | 6 hours |
| **maximum:** | 18 hours |
| **Foot traffic:** | 24 hours |
| **Heavy traffic:** | 72 hours |
| **Full cure:** | 7 days |
| **Low Temp:** | |
| **To touch:** | 4-5 hours |
| **To recoat:** | |
| **minimum:** | 4 hours |
| **maximum:** | 18 hours |
| **Foot traffic:** | 24 hours |
| **Heavy traffic:** | 48 hours |
| **Full cure:** | 7 days |

*If maximum recoat time is exceeded, abrade surface before recoating.*

*Drying time is temperature, humidity, and film thickness dependent.*

**Pot Life: gallon mass** 15 minutes

**Shelf Life:** 12 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C)

### APPLICATION

**Option #1 (< 8 lbs moisture reading or <85% RH)**

**Mixing and Application**

1. Add resin to hardener. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, do not deviate from the pre-packaged quantities.
2. Apply using a tight squeegee coat and backroll with a high quality 3/8” nap roller. Apply at a spread rate of 8-10 mils evenly with no puddles making sure of uniform coverage.
3. Allow to cure 6* hours minimum for standard cure and 4* hours for low temp.
4. Proceed with resinous system installation.

**Option #2 (< 15 lbs moisture reading or <97% RH)**

**Mixing and Application**

1. Add resin to hardener. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, do not deviate from the pre-packaged quantities.
2. Apply using a tight squeegee coat and backroll with a high quality 3/8” nap roller. Apply at a spread rate of 16-20 mils evenly with no puddles making sure of uniform coverage.
3. Allow to cure 6* hours minimum for standard cure and 4* hours for low temp.
4. Proceed with resinous system installation.

*Cure times vary depending on environmental conditions.



continued on back

Protective & Marine Coatings

# RESUPRIME™ 3830/3835

| | | |
|---|---|---|
| PART A | GP3830A01 | STANDARD CLEAR |
| PART B | GP3830B01 | STANDARD HARDENER |
| PART A | GP3835A01 | LOW TEMP CLEAR |
| PART B | GP3835B01 | LOW TEMP HARDENER |

Revised: March 17, 2021

## PRODUCT INFORMATION

### CHEMICAL RESISTANCE

For comprehensive chemical resistance information, contact your Sherwin-Williams representative.

### CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

### SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Protective & Marine Coatings

# RESUFLOR™ 3569
## MULTI-PURPOSE EPOXY

| | | |
|---|---|---|
| PART A | GP3569 | SERIES |
| PART B | GP3569B01 | STANDARD HARDENER |
| PART B | GP3569B02 | FAST CURE HARDENER |

Revised: March 15, 2021

# PRODUCT INFORMATION

## PRODUCT DESCRIPTION

**RESUFLOR 3569 Multi-Purpose Epoxy** is a high solids, multi-purpose epoxy resin formulated to function as a primer, binder for aggregate or as a topcoat. Available in clear or pigmented this versatile resin allows for one product functionality in aggregate filled or coating applications where high chemical and UV resistance are not requirements.

## ADVANTAGES

- Acceptable for use in USDA inspected facilities
- LEED compliant (<50 g/L VOC)
- Low viscosity
- One product on job site
- Good chemical & abrasion resistance
- Economical

## TYPICAL USES

**RESUFLOR 3569 Multi-Purpose Epoxy** can be used as the primer, binder and topcoat in decorative quartz and paint chip floors or in solid color slurry or mortar floor systems. Typical installations include manufacturing, warehouses, bathrooms, aisles, docks, food & beverage facilities, kitchens, slope to drain and many others. Resuflor 3569 is the ideal choice when a general purpose epoxy floor material is required.

## LIMITATIONS

- Do not expose to water for a minimum of 72 hours, or can stain
- Slab on grade requires vapor/moisture barrier
- Substrate must be structurally sound, dry and free of bond inhibiting contaminants
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50ºF (10ºC). Substrate temperature must be at least 5ºF (3ºC) above the Dew point (for lower temperature installation contact your Sherwin-Williams representative).

## SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the “Instructions for Concrete Surface Preparation” (Form G-1) for complete details.

## PRODUCT CHARACTERISTICS

| | |
|---|---|
| **Color:** | Clear, Steel Gray, Silver Gray |
| **Mix Ratio:** | 4:1 |
| **Volume Solids:** | 91% ± 2%, mixed |
| **Weight Solids:** | 97% ± 2%, mixed |
| **VOC (EPA Method 24):** | <50 g/L ; 0.41 lb/gal, mixed |
| **Viscosity, mixed:** | 500 cps |

**Recommended Spreading Rate as a coating:**

| | Minimum | | Maximum | |
|---|---|---|---|---|
| **Wet mils** (microns)**:** | **10** | (250) | **20** | (500) |
| **~Coverage sq ft/gal** ($m^2$/L)**:** | **80** | (2.0) | **160** | (4.1) |

**Drying Schedule @ 10 mils (250 microns) wet:**

| **Standard Cure Hardener:** | **@ 77°F (25ºC)** |
|---|---|
| **To touch:** | 6-8 hours |
| **To recoat:** | 10-24 hours |
| **Light traffic:** | 24 hours minimum |
| **Full cure:** | 7 days |

*If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.*

**Pot Life:** gallon mass 20 minutes @ 77°F (25ºC)

| **Fast Cure Hardener:** | **@ 77°F (25ºC)** |
|---|---|
| **To touch:** | 6 hours |
| **To recoat:** | 8-16 hours |
| **Light traffic:** | 18-24 hours |
| **Full cure:** | 7 days |

*If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.*

**Pot Life:** gallon mass 12 minutes

| | |
|---|---|
| **Shelf Life:** | Part A: 36 months, unopened<br>Part B (Standard): 36 months, unopened<br>Part B (Fast Cure): 18 months, unopened<br>Store indoors at 50°F (10°C) to 90°F (32°C) |
| **Flash Point:** | 265°F (129°C), ASTM D 93, mixed |

## PERFORMANCE CHARACTERISTICS

| Test Name | Test Method | Results |
|---|---|---|
| **Abrasion Resistance** | ASTM D 4060, CS17 wheel, 1,000 cycles | 80 mg loss |
| **Adhesion** | ACI 503R | 400 psi concrete failure |
| **Compressive Strength** | ASTM D 695<br>ASTM C 579 | 10,000 psi<br>12,000 psi with aggregate |
| **Flammability** | | Self-extinguishing over concrete |
| **Hardness, Shore D** | ASTM D 2040 | 80 |
| **Resistance to Elevated Temperature** | MIL-D-3134J Section 4.7.5 | No slip or flow at required temperature of 158ºF (70ºC) |
| **Tensile Strength** | ASTM D 638<br>ASTM C 307 | 5,000 psi<br>1,800 pis with aggregate |



continued on back

# Protective & Marine Coatings

# RESUFLOR™ 3569
## MULTI-PURPOSE EPOXY

| | | |
|---|---|---|
| PART A | GP3569 | SERIES |
| PART B | GP3569B01 | STANDARD HARDENER |
| PART B | GP3569B02 | FAST CURE HARDENER |

Revised: March 15, 2021

# PRODUCT INFORMATION

## APPLICATION

**APPLICATION INSTRUCTIONS:**

### As Primer

1. Premix 3569A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

2. Add 4 parts 3569A (resin) to 1 part 3569B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 3/8" nap roller at a spread rate of 200-250 sq. ft. per gallon as a primer. Back roll with a spiked roller if necessary to help release entrapped air created from the mixing or application process.

NOTE* After 20-30 minutes setup time, if required, spike roll coating to remove any entrapped air. Do not spike roll after 40 minutes.

### As Topcoat

1. Premix 3569A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

2. Add 4 parts 3569A (resin) to 1 part 3569B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 3/8" nap roller at a spread rate of 80-160 sq. ft. per gallon as a topcoat. Back roll with a spiked roller if necessary to help release entrapped air created from the mixing or application process.

NOTE* After 20-30 minutes setup time, if required, spike roll coating to remove any entrapped air. Do not spike roll after 40 minutes.

### As Binder Resin for Mortar systems

1. Premix 3569A (resin) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3569 A (resin) to 1 part 3569B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Place mixed 3569 into mortar mixer. Slowly add 70 pounds of 5115 aggregate. Mix until aggregate is thoroughly "wet out". Immediately dump mortar onto substrate and screed to desired thickness.

3. Compact and smooth the mortar using a hand or power trowel. Allow to cure (cure times vary depending on environmental conditions). Coverage rate is 32-34 sq, feet at 1/4".

### As Binder Resin for Self-Leveling systems for opaque self-leveling systems or could use solid color

1. Premix 3569A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3569A (resin) to 1 part 3569B (hardener). Mix with low speed drill and Jiffy blade for three minutes and until uniform. Slowly add up to 6 lbs 5350 Trafficote Filler and up to 13 lbs. of 5310 Dry Silica per 1.25 gallons of mixed epoxy. Mix with low speed drill and Jiffy blade for three minutes and until uniform and no lumps remain.

NOTE: 1 gallon of unpacked 5350 is approximately 6 lbs.
1 gallon of unpacked 5310 is approximately 13 lbs.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched trowel or 1/4" v-votched rubber squeegee. Mix will cover 53-55 square feet at 1/16", for non-skid broadcast to refusal with aggregate at a rate of 0.5 lbs per sq. foot to achieve 1/8".

## ORDERING INFORMATION

Packaging:
Part A: 4 gallon (15.1L) container
Part B: 1 gallon (3.78L) container

Weight: 10.8 ± 0.2 lb/gal; 1.29 Kg/L mixed, may vary by color

## CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the your Sherwin-Williams representative.

## CLEANUP

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

## SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

## MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

## DISCLAIMER

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## WARRANTY

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# APPENDIX 4

Floor Coating SDS Sheets

# ENVIRONMENTAL DATA SHEET

**(Certified Product Data Sheet)**

**Date of Preparation**
May 17, 2021

**03 00 [0788]**

**PRODUCT NUMBER**

GP3569A01

**PRODUCT NAME**

Resuflor™ 3569 Multi-Purpose Epoxy (Part A), Clear

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

**Hazard Category (for SARA 311.312)**

GP3569A01 = | Acute | Chronic | Fire |

| Product Weight | Specific Gravity | FLASH POINT |
|---|---|---|
| 9.12 lb/gal | 1.10 | 178 °F PMCC |

**AS MIXED (as per product data sheet): Catalyzed 4 parts GP3569A01 to 1 part GP3569B01**

**AS MIXED**

| Product Weight | Specific Gravity | FLASH POINT |
|---|---|---|
| 8.94 lb/gal | 1.08 | -3 °F TCC |

**Volatile Ingredients**

| Chemical / Compound | SARA 302 EHS | CERCLA | SARA 313 TC | HAPS 112 | % by Weight | % by Volume |
|---|---|---|---|---|---|---|
| **Acetone 67-64-1** | N | Y | N | N | 5 | 7 |

**Volatile Ingredients AS MIXED**

| Chemical / Compound | SARA 302 EHS | CERCLA | SARA 313 TC | HAPS 112 | % by Weight | % by Volume |
|---|---|---|---|---|---|---|
| **Acetone 67-64-1** | N | Y | N | N | 4 | 6 |
| **Diethylenetriamine 111-40-0** | N | N | N | N | 3 | 4 |

**Non-Volatile Ingredients AS MIXED**

| Chemical / Compound | SARA 302 EHS | CERCLA | SARA 313 TC | HAPS 112 | % by Weight | % by Volume |
|---|---|---|---|---|---|---|
| **4,4'-Isopropylidenediphenol 80-05-7** | N | N | Y | N | 2 | 2 |

## Volatile Organic Compounds - U.S. EPA / Canada

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | LB/Gal | g/L | LB/Gal | g/L |
| Coating Density | 9.12 | 1093 | 8.94 | 1071 |
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.4% | 7.5% | 7.2% | 9.5% |
| Federally exempt solvents | | | | |
| Water | 0.0% | 0.0% | 0.0% | 0.0% |
| Acetone | 5.2% | 7.2% | 4.2% | 5.7% |
| Organic Volatiles | 0.2% | 0.3% | 3.0% | 3.8% |
| Percent Non-Volatile | 94.6% | 92.5% | 92.8% | 90.5% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.02 | 2 | 0.26 | 32 |
| Less exempt solvents | 0.02 | 2 | 0.28 | 34 |
| Of solids | 0.02 | 2 | 0.29 | 35 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg | 0.03 lb/lb | 0.03 kg/kg |
| | By wt | | By wt | |
| By wt LVP-VOC | 0.2% | | 3.0% | |

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.06**
AS MIXED Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.41**

## Volatile Organic Compounds - California

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | LB/Gal | g/L | LB/Gal | g/L |
| Coating Density | 9.12 | 1093 | 8.94 | 1071 |
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.4% | 7.5% | 7.2% | 9.5% |
| Exempt solvents | | | | |
| Water | 0.0% | 0.0% | 0.0% | 0.0% |
| Acetone | 5.2% | 7.2% | 4.2% | 5.7% |
| Organic Volatiles | 0.2% | 0.3% | 3.0% | 3.8% |
| Percent Non-Volatile | 94.6% | 92.5% | 92.8% | 90.5% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.02 | 2 | 0.26 | 32 |
| Less exempt solvents | 0.02 | 2 | 0.28 | 34 |
| Of solids | 0.02 | 2 | 0.29 | 35 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg | 0.03 lb/lb | 0.03 kg/kg |
| | By wt | | By wt | |
| By wt LVP-VOC | 0.2% | | 3.0% | |

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.03**
AS MIXED Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.46**

## Volatile Organic Compounds - South Coast Air Quality Management District, California, US

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | LB/Gal | g/L | LB/Gal | g/L |
| Coating Density | 9.12 | 1093 | 8.94 | 1071 |
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.4% | 7.5% | 7.2% | 9.5% |
| Exempt solvents | | | | |
| Water | 0.0% | 0.0% | 0.0% | 0.0% |
| Acetone | 5.2% | 7.2% | 4.2% | 5.7% |
| Organic Volatiles | 0.2% | 0.3% | 3.0% | 3.8% |
| Percent Non-Volatile | 94.6% | 92.5% | 92.8% | 90.5% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.02 | 2 | 0.26 | 32 |
| Less exempt solvents | 0.02 | 2 | 0.28 | 34 |
| Of solids | 0.02 | 2 | 0.29 | 35 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg | 0.03 lb/lb | 0.03 kg/kg |

## Volatile Organic Compounds - EU Directive 2004/42/EC

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.9% | 8.1% | 7.6% | 10.0% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.54 | 64 | 0.68 | 81 |

## Volatile Organic Compounds - EU Directive 2010/75/EU

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.4% | 7.5% | 7.2% | 9.5% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.49 | 59 | 0.64 | 77 |

## Volatile Organic Compounds - Mexico

| | GP3569A01 | | AS MIXED Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | LB/Gal | g/L | LB/Gal | g/L |
| Coating Density | 9.12 | 1093 | 8.94 | 1071 |
| | By wt | By vol | By wt | By vol |
| Total Volatiles | 5.4% | 7.5% | 7.2% | 9.5% |
| Exempt solvents | | | | |
| Water | 0.0% | 0.0% | 0.0% | 0.0% |
| Acetone | 5.2% | 7.2% | 4.2% | 5.7% |
| Organic Volatiles | 0.2% | 0.3% | 3.0% | 3.8% |
| Percent Non-Volatile | 94.6% | 92.5% | 92.8% | 90.5% |
| VOC Content | LB/Gal | g/L | LB/Gal | g/L |
| Total | 0.02 | 2 | 0.26 | 32 |
| Less exempt solvents | 0.02 | 2 | 0.28 | 34 |
| Of solids | 0.02 | 2 | 0.29 | 35 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg | 0.03 lb/lb | 0.03 kg/kg |

## Hazardous Air Pollutants (Clean Air Act, Section 112(b))

| | GP3569A01 | | AS MIXED<br>Catalyzed 4 parts GP3569A01 to 1 part GP3569B01 | |
|---|---|---|---|---|
| | LB/Gal | kg/L | LB/Gal | kg/L |
| Volatile HAPS | 0.00 | 0.000 | 0.00 | 0.000 |
| Of solids | 0.00 | 0.000 | 0.00 | 0.000 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg | 0.00 lb/lb | 0.00 kg/kg |

## Air Quality Data

**Density of Organic Solvent Blend**

6.59 lb/gal

**Photochemically Reactive**

No

**Density of Organic Solvent Blend AS MIXED**

6.78 lb/gal

**Photochemically Reactive AS MIXED**

No

## Additional Regulatory Information

**US EPA TSCA:**

Not Applicable

**Relevant identified uses of the substance or mixture and uses advised against:**

Not Applicable

**US EPA TSCA: AS MIXED**

Not Applicable

**Relevant identified uses of the substance or mixture and uses advised against: AS MIXED**

Not Applicable

## Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

**Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.**

# SAFETY DATA SHEET

GP3569A01

## Section 1. Identification

**Product name** : Resuflor™ 3569 Multi-Purpose Epoxy (Part A)
Clear

**Product code** : GP3569A01

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Paint or paint related material.

**Manufacturer** : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

**Emergency telephone number of the company** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

**Product Information Telephone Number** : US / Canada: 1-800-524-5979
Mexico: Not Available

**Regulatory Information Telephone Number** : US / Canada: (216) 566-2902
Mexico: Not Available

**Transportation Emergency Telephone Number** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 4
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Combustible liquid.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

## Section 2. Hazards identification

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from flames and hot surfaces. No smoking. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

| Ingredient name | % by weight | CAS number |
|---|---|---|
| Epoxy Polymer | ≥75 - ≤90 | 1675-54-3 |
| 4-Nonylphenol | ≤10 | 84852-15-3 |
| Acetone | ≤10 | 67-64-1 |
| Alkyl Glycidyl Ether | ≤5 | 68609-97-2 |
| Phenol, 2-nonyl-, branched | <1 | 91672-41-2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

# Section 4. First aid measures

**Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes severe burns. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

## Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up**

## Section 6. Accidental release measures

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits (OSHA United States)

## Section 8. Exposure controls/personal protection

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3 | None. |
| 4-Nonylphenol | 84852-15-3 | None. |
| Acetone | 67-64-1 | **ACGIH TLV (United States, 3/2020).**<br>TWA: 250 ppm 8 hours.<br>STEL: 500 ppm 15 minutes.<br>**NIOSH REL (United States, 10/2016).**<br>TWA: 250 ppm 10 hours.<br>TWA: 590 mg/m³ 10 hours.<br>**OSHA PEL (United States, 5/2018).**<br>TWA: 1000 ppm 8 hours.<br>TWA: 2400 mg/m³ 8 hours. |
| Alkyl Glycidyl Ether | 68609-97-2 | None. |
| Phenol, 2-nonyl-, branched | 91672-41-2 | None. |

**Occupational exposure limits (Canada)**

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| acetone | 67-64-1 | **CA Alberta Provincial (Canada, 6/2018).**<br>8 hrs OEL: 1200 mg/m³ 8 hours.<br>15 min OEL: 1800 mg/m³ 15 minutes.<br>8 hrs OEL: 500 ppm 8 hours.<br>15 min OEL: 750 ppm 15 minutes.<br>**CA British Columbia Provincial (Canada, 1/2020).**<br>TWA: 250 ppm 8 hours.<br>STEL: 500 ppm 15 minutes.<br>**CA Ontario Provincial (Canada, 6/2019).**<br>TWA: 250 ppm 8 hours.<br>STEL: 500 ppm 15 minutes.<br>**CA Quebec Provincial (Canada, 7/2019).**<br>TWAEV: 500 ppm 8 hours.<br>TWAEV: 1190 mg/m³ 8 hours.<br>STEV: 1000 ppm 15 minutes.<br>STEV: 2380 mg/m³ 15 minutes.<br>**CA Saskatchewan Provincial (Canada, 7/2013).**<br>STEL: 750 ppm 15 minutes.<br>TWA: 500 ppm 8 hours. |

**Occupational exposure limits (Mexico)**

| | CAS # | Exposure limits |
|---|---|---|
| Acetone | 67-64-1 | **NOM-010-STPS-2014 (Mexico, 4/2016).**<br>TWA: 500 ppm 8 hours.<br>STEL: 750 ppm 15 minutes. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 8. Exposure controls/personal protection

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Not available.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : Not available.

**Boiling point/boiling range** : 55°C (131°F)

**Flash point** : Closed cup: 81°C (177.8°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 5.6 (butyl acetate = 1)

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Lower: 2.6%
Upper: 12.8%

**Vapor pressure** : 24 kPa (180 mm Hg) [at 20°C]

**Vapor density** : 2 [Air = 1]

**Relative density** : 1.09

**Solubility** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

## Section 9. Physical and chemical properties

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): >0.205 $cm^2/s$ (>20.5 cSt)

**Molecular weight** : Not applicable.

**Aerosol product**

**Heat of combustion** : 7.186 kJ/g

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

**Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | LD50 Dermal | Rabbit | 20 g/kg | - |
| 4-Nonylphenol | LD50 Oral | Rat | 1300 mg/kg | - |
| Acetone | LD50 Oral | Rat | 5800 mg/kg | - |
| Alkyl Glycidyl Ether | LD50 Oral | Rat | 17100 mg/kg | - |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | Eyes - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| 4-Nonylphenol | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 mg | - |
| Acetone | Eyes - Mild irritant | Human | - | 186300 ppm | - |
| | Eyes - Mild irritant | Rabbit | - | 10 uL | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 395 mg | - |

| | | | | | |
|---|---|---|---|---|---|
| Alkyl Glycidyl Ether | Skin - Moderate irritant | Rabbit | - | 24 hours 500 uL | - |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | - | 3 | - |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Acetone | Category 3<br><br>Category 3 | - | Respiratory tract irritation<br>Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Acetone | Category 2 | - | - |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes severe burns. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

# Section 11. Toxicological information

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

## Numerical measures of toxicity

### Acute toxicity estimates

| Route | ATE value |
|---|---|
| Oral | 16332.71 mg/kg |

# Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 4-Nonylphenol | Acute EC50 0.03 mg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 0.027 mg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 0.044 mg/l | Crustaceans - Moina macrocopa | 48 hours |
| | Acute LC50 17 µg/l Marine water | Fish - Pleuronectes americanus - Larvae | 96 hours |
| | Chronic EC10 0.012 mg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Chronic NOEC 5 µg/l Fresh water | Crustaceans - Gammarus fossarum - Adult | 21 days |
| | Chronic NOEC 7.4 µg/l Fresh water | Fish - Pimephales promelas - Embryo | 33 days |
| Acetone | Acute EC50 7200000 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute LC50 4.42589 ml/L Marine water | Crustaceans - Acartia tonsa - Copepodid | 48 hours |
| | Acute LC50 7460000 µg/l Fresh water | Daphnia - Daphnia cucullata | 48 hours |
| | Acute LC50 5600 ppm Fresh water | Fish - Poecilia reticulata | 96 hours |
| | Chronic NOEC 4.95 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 0.016 ml/L Fresh water | Crustaceans - Daphniidae | 21 days |
| | Chronic NOEC 0.1 ml/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC 5 µg/l Marine water | Fish - Gasterosteus aculeatus - Larvae | 42 days |

## Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| Acetone | - | - | Readily |

## Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| 4-Nonylphenol | - | 740 | high |
| Alkyl Glycidyl Ether | - | 160 to 263 | low |

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere

## Section 13. Disposal considerations

inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|---|---|---|---|---|---|
| **UN number** | UN3066 | UN3066 | UN3066 | UN3066 | UN3066 |
| **UN proper shipping name** | PAINT | PAINT | PAINT | PAINT | PAINT. Marine pollutant (4-Nonylphenol, Phenol, 2-nonyl-, branched) |
| **Transport hazard class(es)** | 8   | 8   | 8   | 8   | 8   |
| **Packing group** | III | III | III | III | III |
| **Environmental hazards** | No. | No. | No. | Yes. The environmentally hazardous substance mark is not required. | Yes. |
| **Additional information** | - <br><br> **ERG No.** <br> 153 | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8). <br> **ERG No.** <br> 153 | - <br><br> **ERG No.** <br> 153 | The environmentally hazardous substance mark may appear if required by other transportation regulations. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <br> **Emergency schedules** F-A, S-B |

**Special precautions for user** : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according to IMO instruments** : Not available.

## Section 14. Transport information

**Proper shipping name** : Not available.

## Section 15. Regulatory information

**TSCA 5(a)2 proposed significant new use rules**: 4-Nonylphenol; Phenol, 2-nonyl-, branched

**SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

**California Prop. 65**

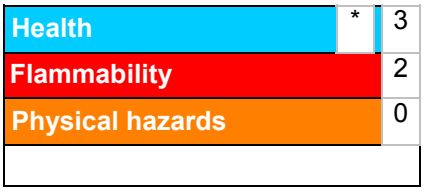
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**International regulations**

**International lists** : **Australia inventory (AIIC)**: Not determined.
**China inventory (IECSC)**: Not determined.
**Japan inventory (CSCL)**: Not determined.
**Japan inventory (ISHL)**: Not determined.
**Korea inventory (KECI)**: Not determined.
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
**Philippines inventory (PICCS)**: Not determined.
**Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
**Thailand inventory**: Not determined.
**Turkey inventory**: Not determined.
**Vietnam inventory**: Not determined.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)**




**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 4 | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 1B | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| TOXIC TO REPRODUCTION - Category 2 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |

**History**

**Date of printing** : 5/17/2021

**Date of issue/Date of revision** : 5/17/2021

**Date of previous issue** : 4/13/2021

# Section 16. Other information

**Version** : 16

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

**Indicates information that has changed from previously issued version.**

## Notice to reader

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.**

# ENVIRONMENTAL DATA SHEET

**(Certified Product Data Sheet)**

**Date of Preparation**
May 19, 2021

**01 00 [2970]**

**PRODUCT NUMBER**

GP3830A01

**PRODUCT NAME**

Resuprime™ 3830/3835 Standard (Part A), Clear

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

**Hazard Category (for SARA 311.312)**

GP3830A01 = | Acute | Chronic |

| Product Weight | Specific Gravity | FLASH POINT |
|---|---|---|
| 9.31 lb/gal | 1.12 | > 200 °F PMCC |

**Volatile Ingredients**

Not Applicable

## Volatile Organic Compounds - U.S. EPA / Canada

| | GP3830A01 | |
|---|---|---|
| | **LB/Gal** | **g/L** |
| Coating Density | 9.31 | 1115 |
| | **By wt** | **By vol** |
| Total Volatiles | 0.0% | 0.0% |
| Federally exempt solvents | | |
| Water | 0.0% | 0.0% |
| Organic Volatiles | 0.0% | 0.0% |
| Percent Non-Volatile | 100.0% | 100.0% |
| VOC Content | **LB/Gal** | **g/L** |
| Total | 0.00 | 0 |
| Less exempt solvents | 0.00 | 0 |
| Of solids | 0.00 | 0 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg |
| | **By wt** | |
| By wt LVP-VOC | 0.0% | |

Maximum Incremental Reactivity (MIR) (per US EPA Aerosol Ctg Rule, MIR Values 2009) **0.00**

## Volatile Organic Compounds - California

| | GP3830A01 | |
|---|---|---|
| | LB/Gal | g/L |
| Coating Density | 9.31 | 1115 |
| | By wt | By vol |
| Total Volatiles | 0.0% | 0.0% |
| Exempt solvents | | |
| Water | 0.0% | 0.0% |
| Organic Volatiles | 0.0% | 0.0% |
| Percent Non-Volatile | 100.0% | 100.0% |
| VOC Content | LB/Gal | g/L |
| Total | 0.00 | 0 |
| Less exempt solvents | 0.00 | 0 |
| Of solids | 0.00 | 0 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg |
| | By wt | |
| By wt LVP-VOC | 0.0% | |

Maximum Incremental Reactivity (MIR) (per California Air Resources Board Aerosol Products Regulation, MIR Values 2010) **0.00**

## Volatile Organic Compounds - South Coast Air Quality Management District, California, US

| | GP3830A01 | |
|---|---|---|
| | LB/Gal | g/L |
| Coating Density | 9.31 | 1115 |
| | By wt | By vol |
| Total Volatiles | 0.0% | 0.0% |
| Exempt solvents | | |
| Water | 0.0% | 0.0% |
| Organic Volatiles | 0.0% | 0.0% |
| Percent Non-Volatile | 100.0% | 100.0% |
| VOC Content | LB/Gal | g/L |
| Total | 0.00 | 0 |
| Less exempt solvents | 0.00 | 0 |
| Of solids | 0.00 | 0 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg |

## Volatile Organic Compounds - EU Directive 2004/42/EC

| | GP3830A01 | |
|---|---|---|
| | By wt | By vol |
| Total Volatiles | 0.0% | 0.0% |
| VOC Content | LB/Gal | g/L |
| Total | 0.00 | 0 |

## Volatile Organic Compounds - EU Directive 2010/75/EU

| | GP3830A01 | |
|---|---|---|
| | By wt | By vol |
| Total Volatiles | 0.0% | 0.0% |
| VOC Content | LB/Gal | g/L |
| Total | 0.00 | 0 |

## Volatile Organic Compounds - Mexico

| | GP3830A01 | |
|---|---|---|
| | LB/Gal | g/L |
| Coating Density | 9.31 | 1115 |
| | By wt | By vol |
| Total Volatiles | 0.0% | 0.0% |
| Exempt solvents | | |
| Water | 0.0% | 0.0% |
| Organic Volatiles | 0.0% | 0.0% |
| Percent Non-Volatile | 100.0% | 100.0% |
| VOC Content | LB/Gal | g/L |
| Total | 0.00 | 0 |
| Less exempt solvents | 0.00 | 0 |
| Of solids | 0.00 | 0 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg |

## Hazardous Air Pollutants (Clean Air Act, Section 112(b))

| | GP3830A01 | |
|---|---|---|
| | LB/Gal | kg/L |
| Volatile HAPS | 0.00 | 0.000 |
| Of solids | 0.00 | 0.000 |
| Of solids | 0.00 lb/lb | 0.00 kg/kg |

## Air Quality Data

**Density of Organic Solvent Blend**

Not Applicable

**Photochemically Reactive**

No

## Additional Regulatory Information

**US EPA TSCA:**

Not Applicable

**Relevant identified uses of the substance or mixture and uses advised against:**

Not Applicable

## Waste Disposal

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

**Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.**

# SAFETY DATA SHEET

GP3830A01

## Section 1. Identification

**Product name** : Resuprime™ 3830/3835 Standard (Part A)
Clear

**Product code** : GP3830A01

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Paint or paint related material.

**Manufacturer** : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

**Emergency telephone number of the company** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

**Product Information Telephone Number** : US / Canada: 1-800-524-5979
Mexico: Not Available

**Regulatory Information Telephone Number** : US / Canada: (216) 566-2902
Mexico: Not Available

**Transportation Emergency Telephone Number** : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 30% (oral), 30% (dermal), 30% (inhalation)

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

## Section 2. Hazards identification

**Response** : Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

| Ingredient name | % by weight | CAS number |
|---|---|---|
| Epoxy Polymer | ≥50 - ≤75 | 1675-54-3 |
| Phenol-Formaldehyde Polymer | ≥25 - ≤50 | 9003-36-5 |
| Alkyl Glycidyl Ether | ≥10 - ≤25 | 68609-97-2 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

# Section 4. First aid measures

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

## Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds

## Section 5. Fire-fighting measures

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits (OSHA United States)

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3 | None. |
| Phenol-Formaldehyde Polymer | 9003-36-5 | None. |
| Alkyl Glycidyl Ether | 68609-97-2 | None. |

#### Occupational exposure limits (Canada)

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| None. | | |

#### Occupational exposure limits (Mexico)

| | CAS # | Exposure limits |
|---|---|---|
| None. | | |

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 8. Exposure controls/personal protection

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Not available.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : Not available.

**Boiling point/boiling range** : Not available.

**Flash point** : Closed cup: 100°C (212°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : Not relevant/applicable due to nature of the product.

**Vapor density** : Not available.

**Relative density** : 1.11

**Solubility** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): >0.205 $cm^2/s$ (>20.5 cSt)

**Molecular weight** : Not applicable.

**Aerosol product**

**Heat of combustion** : 0 kJ/g

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

# Section 10. Stability and reactivity

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | LD50 Dermal | Rabbit | 20 g/kg | - |
| Alkyl Glycidyl Ether | LD50 Oral | Rat | 17100 mg/kg | - |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | Eyes - Severe irritant | Rabbit | - | 24 hours 2 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Phenol-Formaldehyde Polymer | Skin - Mild irritant | Rabbit | - | 24 hours 500 uL | - |
| Alkyl Glycidyl Ether | Skin - Moderate irritant | Rabbit | - | 24 hours 500 uL | - |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | - | 3 | - |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

# Section 11. Toxicological information

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Numerical measures of toxicity

### Acute toxicity estimates

Not available.

# Section 12. Ecological information

## Toxicity

Not available.

## Persistence and degradability

Not available.

## Section 12. Ecological information

**Bioaccumulative potential**

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Alkyl Glycidyl Ether | - | 160 to 263 | low |

**Mobility in soil**

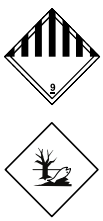
**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|---|---|---|---|---|---|
| **UN number** | Not regulated. | Not regulated. | Not regulated. | UN3082 | UN3082 |
| **UN proper shipping name** | - | - | - | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Polymer, Phenol-Formaldehyde Polymer) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Polymer, Phenol-Formaldehyde Polymer). Marine pollutant (Epoxy Polymer, Phenol-Formaldehyde Polymer) |
| **Transport hazard class(es)** | - | - | - | 9  | 9  |
| **Packing group** | - | - | - | III | III |
| | | | | | |

## Section 14. Transport information

| | | | | | |
|---|---|---|---|---|---|
| **Environmental hazards** | No. | No. | No. | Yes. | Yes. |
| **Additional information** | - | - | - | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. **Emergency schedules** F-A, S-F |

**Special precautions for user** : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according to IMO instruments** : Not available.

**Proper shipping name** : Not available.

## Section 15. Regulatory information

**SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

**California Prop. 65**

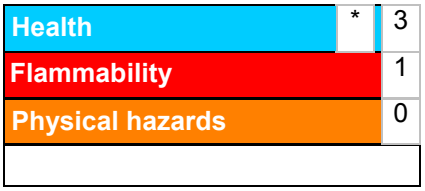
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**International regulations**

**International lists** : **Australia inventory (AIIC)**: Not determined.
**China inventory (IECSC)**: Not determined.
**Japan inventory (CSCL)**: Not determined.
**Japan inventory (ISHL)**: Not determined.
**Korea inventory (KECI)**: Not determined.
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
**Philippines inventory (PICCS)**: Not determined.
**Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
**Thailand inventory**: Not determined.
**Turkey inventory**: Not determined.
**Vietnam inventory**: Not determined.

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1 | Calculation method<br>Calculation method<br>Calculation method |

## History

**Date of printing** : 5/19/2021

**Date of issue/Date of revision** : 5/19/2021

**Date of previous issue** : 4/17/2021

**Version** : 7.01

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

**Indicates information that has changed from previously issued version.**

## Notice to reader

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of**

## Section 16. Other information

**sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.**

# APPENDIX 5

Laboratory Analytical Reports

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L2110231 |
| Client: | LaBella Associates, P.C.<br>300 Pearl Street<br>Suite 252<br>Buffalo, NY 14202 |
| ATTN: | Adam Zebrowski |
| Phone: | (716) 551-6281 |
| Project Name: | DORITEX |
| Project Number: | 2180605 |
| Report Date: | 03/09/21 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

**Project Name:** DORITEX
**Project Number:** 2180605

**Lab Number:** L2110231
**Report Date:** 03/09/21

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2110231-01 | SUMP 1 | WATER | 11075 WALDEN AVENUE | 03/02/21 11:01 | 03/02/21 |

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

## Case Narrative

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

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

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

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

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

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

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

**Case Narrative (continued)**

Report Submission

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

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 03/09/21

# ORGANICS

# VOLATILES

**Project Name:** DORITEX
**Project Number:** 2180605
**Lab Number:** L2110231
**Report Date:** 03/09/21

## SAMPLE RESULTS

Lab ID: L2110231-01
Client ID: SUMP 1
Sample Location: 11075 WALDEN AVENUE
Date Collected: 03/02/21 11:01
Date Received: 03/02/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/05/21 15:18
Analyst: LAC

| 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 | 0.14 | 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 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 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 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:** DORITEX **Lab Number:** L2110231

**Project Number:** 2180605 **Report Date:** 03/09/21

## SAMPLE RESULTS

Lab ID: L2110231-01 Date Collected: 03/02/21 11:01

Client ID: SUMP 1 Date Received: 03/02/21

Sample Location: 11075 WALDEN AVENUE Field Prep: Not Specified

Sample Depth:

| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.2 | J | 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 |
| 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** DORITEX
**Project Number:** 2180605
**Lab Number:** L2110231
**Report Date:** 03/09/21

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/05/21 09:50
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1471338-5 | | | | | |
| 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 | 0.14 |
| 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 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| 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 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** DORITEX
**Project Number:** 2180605
**Lab Number:** L2110231
**Report Date:** 03/09/21

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/05/21 09:50
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1471338-5 | | | | | |
| 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 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| 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 |
| 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 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | 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 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** DORITEX
**Project Number:** 2180605
**Lab Number:** L2110231
**Report Date:** 03/09/21

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/05/21 09:50
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1471338-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** DORITEX

**Project Number:** 2180605

**Lab Number:** L2110231

**Report Date:** 03/09/21

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1471338-3 WG1471338-4 | | | | | | | | |
| Methylene chloride | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloroform | 120 | | 100 | | 70-130 | 18 | | 20 |
| Carbon tetrachloride | 99 | | 110 | | 63-132 | 11 | | 20 |
| 1,2-Dichloropropane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Dibromochloromethane | 95 | | 100 | | 63-130 | 5 | | 20 |
| 1,1,2-Trichloroethane | 98 | | 110 | | 70-130 | 12 | | 20 |
| Tetrachloroethene | 96 | | 100 | | 70-130 | 4 | | 20 |
| Chlorobenzene | 99 | | 110 | | 75-130 | 11 | | 20 |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 96 | | 110 | | 70-130 | 14 | | 20 |
| cis-1,3-Dichloropropene | 98 | | 100 | | 70-130 | 2 | | 20 |
| Bromoform | 90 | | 93 | | 54-136 | 3 | | 20 |
| 1,1,2,2-Tetrachloroethane | 100 | | 110 | | 67-130 | 10 | | 20 |
| Benzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Toluene | 96 | | 100 | | 70-130 | 4 | | 20 |
| Ethylbenzene | 93 | | 100 | | 70-130 | 7 | | 20 |
| Chloromethane | 87 | | 92 | | 64-130 | 6 | | 20 |
| Bromomethane | 46 | | 54 | | 39-139 | 16 | | 20 |
| Vinyl chloride | 98 | | 100 | | 55-140 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** DORITEX

**Project Number:** 2180605

**Lab Number:** L2110231

**Report Date:** 03/09/21

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1471338-3 WG1471338-4 | | | | | | | | |
| Chloroethane | 120 | | 120 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 100 | | 110 | | 61-145 | 10 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 94 | | 100 | | 70-130 | 6 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 100 | | 110 | | 63-130 | 10 | | 20 |
| p/m-Xylene | 95 | | 105 | | 70-130 | 10 | | 20 |
| o-Xylene | 95 | | 105 | | 70-130 | 10 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Styrene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Dichlorodifluoromethane | 100 | | 100 | | 36-147 | 0 | | 20 |
| Acetone | 120 | | 100 | | 58-148 | 18 | | 20 |
| Carbon disulfide | 99 | | 100 | | 51-130 | 1 | | 20 |
| 2-Butanone | 95 | | 99 | | 63-138 | 4 | | 20 |
| 4-Methyl-2-pentanone | 100 | | 110 | | 59-130 | 10 | | 20 |
| 2-Hexanone | 96 | | 110 | | 57-130 | 14 | | 20 |
| Bromochloromethane | 110 | | 120 | | 70-130 | 9 | | 20 |
| 1,2-Dibromoethane | 99 | | 110 | | 70-130 | 11 | | 20 |
| 1,2-Dibromo-3-chloropropane | 90 | | 100 | | 41-144 | 11 | | 20 |
| Isopropylbenzene | 93 | | 100 | | 70-130 | 7 | | 20 |
| 1,2,3-Trichlorobenzene | 89 | | 100 | | 70-130 | 12 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** DORITEX
**Project Number:** 2180605

**Lab Number:** L2110231
**Report Date:** 03/09/21

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1471338-3 WG1471338-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 93 | | 110 | | 70-130 | 17 | | 20 |
| Methyl Acetate | 96 | | 100 | | 70-130 | 4 | | 20 |
| Cyclohexane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,4-Dioxane | 112 | | 128 | | 56-162 | 13 | | 20 |
| Freon-113 | 110 | | 120 | | 70-130 | 9 | | 20 |
| Methyl cyclohexane | 100 | | 110 | | 70-130 | 10 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 105 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 95 | | 70-130 |
| Dibromofluoromethane | 102 | | 98 | | 70-130 |

***Project Name:*** DORITEX
***Project Number:*** 2180605

***Lab Number:*** L2110231
***Report Date:*** 03/09/21

## *Sample Receipt and Container Information*

Were project specific reporting limits specified? YES

### *Cooler Information*

| *Cooler* | *Custody Seal* |
|---|---|
| A | Absent |

### *Container Information*

| *Container ID* | *Container Type* | *Cooler* | *Initial pH* | *Final pH* | *Temp deg C* | *Pres* | *Seal* | *Frozen Date/Time* | *Analysis(*)* |
|---|---|---|---|---|---|---|---|---|---|
| L2110231-01A | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2110231-01B | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |
| L2110231-01C | Vial HCl preserved | A | NA | | 2.4 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

## GLOSSARY

***Acronyms***

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

*Report Format: DU Report with 'J' Qualifiers*

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

***Footnotes***

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

***Terms***

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

***Data Qualifiers***

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

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

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

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

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

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

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

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

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

**J** - Estimated value. 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).

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

**ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format: DU Report with 'J' Qualifiers*

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

***Data Qualifiers***

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

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

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

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

| | | | |
|---|---|---|---|
| **Project Name:** | DORITEX | **Lab Number:** | L2110231 |
| **Project Number:** | 2180605 | **Report Date:** | 03/09/21 |

## REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

## LIMITATION OF LIABILITIES

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

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

# Certification Information

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

**Westborough Facility**
**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene
**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D/8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

**Westborough Facility:**

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

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

**Mansfield Facility:**

***Drinking Water***
**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
**EPA 522, EPA 537.1.**

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

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

# 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 of

Date Rec'd in Lab: 3/3/21

ALPHA Job #: L2110231

**Client Information**
Client: LaBella Associates D.P.C.
Address: 300 Pearl Street Suite 120
Phone: 716-840-2545
Fax:
Email: azebrowski; plabellapc.com

**Project Information**
Project Name: Dorsey
Project Location: 11075 Walden Avenue
Project # 2180005
(Use Project name as Project #) ☐
Project Manager: A. Zebrowski
ALPHAQuote #:

**Turn-Around Time**
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days: 5 business days

**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:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

**ANALYSIS**

**Sample Filtration**
☐ Done
☐ Lab to do
*Preservation*
☐ Lab to do
*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOCs 8260 | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|
| 10231-01 | Sump 1 | 3/2/2021 | 11:01 | GW | AZ | ✓ | | |
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| | | | | | | | | |

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 |
|---|---|---|---|
| | 3-2-21/1355 | | 3/02/21 13:55 |
| | 3/02/21 14:45 | | 3/3/21 01:15 |

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)

# Appendix D – Community Air Monitoring Plan Results

# Test 001

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 05/30/2019 |
| Instrument S/N | 8530132432 | Start Time | 13:45:51 |
| | | Stop Date | 05/30/2019 |
| | | Stop Time | 15:41:51 |
| | | Total Time | 0:01:56:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.024 mg/m^3 |
| Max | 0.037 mg/m^3 |
| Max Date | 05/30/2019 |
| Max Time | 15:38:51 |
| Min | 0.018 mg/m^3 |
| Min Date | 05/30/2019 |
| Min Time | 13:52:51 |
| TWA (8 hr) | 0.006 |
| TWA Start Date | 05/30/2019 |
| TWA Start Time | 13:45:51 |
| TWA End Time | 15:41:51 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 05/30/2019 | 13:46:51 | 0.023 |
| 2 | 05/30/2019 | 13:47:51 | 0.020 |
| 3 | 05/30/2019 | 13:48:51 | 0.021 |
| 4 | 05/30/2019 | 13:49:51 | 0.020 |
| 5 | 05/30/2019 | 13:50:51 | 0.020 |
| 6 | 05/30/2019 | 13:51:51 | 0.019 |
| 7 | 05/30/2019 | 13:52:51 | 0.018 |
| 8 | 05/30/2019 | 13:53:51 | 0.019 |
| 9 | 05/30/2019 | 13:54:51 | 0.018 |
| 10 | 05/30/2019 | 13:55:51 | 0.018 |
| 11 | 05/30/2019 | 13:56:51 | 0.018 |
| 12 | 05/30/2019 | 13:57:51 | 0.019 |
| 13 | 05/30/2019 | 13:58:51 | 0.019 |
| 14 | 05/30/2019 | 13:59:51 | 0.019 |
| 15 | 05/30/2019 | 14:00:51 | 0.019 |
| 16 | 05/30/2019 | 14:01:51 | 0.019 |
| 17 | 05/30/2019 | 14:02:51 | 0.018 |
| 18 | 05/30/2019 | 14:03:51 | 0.019 |
| 19 | 05/30/2019 | 14:04:51 | 0.020 |
| 20 | 05/30/2019 | 14:05:51 | 0.020 |
| 21 | 05/30/2019 | 14:06:51 | 0.020 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 05/30/2019 | 14:07:51 | 0.020 |
| 23 | 05/30/2019 | 14:08:51 | 0.020 |
| 24 | 05/30/2019 | 14:09:51 | 0.020 |
| 25 | 05/30/2019 | 14:10:51 | 0.020 |
| 26 | 05/30/2019 | 14:11:51 | 0.020 |
| 27 | 05/30/2019 | 14:12:51 | 0.020 |
| 28 | 05/30/2019 | 14:13:51 | 0.020 |
| 29 | 05/30/2019 | 14:14:51 | 0.020 |
| 30 | 05/30/2019 | 14:15:51 | 0.020 |
| 31 | 05/30/2019 | 14:16:51 | 0.020 |
| 32 | 05/30/2019 | 14:17:51 | 0.020 |
| 33 | 05/30/2019 | 14:18:51 | 0.020 |
| 34 | 05/30/2019 | 14:19:51 | 0.020 |
| 35 | 05/30/2019 | 14:20:51 | 0.020 |
| 36 | 05/30/2019 | 14:21:51 | 0.020 |
| 37 | 05/30/2019 | 14:22:51 | 0.021 |
| 38 | 05/30/2019 | 14:23:51 | 0.021 |
| 39 | 05/30/2019 | 14:24:51 | 0.021 |
| 40 | 05/30/2019 | 14:25:51 | 0.020 |
| 41 | 05/30/2019 | 14:26:51 | 0.020 |
| 42 | 05/30/2019 | 14:27:51 | 0.022 |
| 43 | 05/30/2019 | 14:28:51 | 0.023 |
| 44 | 05/30/2019 | 14:29:51 | 0.022 |
| 45 | 05/30/2019 | 14:30:51 | 0.021 |
| 46 | 05/30/2019 | 14:31:51 | 0.022 |
| 47 | 05/30/2019 | 14:32:51 | 0.022 |
| 48 | 05/30/2019 | 14:33:51 | 0.021 |
| 49 | 05/30/2019 | 14:34:51 | 0.021 |
| 50 | 05/30/2019 | 14:35:51 | 0.021 |
| 51 | 05/30/2019 | 14:36:51 | 0.021 |
| 52 | 05/30/2019 | 14:37:51 | 0.021 |
| 53 | 05/30/2019 | 14:38:51 | 0.021 |
| 54 | 05/30/2019 | 14:39:51 | 0.022 |
| 55 | 05/30/2019 | 14:40:51 | 0.022 |
| 56 | 05/30/2019 | 14:41:51 | 0.021 |
| 57 | 05/30/2019 | 14:42:51 | 0.021 |
| 58 | 05/30/2019 | 14:43:51 | 0.021 |
| 59 | 05/30/2019 | 14:44:51 | 0.022 |
| 60 | 05/30/2019 | 14:45:51 | 0.021 |
| 61 | 05/30/2019 | 14:46:51 | 0.022 |
| 62 | 05/30/2019 | 14:47:51 | 0.022 |
| 63 | 05/30/2019 | 14:48:51 | 0.022 |
| 64 | 05/30/2019 | 14:49:51 | 0.022 |
| 65 | 05/30/2019 | 14:50:51 | 0.022 |
| 66 | 05/30/2019 | 14:51:51 | 0.022 |
| 67 | 05/30/2019 | 14:52:51 | 0.023 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 05/30/2019 | 14:53:51 | 0.023 |
| 69 | 05/30/2019 | 14:54:51 | 0.023 |
| 70 | 05/30/2019 | 14:55:51 | 0.023 |
| 71 | 05/30/2019 | 14:56:51 | 0.022 |
| 72 | 05/30/2019 | 14:57:51 | 0.022 |
| 73 | 05/30/2019 | 14:58:51 | 0.024 |
| 74 | 05/30/2019 | 14:59:51 | 0.024 |
| 75 | 05/30/2019 | 15:00:51 | 0.023 |
| 76 | 05/30/2019 | 15:01:51 | 0.023 |
| 77 | 05/30/2019 | 15:02:51 | 0.023 |
| 78 | 05/30/2019 | 15:03:51 | 0.023 |
| 79 | 05/30/2019 | 15:04:51 | 0.023 |
| 80 | 05/30/2019 | 15:05:51 | 0.024 |
| 81 | 05/30/2019 | 15:06:51 | 0.025 |
| 82 | 05/30/2019 | 15:07:51 | 0.026 |
| 83 | 05/30/2019 | 15:08:51 | 0.025 |
| 84 | 05/30/2019 | 15:09:51 | 0.027 |
| 85 | 05/30/2019 | 15:10:51 | 0.027 |
| 86 | 05/30/2019 | 15:11:51 | 0.028 |
| 87 | 05/30/2019 | 15:12:51 | 0.029 |
| 88 | 05/30/2019 | 15:13:51 | 0.027 |
| 89 | 05/30/2019 | 15:14:51 | 0.028 |
| 90 | 05/30/2019 | 15:15:51 | 0.029 |
| 91 | 05/30/2019 | 15:16:51 | 0.029 |
| 92 | 05/30/2019 | 15:17:51 | 0.031 |
| 93 | 05/30/2019 | 15:18:51 | 0.031 |
| 94 | 05/30/2019 | 15:19:51 | 0.030 |
| 95 | 05/30/2019 | 15:20:51 | 0.029 |
| 96 | 05/30/2019 | 15:21:51 | 0.030 |
| 97 | 05/30/2019 | 15:22:51 | 0.029 |
| 98 | 05/30/2019 | 15:23:51 | 0.029 |
| 99 | 05/30/2019 | 15:24:51 | 0.029 |
| 100 | 05/30/2019 | 15:25:51 | 0.030 |
| 101 | 05/30/2019 | 15:26:51 | 0.030 |
| 102 | 05/30/2019 | 15:27:51 | 0.031 |
| 103 | 05/30/2019 | 15:28:51 | 0.032 |
| 104 | 05/30/2019 | 15:29:51 | 0.033 |
| 105 | 05/30/2019 | 15:30:51 | 0.032 |
| 106 | 05/30/2019 | 15:31:51 | 0.031 |
| 107 | 05/30/2019 | 15:32:51 | 0.033 |
| 108 | 05/30/2019 | 15:33:51 | 0.033 |
| 109 | 05/30/2019 | 15:34:51 | 0.033 |
| 110 | 05/30/2019 | 15:35:51 | 0.034 |
| 111 | 05/30/2019 | 15:36:51 | 0.036 |
| 112 | 05/30/2019 | 15:37:51 | 0.036 |
| 113 | 05/30/2019 | 15:38:51 | 0.037 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 05/30/2019 | 15:39:51 | 0.036 |
| 115 | 05/30/2019 | 15:40:51 | 0.036 |
| 116 | 05/30/2019 | 15:41:51 | 0.035 |

# Test 002

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 05/31/2019 |
| Instrument S/N | 8530132432 | Start Time | 10:38:17 |
| | | Stop Date | 05/31/2019 |
| | | Stop Time | 16:31:17 |
| | | Total Time | 0:05:53:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.009 mg/m^3 |
| Max | 0.015 mg/m^3 |
| Max Date | 05/31/2019 |
| Max Time | 13:30:17 |
| Min | 0.005 mg/m^3 |
| Min Date | 05/31/2019 |
| Min Time | 11:51:17 |
| TWA (8 hr) | 0.007 |
| TWA Start Date | 05/31/2019 |
| TWA Start Time | 10:38:17 |
| TWA End Time | 16:31:17 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 05/31/2019 | 10:39:17 | 0.012 |
| 2 | 05/31/2019 | 10:40:17 | 0.011 |
| 3 | 05/31/2019 | 10:41:17 | 0.010 |
| 4 | 05/31/2019 | 10:42:17 | 0.011 |
| 5 | 05/31/2019 | 10:43:17 | 0.010 |
| 6 | 05/31/2019 | 10:44:17 | 0.010 |
| 7 | 05/31/2019 | 10:45:17 | 0.010 |
| 8 | 05/31/2019 | 10:46:17 | 0.010 |
| 9 | 05/31/2019 | 10:47:17 | 0.010 |
| 10 | 05/31/2019 | 10:48:17 | 0.009 |
| 11 | 05/31/2019 | 10:49:17 | 0.009 |
| 12 | 05/31/2019 | 10:50:17 | 0.009 |
| 13 | 05/31/2019 | 10:51:17 | 0.009 |
| 14 | 05/31/2019 | 10:52:17 | 0.009 |
| 15 | 05/31/2019 | 10:53:17 | 0.009 |
| 16 | 05/31/2019 | 10:54:17 | 0.008 |
| 17 | 05/31/2019 | 10:55:17 | 0.008 |
| 18 | 05/31/2019 | 10:56:17 | 0.008 |
| 19 | 05/31/2019 | 10:57:17 | 0.008 |
| 20 | 05/31/2019 | 10:58:17 | 0.007 |
| 21 | 05/31/2019 | 10:59:17 | 0.008 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 05/31/2019 | 11:00:17 | 0.008 |
| 23 | 05/31/2019 | 11:01:17 | 0.008 |
| 24 | 05/31/2019 | 11:02:17 | 0.008 |
| 25 | 05/31/2019 | 11:03:17 | 0.009 |
| 26 | 05/31/2019 | 11:04:17 | 0.008 |
| 27 | 05/31/2019 | 11:05:17 | 0.008 |
| 28 | 05/31/2019 | 11:06:17 | 0.008 |
| 29 | 05/31/2019 | 11:07:17 | 0.008 |
| 30 | 05/31/2019 | 11:08:17 | 0.008 |
| 31 | 05/31/2019 | 11:09:17 | 0.008 |
| 32 | 05/31/2019 | 11:10:17 | 0.008 |
| 33 | 05/31/2019 | 11:11:17 | 0.008 |
| 34 | 05/31/2019 | 11:12:17 | 0.007 |
| 35 | 05/31/2019 | 11:13:17 | 0.007 |
| 36 | 05/31/2019 | 11:14:17 | 0.008 |
| 37 | 05/31/2019 | 11:15:17 | 0.008 |
| 38 | 05/31/2019 | 11:16:17 | 0.007 |
| 39 | 05/31/2019 | 11:17:17 | 0.008 |
| 40 | 05/31/2019 | 11:18:17 | 0.007 |
| 41 | 05/31/2019 | 11:19:17 | 0.008 |
| 42 | 05/31/2019 | 11:20:17 | 0.007 |
| 43 | 05/31/2019 | 11:21:17 | 0.007 |
| 44 | 05/31/2019 | 11:22:17 | 0.007 |
| 45 | 05/31/2019 | 11:23:17 | 0.007 |
| 46 | 05/31/2019 | 11:24:17 | 0.007 |
| 47 | 05/31/2019 | 11:25:17 | 0.006 |
| 48 | 05/31/2019 | 11:26:17 | 0.006 |
| 49 | 05/31/2019 | 11:27:17 | 0.007 |
| 50 | 05/31/2019 | 11:28:17 | 0.006 |
| 51 | 05/31/2019 | 11:29:17 | 0.006 |
| 52 | 05/31/2019 | 11:30:17 | 0.006 |
| 53 | 05/31/2019 | 11:31:17 | 0.006 |
| 54 | 05/31/2019 | 11:32:17 | 0.006 |
| 55 | 05/31/2019 | 11:33:17 | 0.007 |
| 56 | 05/31/2019 | 11:34:17 | 0.007 |
| 57 | 05/31/2019 | 11:35:17 | 0.006 |
| 58 | 05/31/2019 | 11:36:17 | 0.006 |
| 59 | 05/31/2019 | 11:37:17 | 0.007 |
| 60 | 05/31/2019 | 11:38:17 | 0.007 |
| 61 | 05/31/2019 | 11:39:17 | 0.006 |
| 62 | 05/31/2019 | 11:40:17 | 0.006 |
| 63 | 05/31/2019 | 11:41:17 | 0.007 |
| 64 | 05/31/2019 | 11:42:17 | 0.008 |
| 65 | 05/31/2019 | 11:43:17 | 0.007 |
| 66 | 05/31/2019 | 11:44:17 | 0.006 |
| 67 | 05/31/2019 | 11:45:17 | 0.006 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 05/31/2019 | 11:46:17 | 0.007 |
| 69 | 05/31/2019 | 11:47:17 | 0.006 |
| 70 | 05/31/2019 | 11:48:17 | 0.006 |
| 71 | 05/31/2019 | 11:49:17 | 0.006 |
| 72 | 05/31/2019 | 11:50:17 | 0.006 |
| 73 | 05/31/2019 | 11:51:17 | 0.005 |
| 74 | 05/31/2019 | 11:52:17 | 0.006 |
| 75 | 05/31/2019 | 11:53:17 | 0.006 |
| 76 | 05/31/2019 | 11:54:17 | 0.006 |
| 77 | 05/31/2019 | 11:55:17 | 0.006 |
| 78 | 05/31/2019 | 11:56:17 | 0.006 |
| 79 | 05/31/2019 | 11:57:17 | 0.006 |
| 80 | 05/31/2019 | 11:58:17 | 0.006 |
| 81 | 05/31/2019 | 11:59:17 | 0.006 |
| 82 | 05/31/2019 | 12:00:17 | 0.005 |
| 83 | 05/31/2019 | 12:01:17 | 0.007 |
| 84 | 05/31/2019 | 12:02:17 | 0.009 |
| 85 | 05/31/2019 | 12:03:17 | 0.007 |
| 86 | 05/31/2019 | 12:04:17 | 0.006 |
| 87 | 05/31/2019 | 12:05:17 | 0.006 |
| 88 | 05/31/2019 | 12:06:17 | 0.006 |
| 89 | 05/31/2019 | 12:07:17 | 0.006 |
| 90 | 05/31/2019 | 12:08:17 | 0.006 |
| 91 | 05/31/2019 | 12:09:17 | 0.006 |
| 92 | 05/31/2019 | 12:10:17 | 0.006 |
| 93 | 05/31/2019 | 12:11:17 | 0.006 |
| 94 | 05/31/2019 | 12:12:17 | 0.006 |
| 95 | 05/31/2019 | 12:13:17 | 0.005 |
| 96 | 05/31/2019 | 12:14:17 | 0.006 |
| 97 | 05/31/2019 | 12:15:17 | 0.006 |
| 98 | 05/31/2019 | 12:16:17 | 0.005 |
| 99 | 05/31/2019 | 12:17:17 | 0.006 |
| 100 | 05/31/2019 | 12:18:17 | 0.006 |
| 101 | 05/31/2019 | 12:19:17 | 0.005 |
| 102 | 05/31/2019 | 12:20:17 | 0.006 |
| 103 | 05/31/2019 | 12:21:17 | 0.006 |
| 104 | 05/31/2019 | 12:22:17 | 0.006 |
| 105 | 05/31/2019 | 12:23:17 | 0.006 |
| 106 | 05/31/2019 | 12:24:17 | 0.007 |
| 107 | 05/31/2019 | 12:25:17 | 0.007 |
| 108 | 05/31/2019 | 12:26:17 | 0.006 |
| 109 | 05/31/2019 | 12:27:17 | 0.006 |
| 110 | 05/31/2019 | 12:28:17 | 0.007 |
| 111 | 05/31/2019 | 12:29:17 | 0.007 |
| 112 | 05/31/2019 | 12:30:17 | 0.007 |
| 113 | 05/31/2019 | 12:31:17 | 0.006 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 05/31/2019 | 12:32:17 | 0.008 |
| 115 | 05/31/2019 | 12:33:17 | 0.007 |
| 116 | 05/31/2019 | 12:34:17 | 0.008 |
| 117 | 05/31/2019 | 12:35:17 | 0.009 |
| 118 | 05/31/2019 | 12:36:17 | 0.007 |
| 119 | 05/31/2019 | 12:37:17 | 0.007 |
| 120 | 05/31/2019 | 12:38:17 | 0.006 |
| 121 | 05/31/2019 | 12:39:17 | 0.007 |
| 122 | 05/31/2019 | 12:40:17 | 0.008 |
| 123 | 05/31/2019 | 12:41:17 | 0.007 |
| 124 | 05/31/2019 | 12:42:17 | 0.008 |
| 125 | 05/31/2019 | 12:43:17 | 0.007 |
| 126 | 05/31/2019 | 12:44:17 | 0.009 |
| 127 | 05/31/2019 | 12:45:17 | 0.011 |
| 128 | 05/31/2019 | 12:46:17 | 0.010 |
| 129 | 05/31/2019 | 12:47:17 | 0.007 |
| 130 | 05/31/2019 | 12:48:17 | 0.007 |
| 131 | 05/31/2019 | 12:49:17 | 0.007 |
| 132 | 05/31/2019 | 12:50:17 | 0.010 |
| 133 | 05/31/2019 | 12:51:17 | 0.014 |
| 134 | 05/31/2019 | 12:52:17 | 0.012 |
| 135 | 05/31/2019 | 12:53:17 | 0.009 |
| 136 | 05/31/2019 | 12:54:17 | 0.009 |
| 137 | 05/31/2019 | 12:55:17 | 0.008 |
| 138 | 05/31/2019 | 12:56:17 | 0.012 |
| 139 | 05/31/2019 | 12:57:17 | 0.009 |
| 140 | 05/31/2019 | 12:58:17 | 0.007 |
| 141 | 05/31/2019 | 12:59:17 | 0.008 |
| 142 | 05/31/2019 | 13:00:17 | 0.008 |
| 143 | 05/31/2019 | 13:01:17 | 0.009 |
| 144 | 05/31/2019 | 13:02:17 | 0.013 |
| 145 | 05/31/2019 | 13:03:17 | 0.011 |
| 146 | 05/31/2019 | 13:04:17 | 0.009 |
| 147 | 05/31/2019 | 13:05:17 | 0.008 |
| 148 | 05/31/2019 | 13:06:17 | 0.008 |
| 149 | 05/31/2019 | 13:07:17 | 0.007 |
| 150 | 05/31/2019 | 13:08:17 | 0.007 |
| 151 | 05/31/2019 | 13:09:17 | 0.007 |
| 152 | 05/31/2019 | 13:10:17 | 0.007 |
| 153 | 05/31/2019 | 13:11:17 | 0.007 |
| 154 | 05/31/2019 | 13:12:17 | 0.007 |
| 155 | 05/31/2019 | 13:13:17 | 0.007 |
| 156 | 05/31/2019 | 13:14:17 | 0.007 |
| 157 | 05/31/2019 | 13:15:17 | 0.007 |
| 158 | 05/31/2019 | 13:16:17 | 0.007 |
| 159 | 05/31/2019 | 13:17:17 | 0.007 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 05/31/2019 | 13:18:17 | 0.007 |
| 161 | 05/31/2019 | 13:19:17 | 0.007 |
| 162 | 05/31/2019 | 13:20:17 | 0.009 |
| 163 | 05/31/2019 | 13:21:17 | 0.010 |
| 164 | 05/31/2019 | 13:22:17 | 0.010 |
| 165 | 05/31/2019 | 13:23:17 | 0.009 |
| 166 | 05/31/2019 | 13:24:17 | 0.007 |
| 167 | 05/31/2019 | 13:25:17 | 0.008 |
| 168 | 05/31/2019 | 13:26:17 | 0.009 |
| 169 | 05/31/2019 | 13:27:17 | 0.010 |
| 170 | 05/31/2019 | 13:28:17 | 0.011 |
| 171 | 05/31/2019 | 13:29:17 | 0.014 |
| 172 | 05/31/2019 | 13:30:17 | 0.015 |
| 173 | 05/31/2019 | 13:31:17 | 0.014 |
| 174 | 05/31/2019 | 13:32:17 | 0.010 |
| 175 | 05/31/2019 | 13:33:17 | 0.012 |
| 176 | 05/31/2019 | 13:34:17 | 0.012 |
| 177 | 05/31/2019 | 13:35:17 | 0.009 |
| 178 | 05/31/2019 | 13:36:17 | 0.013 |
| 179 | 05/31/2019 | 13:37:17 | 0.009 |
| 180 | 05/31/2019 | 13:38:17 | 0.009 |
| 181 | 05/31/2019 | 13:39:17 | 0.009 |
| 182 | 05/31/2019 | 13:40:17 | 0.009 |
| 183 | 05/31/2019 | 13:41:17 | 0.010 |
| 184 | 05/31/2019 | 13:42:17 | 0.009 |
| 185 | 05/31/2019 | 13:43:17 | 0.008 |
| 186 | 05/31/2019 | 13:44:17 | 0.008 |
| 187 | 05/31/2019 | 13:45:17 | 0.009 |
| 188 | 05/31/2019 | 13:46:17 | 0.008 |
| 189 | 05/31/2019 | 13:47:17 | 0.008 |
| 190 | 05/31/2019 | 13:48:17 | 0.008 |
| 191 | 05/31/2019 | 13:49:17 | 0.008 |
| 192 | 05/31/2019 | 13:50:17 | 0.008 |
| 193 | 05/31/2019 | 13:51:17 | 0.008 |
| 194 | 05/31/2019 | 13:52:17 | 0.008 |
| 195 | 05/31/2019 | 13:53:17 | 0.008 |
| 196 | 05/31/2019 | 13:54:17 | 0.008 |
| 197 | 05/31/2019 | 13:55:17 | 0.008 |
| 198 | 05/31/2019 | 13:56:17 | 0.008 |
| 199 | 05/31/2019 | 13:57:17 | 0.008 |
| 200 | 05/31/2019 | 13:58:17 | 0.008 |
| 201 | 05/31/2019 | 13:59:17 | 0.009 |
| 202 | 05/31/2019 | 14:00:17 | 0.008 |
| 203 | 05/31/2019 | 14:01:17 | 0.008 |
| 204 | 05/31/2019 | 14:02:17 | 0.008 |
| 205 | 05/31/2019 | 14:03:17 | 0.008 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 05/31/2019 | 14:04:17 | 0.007 |
| 207 | 05/31/2019 | 14:05:17 | 0.008 |
| 208 | 05/31/2019 | 14:06:17 | 0.008 |
| 209 | 05/31/2019 | 14:07:17 | 0.008 |
| 210 | 05/31/2019 | 14:08:17 | 0.008 |
| 211 | 05/31/2019 | 14:09:17 | 0.008 |
| 212 | 05/31/2019 | 14:10:17 | 0.008 |
| 213 | 05/31/2019 | 14:11:17 | 0.008 |
| 214 | 05/31/2019 | 14:12:17 | 0.007 |
| 215 | 05/31/2019 | 14:13:17 | 0.007 |
| 216 | 05/31/2019 | 14:14:17 | 0.007 |
| 217 | 05/31/2019 | 14:15:17 | 0.008 |
| 218 | 05/31/2019 | 14:16:17 | 0.008 |
| 219 | 05/31/2019 | 14:17:17 | 0.007 |
| 220 | 05/31/2019 | 14:18:17 | 0.008 |
| 221 | 05/31/2019 | 14:19:17 | 0.009 |
| 222 | 05/31/2019 | 14:20:17 | 0.009 |
| 223 | 05/31/2019 | 14:21:17 | 0.008 |
| 224 | 05/31/2019 | 14:22:17 | 0.009 |
| 225 | 05/31/2019 | 14:23:17 | 0.009 |
| 226 | 05/31/2019 | 14:24:17 | 0.010 |
| 227 | 05/31/2019 | 14:25:17 | 0.009 |
| 228 | 05/31/2019 | 14:26:17 | 0.010 |
| 229 | 05/31/2019 | 14:27:17 | 0.009 |
| 230 | 05/31/2019 | 14:28:17 | 0.009 |
| 231 | 05/31/2019 | 14:29:17 | 0.010 |
| 232 | 05/31/2019 | 14:30:17 | 0.010 |
| 233 | 05/31/2019 | 14:31:17 | 0.010 |
| 234 | 05/31/2019 | 14:32:17 | 0.009 |
| 235 | 05/31/2019 | 14:33:17 | 0.010 |
| 236 | 05/31/2019 | 14:34:17 | 0.010 |
| 237 | 05/31/2019 | 14:35:17 | 0.010 |
| 238 | 05/31/2019 | 14:36:17 | 0.010 |
| 239 | 05/31/2019 | 14:37:17 | 0.009 |
| 240 | 05/31/2019 | 14:38:17 | 0.009 |
| 241 | 05/31/2019 | 14:39:17 | 0.009 |
| 242 | 05/31/2019 | 14:40:17 | 0.010 |
| 243 | 05/31/2019 | 14:41:17 | 0.009 |
| 244 | 05/31/2019 | 14:42:17 | 0.009 |
| 245 | 05/31/2019 | 14:43:17 | 0.009 |
| 246 | 05/31/2019 | 14:44:17 | 0.009 |
| 247 | 05/31/2019 | 14:45:17 | 0.010 |
| 248 | 05/31/2019 | 14:46:17 | 0.010 |
| 249 | 05/31/2019 | 14:47:17 | 0.010 |
| 250 | 05/31/2019 | 14:48:17 | 0.009 |
| 251 | 05/31/2019 | 14:49:17 | 0.010 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 05/31/2019 | 14:50:17 | 0.010 |
| 253 | 05/31/2019 | 14:51:17 | 0.009 |
| 254 | 05/31/2019 | 14:52:17 | 0.010 |
| 255 | 05/31/2019 | 14:53:17 | 0.010 |
| 256 | 05/31/2019 | 14:54:17 | 0.010 |
| 257 | 05/31/2019 | 14:55:17 | 0.010 |
| 258 | 05/31/2019 | 14:56:17 | 0.010 |
| 259 | 05/31/2019 | 14:57:17 | 0.010 |
| 260 | 05/31/2019 | 14:58:17 | 0.010 |
| 261 | 05/31/2019 | 14:59:17 | 0.010 |
| 262 | 05/31/2019 | 15:00:17 | 0.010 |
| 263 | 05/31/2019 | 15:01:17 | 0.010 |
| 264 | 05/31/2019 | 15:02:17 | 0.009 |
| 265 | 05/31/2019 | 15:03:17 | 0.010 |
| 266 | 05/31/2019 | 15:04:17 | 0.010 |
| 267 | 05/31/2019 | 15:05:17 | 0.010 |
| 268 | 05/31/2019 | 15:06:17 | 0.011 |
| 269 | 05/31/2019 | 15:07:17 | 0.010 |
| 270 | 05/31/2019 | 15:08:17 | 0.011 |
| 271 | 05/31/2019 | 15:09:17 | 0.010 |
| 272 | 05/31/2019 | 15:10:17 | 0.014 |
| 273 | 05/31/2019 | 15:11:17 | 0.012 |
| 274 | 05/31/2019 | 15:12:17 | 0.011 |
| 275 | 05/31/2019 | 15:13:17 | 0.011 |
| 276 | 05/31/2019 | 15:14:17 | 0.012 |
| 277 | 05/31/2019 | 15:15:17 | 0.012 |
| 278 | 05/31/2019 | 15:16:17 | 0.012 |
| 279 | 05/31/2019 | 15:17:17 | 0.012 |
| 280 | 05/31/2019 | 15:18:17 | 0.012 |
| 281 | 05/31/2019 | 15:19:17 | 0.012 |
| 282 | 05/31/2019 | 15:20:17 | 0.011 |
| 283 | 05/31/2019 | 15:21:17 | 0.011 |
| 284 | 05/31/2019 | 15:22:17 | 0.011 |
| 285 | 05/31/2019 | 15:23:17 | 0.011 |
| 286 | 05/31/2019 | 15:24:17 | 0.011 |
| 287 | 05/31/2019 | 15:25:17 | 0.012 |
| 288 | 05/31/2019 | 15:26:17 | 0.012 |
| 289 | 05/31/2019 | 15:27:17 | 0.012 |
| 290 | 05/31/2019 | 15:28:17 | 0.011 |
| 291 | 05/31/2019 | 15:29:17 | 0.012 |
| 292 | 05/31/2019 | 15:30:17 | 0.011 |
| 293 | 05/31/2019 | 15:31:17 | 0.011 |
| 294 | 05/31/2019 | 15:32:17 | 0.011 |
| 295 | 05/31/2019 | 15:33:17 | 0.012 |
| 296 | 05/31/2019 | 15:34:17 | 0.011 |
| 297 | 05/31/2019 | 15:35:17 | 0.011 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 05/31/2019 | 15:36:17 | 0.011 |
| 299 | 05/31/2019 | 15:37:17 | 0.011 |
| 300 | 05/31/2019 | 15:38:17 | 0.011 |
| 301 | 05/31/2019 | 15:39:17 | 0.011 |
| 302 | 05/31/2019 | 15:40:17 | 0.011 |
| 303 | 05/31/2019 | 15:41:17 | 0.011 |
| 304 | 05/31/2019 | 15:42:17 | 0.012 |
| 305 | 05/31/2019 | 15:43:17 | 0.012 |
| 306 | 05/31/2019 | 15:44:17 | 0.011 |
| 307 | 05/31/2019 | 15:45:17 | 0.012 |
| 308 | 05/31/2019 | 15:46:17 | 0.012 |
| 309 | 05/31/2019 | 15:47:17 | 0.012 |
| 310 | 05/31/2019 | 15:48:17 | 0.012 |
| 311 | 05/31/2019 | 15:49:17 | 0.012 |
| 312 | 05/31/2019 | 15:50:17 | 0.012 |
| 313 | 05/31/2019 | 15:51:17 | 0.012 |
| 314 | 05/31/2019 | 15:52:17 | 0.013 |
| 315 | 05/31/2019 | 15:53:17 | 0.012 |
| 316 | 05/31/2019 | 15:54:17 | 0.012 |
| 317 | 05/31/2019 | 15:55:17 | 0.013 |
| 318 | 05/31/2019 | 15:56:17 | 0.013 |
| 319 | 05/31/2019 | 15:57:17 | 0.012 |
| 320 | 05/31/2019 | 15:58:17 | 0.012 |
| 321 | 05/31/2019 | 15:59:17 | 0.012 |
| 322 | 05/31/2019 | 16:00:17 | 0.012 |
| 323 | 05/31/2019 | 16:01:17 | 0.013 |
| 324 | 05/31/2019 | 16:02:17 | 0.013 |
| 325 | 05/31/2019 | 16:03:17 | 0.012 |
| 326 | 05/31/2019 | 16:04:17 | 0.012 |
| 327 | 05/31/2019 | 16:05:17 | 0.013 |
| 328 | 05/31/2019 | 16:06:17 | 0.013 |
| 329 | 05/31/2019 | 16:07:17 | 0.013 |
| 330 | 05/31/2019 | 16:08:17 | 0.013 |
| 331 | 05/31/2019 | 16:09:17 | 0.013 |
| 332 | 05/31/2019 | 16:10:17 | 0.013 |
| 333 | 05/31/2019 | 16:11:17 | 0.013 |
| 334 | 05/31/2019 | 16:12:17 | 0.013 |
| 335 | 05/31/2019 | 16:13:17 | 0.013 |
| 336 | 05/31/2019 | 16:14:17 | 0.013 |
| 337 | 05/31/2019 | 16:15:17 | 0.013 |
| 338 | 05/31/2019 | 16:16:17 | 0.014 |
| 339 | 05/31/2019 | 16:17:17 | 0.014 |
| 340 | 05/31/2019 | 16:18:17 | 0.014 |
| 341 | 05/31/2019 | 16:19:17 | 0.015 |
| 342 | 05/31/2019 | 16:20:17 | 0.014 |
| 343 | 05/31/2019 | 16:21:17 | 0.015 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 344 | 05/31/2019 | 16:22:17 | 0.015 |
| 345 | 05/31/2019 | 16:23:17 | 0.014 |
| 346 | 05/31/2019 | 16:24:17 | 0.015 |
| 347 | 05/31/2019 | 16:25:17 | 0.014 |
| 348 | 05/31/2019 | 16:26:17 | 0.014 |
| 349 | 05/31/2019 | 16:27:17 | 0.014 |
| 350 | 05/31/2019 | 16:28:17 | 0.014 |
| 351 | 05/31/2019 | 16:29:17 | 0.013 |
| 352 | 05/31/2019 | 16:30:17 | 0.013 |
| 353 | 05/31/2019 | 16:31:17 | 0.014 |

# Test 003

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/03/2019 |
| Instrument S/N | 8530132432 | Start Time | 08:01:04 |
| | | Stop Date | 06/03/2019 |
| | | Stop Time | 14:45:04 |
| | | Total Time | 0:06:44:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.065 mg/m^3 |
| Max | 0.330 mg/m^3 |
| Max Date | 06/03/2019 |
| Max Time | 10:52:04 |
| Min | 0.003 mg/m^3 |
| Min Date | 06/03/2019 |
| Min Time | 08:03:04 |
| TWA (8 hr) | 0.055 |
| TWA Start Date | 06/03/2019 |
| TWA Start Time | 08:01:04 |
| TWA End Time | 14:45:04 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/03/2019 | 08:02:04 | 0.025 |
| 2 | 06/03/2019 | 08:03:04 | 0.003 |
| 3 | 06/03/2019 | 08:04:04 | 0.004 |
| 4 | 06/03/2019 | 08:05:04 | 0.003 |
| 5 | 06/03/2019 | 08:06:04 | 0.003 |
| 6 | 06/03/2019 | 08:07:04 | 0.003 |
| 7 | 06/03/2019 | 08:08:04 | 0.004 |
| 8 | 06/03/2019 | 08:09:04 | 0.003 |
| 9 | 06/03/2019 | 08:10:04 | 0.004 |
| 10 | 06/03/2019 | 08:11:04 | 0.003 |
| 11 | 06/03/2019 | 08:12:04 | 0.014 |
| 12 | 06/03/2019 | 08:13:04 | 0.039 |
| 13 | 06/03/2019 | 08:14:04 | 0.046 |
| 14 | 06/03/2019 | 08:15:04 | 0.106 |
| 15 | 06/03/2019 | 08:16:04 | 0.031 |
| 16 | 06/03/2019 | 08:17:04 | 0.032 |
| 17 | 06/03/2019 | 08:18:04 | 0.036 |
| 18 | 06/03/2019 | 08:19:04 | 0.008 |
| 19 | 06/03/2019 | 08:20:04 | 0.175 |
| 20 | 06/03/2019 | 08:21:04 | 0.118 |
| 21 | 06/03/2019 | 08:22:04 | 0.131 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 06/03/2019 | 08:23:04 | 0.015 |
| 23 | 06/03/2019 | 08:24:04 | 0.005 |
| 24 | 06/03/2019 | 08:25:04 | 0.012 |
| 25 | 06/03/2019 | 08:26:04 | 0.086 |
| 26 | 06/03/2019 | 08:27:04 | 0.113 |
| 27 | 06/03/2019 | 08:28:04 | 0.092 |
| 28 | 06/03/2019 | 08:29:04 | 0.034 |
| 29 | 06/03/2019 | 08:30:04 | 0.048 |
| 30 | 06/03/2019 | 08:31:04 | 0.230 |
| 31 | 06/03/2019 | 08:32:04 | 0.033 |
| 32 | 06/03/2019 | 08:33:04 | 0.056 |
| 33 | 06/03/2019 | 08:34:04 | 0.035 |
| 34 | 06/03/2019 | 08:35:04 | 0.057 |
| 35 | 06/03/2019 | 08:36:04 | 0.048 |
| 36 | 06/03/2019 | 08:37:04 | 0.032 |
| 37 | 06/03/2019 | 08:38:04 | 0.060 |
| 38 | 06/03/2019 | 08:39:04 | 0.038 |
| 39 | 06/03/2019 | 08:40:04 | 0.054 |
| 40 | 06/03/2019 | 08:41:04 | 0.042 |
| 41 | 06/03/2019 | 08:42:04 | 0.047 |
| 42 | 06/03/2019 | 08:43:04 | 0.033 |
| 43 | 06/03/2019 | 08:44:04 | 0.048 |
| 44 | 06/03/2019 | 08:45:04 | 0.042 |
| 45 | 06/03/2019 | 08:46:04 | 0.061 |
| 46 | 06/03/2019 | 08:47:04 | 0.083 |
| 47 | 06/03/2019 | 08:48:04 | 0.013 |
| 48 | 06/03/2019 | 08:49:04 | 0.006 |
| 49 | 06/03/2019 | 08:50:04 | 0.006 |
| 50 | 06/03/2019 | 08:51:04 | 0.011 |
| 51 | 06/03/2019 | 08:52:04 | 0.009 |
| 52 | 06/03/2019 | 08:53:04 | 0.012 |
| 53 | 06/03/2019 | 08:54:04 | 0.018 |
| 54 | 06/03/2019 | 08:55:04 | 0.005 |
| 55 | 06/03/2019 | 08:56:04 | 0.009 |
| 56 | 06/03/2019 | 08:57:04 | 0.044 |
| 57 | 06/03/2019 | 08:58:04 | 0.070 |
| 58 | 06/03/2019 | 08:59:04 | 0.012 |
| 59 | 06/03/2019 | 09:00:04 | 0.045 |
| 60 | 06/03/2019 | 09:01:04 | 0.007 |
| 61 | 06/03/2019 | 09:02:04 | 0.004 |
| 62 | 06/03/2019 | 09:03:04 | 0.014 |
| 63 | 06/03/2019 | 09:04:04 | 0.008 |
| 64 | 06/03/2019 | 09:05:04 | 0.007 |
| 65 | 06/03/2019 | 09:06:04 | 0.005 |
| 66 | 06/03/2019 | 09:07:04 | 0.009 |
| 67 | 06/03/2019 | 09:08:04 | 0.013 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 06/03/2019 | 09:09:04 | 0.004 |
| 69 | 06/03/2019 | 09:10:04 | 0.013 |
| 70 | 06/03/2019 | 09:11:04 | 0.009 |
| 71 | 06/03/2019 | 09:12:04 | 0.006 |
| 72 | 06/03/2019 | 09:13:04 | 0.008 |
| 73 | 06/03/2019 | 09:14:04 | 0.006 |
| 74 | 06/03/2019 | 09:15:04 | 0.004 |
| 75 | 06/03/2019 | 09:16:04 | 0.004 |
| 76 | 06/03/2019 | 09:17:04 | 0.007 |
| 77 | 06/03/2019 | 09:18:04 | 0.004 |
| 78 | 06/03/2019 | 09:19:04 | 0.005 |
| 79 | 06/03/2019 | 09:20:04 | 0.005 |
| 80 | 06/03/2019 | 09:21:04 | 0.005 |
| 81 | 06/03/2019 | 09:22:04 | 0.005 |
| 82 | 06/03/2019 | 09:23:04 | 0.006 |
| 83 | 06/03/2019 | 09:24:04 | 0.015 |
| 84 | 06/03/2019 | 09:25:04 | 0.017 |
| 85 | 06/03/2019 | 09:26:04 | 0.013 |
| 86 | 06/03/2019 | 09:27:04 | 0.005 |
| 87 | 06/03/2019 | 09:28:04 | 0.004 |
| 88 | 06/03/2019 | 09:29:04 | 0.004 |
| 89 | 06/03/2019 | 09:30:04 | 0.007 |
| 90 | 06/03/2019 | 09:31:04 | 0.024 |
| 91 | 06/03/2019 | 09:32:04 | 0.008 |
| 92 | 06/03/2019 | 09:33:04 | 0.007 |
| 93 | 06/03/2019 | 09:34:04 | 0.007 |
| 94 | 06/03/2019 | 09:35:04 | 0.007 |
| 95 | 06/03/2019 | 09:36:04 | 0.007 |
| 96 | 06/03/2019 | 09:37:04 | 0.007 |
| 97 | 06/03/2019 | 09:38:04 | 0.006 |
| 98 | 06/03/2019 | 09:39:04 | 0.007 |
| 99 | 06/03/2019 | 09:40:04 | 0.011 |
| 100 | 06/03/2019 | 09:41:04 | 0.011 |
| 101 | 06/03/2019 | 09:42:04 | 0.017 |
| 102 | 06/03/2019 | 09:43:04 | 0.029 |
| 103 | 06/03/2019 | 09:44:04 | 0.018 |
| 104 | 06/03/2019 | 09:45:04 | 0.030 |
| 105 | 06/03/2019 | 09:46:04 | 0.073 |
| 106 | 06/03/2019 | 09:47:04 | 0.034 |
| 107 | 06/03/2019 | 09:48:04 | 0.014 |
| 108 | 06/03/2019 | 09:49:04 | 0.109 |
| 109 | 06/03/2019 | 09:50:04 | 0.092 |
| 110 | 06/03/2019 | 09:51:04 | 0.024 |
| 111 | 06/03/2019 | 09:52:04 | 0.096 |
| 112 | 06/03/2019 | 09:53:04 | 0.066 |
| 113 | 06/03/2019 | 09:54:04 | 0.197 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 06/03/2019 | 09:55:04 | 0.091 |
| 115 | 06/03/2019 | 09:56:04 | 0.021 |
| 116 | 06/03/2019 | 09:57:04 | 0.032 |
| 117 | 06/03/2019 | 09:58:04 | 0.012 |
| 118 | 06/03/2019 | 09:59:04 | 0.039 |
| 119 | 06/03/2019 | 10:00:04 | 0.045 |
| 120 | 06/03/2019 | 10:01:04 | 0.008 |
| 121 | 06/03/2019 | 10:02:04 | 0.008 |
| 122 | 06/03/2019 | 10:03:04 | 0.014 |
| 123 | 06/03/2019 | 10:04:04 | 0.008 |
| 124 | 06/03/2019 | 10:05:04 | 0.007 |
| 125 | 06/03/2019 | 10:06:04 | 0.007 |
| 126 | 06/03/2019 | 10:07:04 | 0.007 |
| 127 | 06/03/2019 | 10:08:04 | 0.007 |
| 128 | 06/03/2019 | 10:09:04 | 0.008 |
| 129 | 06/03/2019 | 10:10:04 | 0.013 |
| 130 | 06/03/2019 | 10:11:04 | 0.018 |
| 131 | 06/03/2019 | 10:12:04 | 0.018 |
| 132 | 06/03/2019 | 10:13:04 | 0.011 |
| 133 | 06/03/2019 | 10:14:04 | 0.008 |
| 134 | 06/03/2019 | 10:15:04 | 0.018 |
| 135 | 06/03/2019 | 10:16:04 | 0.011 |
| 136 | 06/03/2019 | 10:17:04 | 0.015 |
| 137 | 06/03/2019 | 10:18:04 | 0.009 |
| 138 | 06/03/2019 | 10:19:04 | 0.015 |
| 139 | 06/03/2019 | 10:20:04 | 0.011 |
| 140 | 06/03/2019 | 10:21:04 | 0.029 |
| 141 | 06/03/2019 | 10:22:04 | 0.013 |
| 142 | 06/03/2019 | 10:23:04 | 0.011 |
| 143 | 06/03/2019 | 10:24:04 | 0.036 |
| 144 | 06/03/2019 | 10:25:04 | 0.127 |
| 145 | 06/03/2019 | 10:26:04 | 0.010 |
| 146 | 06/03/2019 | 10:27:04 | 0.010 |
| 147 | 06/03/2019 | 10:28:04 | 0.011 |
| 148 | 06/03/2019 | 10:29:04 | 0.045 |
| 149 | 06/03/2019 | 10:30:04 | 0.013 |
| 150 | 06/03/2019 | 10:31:04 | 0.016 |
| 151 | 06/03/2019 | 10:32:04 | 0.019 |
| 152 | 06/03/2019 | 10:33:04 | 0.045 |
| 153 | 06/03/2019 | 10:34:04 | 0.106 |
| 154 | 06/03/2019 | 10:35:04 | 0.052 |
| 155 | 06/03/2019 | 10:36:04 | 0.023 |
| 156 | 06/03/2019 | 10:37:04 | 0.133 |
| 157 | 06/03/2019 | 10:38:04 | 0.251 |
| 158 | 06/03/2019 | 10:39:04 | 0.121 |
| 159 | 06/03/2019 | 10:40:04 | 0.020 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 06/03/2019 | 10:41:04 | 0.047 |
| 161 | 06/03/2019 | 10:42:04 | 0.065 |
| 162 | 06/03/2019 | 10:43:04 | 0.034 |
| 163 | 06/03/2019 | 10:44:04 | 0.011 |
| 164 | 06/03/2019 | 10:45:04 | 0.027 |
| 165 | 06/03/2019 | 10:46:04 | 0.028 |
| 166 | 06/03/2019 | 10:47:04 | 0.013 |
| 167 | 06/03/2019 | 10:48:04 | 0.015 |
| 168 | 06/03/2019 | 10:49:04 | 0.011 |
| 169 | 06/03/2019 | 10:50:04 | 0.011 |
| 170 | 06/03/2019 | 10:51:04 | 0.043 |
| 171 | 06/03/2019 | 10:52:04 | 0.330 |
| 172 | 06/03/2019 | 10:53:04 | 0.182 |
| 173 | 06/03/2019 | 10:54:04 | 0.229 |
| 174 | 06/03/2019 | 10:55:04 | 0.037 |
| 175 | 06/03/2019 | 10:56:04 | 0.160 |
| 176 | 06/03/2019 | 10:57:04 | 0.311 |
| 177 | 06/03/2019 | 10:58:04 | 0.038 |
| 178 | 06/03/2019 | 10:59:04 | 0.061 |
| 179 | 06/03/2019 | 11:00:04 | 0.192 |
| 180 | 06/03/2019 | 11:01:04 | 0.114 |
| 181 | 06/03/2019 | 11:02:04 | 0.054 |
| 182 | 06/03/2019 | 11:03:04 | 0.019 |
| 183 | 06/03/2019 | 11:04:04 | 0.014 |
| 184 | 06/03/2019 | 11:05:04 | 0.013 |
| 185 | 06/03/2019 | 11:06:04 | 0.016 |
| 186 | 06/03/2019 | 11:07:04 | 0.016 |
| 187 | 06/03/2019 | 11:08:04 | 0.063 |
| 188 | 06/03/2019 | 11:09:04 | 0.014 |
| 189 | 06/03/2019 | 11:10:04 | 0.015 |
| 190 | 06/03/2019 | 11:11:04 | 0.085 |
| 191 | 06/03/2019 | 11:12:04 | 0.064 |
| 192 | 06/03/2019 | 11:13:04 | 0.053 |
| 193 | 06/03/2019 | 11:14:04 | 0.226 |
| 194 | 06/03/2019 | 11:15:04 | 0.298 |
| 195 | 06/03/2019 | 11:16:04 | 0.253 |
| 196 | 06/03/2019 | 11:17:04 | 0.235 |
| 197 | 06/03/2019 | 11:18:04 | 0.033 |
| 198 | 06/03/2019 | 11:19:04 | 0.045 |
| 199 | 06/03/2019 | 11:20:04 | 0.143 |
| 200 | 06/03/2019 | 11:21:04 | 0.251 |
| 201 | 06/03/2019 | 11:22:04 | 0.071 |
| 202 | 06/03/2019 | 11:23:04 | 0.040 |
| 203 | 06/03/2019 | 11:24:04 | 0.062 |
| 204 | 06/03/2019 | 11:25:04 | 0.097 |
| 205 | 06/03/2019 | 11:26:04 | 0.043 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 06/03/2019 | 11:27:04 | 0.013 |
| 207 | 06/03/2019 | 11:28:04 | 0.011 |
| 208 | 06/03/2019 | 11:29:04 | 0.031 |
| 209 | 06/03/2019 | 11:30:04 | 0.012 |
| 210 | 06/03/2019 | 11:31:04 | 0.014 |
| 211 | 06/03/2019 | 11:32:04 | 0.018 |
| 212 | 06/03/2019 | 11:33:04 | 0.010 |
| 213 | 06/03/2019 | 11:34:04 | 0.011 |
| 214 | 06/03/2019 | 11:35:04 | 0.083 |
| 215 | 06/03/2019 | 11:36:04 | 0.194 |
| 216 | 06/03/2019 | 11:37:04 | 0.267 |
| 217 | 06/03/2019 | 11:38:04 | 0.127 |
| 218 | 06/03/2019 | 11:39:04 | 0.080 |
| 219 | 06/03/2019 | 11:40:04 | 0.172 |
| 220 | 06/03/2019 | 11:41:04 | 0.213 |
| 221 | 06/03/2019 | 11:42:04 | 0.080 |
| 222 | 06/03/2019 | 11:43:04 | 0.014 |
| 223 | 06/03/2019 | 11:44:04 | 0.053 |
| 224 | 06/03/2019 | 11:45:04 | 0.019 |
| 225 | 06/03/2019 | 11:46:04 | 0.116 |
| 226 | 06/03/2019 | 11:47:04 | 0.050 |
| 227 | 06/03/2019 | 11:48:04 | 0.120 |
| 228 | 06/03/2019 | 11:49:04 | 0.075 |
| 229 | 06/03/2019 | 11:50:04 | 0.154 |
| 230 | 06/03/2019 | 11:51:04 | 0.028 |
| 231 | 06/03/2019 | 11:52:04 | 0.036 |
| 232 | 06/03/2019 | 11:53:04 | 0.046 |
| 233 | 06/03/2019 | 11:54:04 | 0.054 |
| 234 | 06/03/2019 | 11:55:04 | 0.051 |
| 235 | 06/03/2019 | 11:56:04 | 0.017 |
| 236 | 06/03/2019 | 11:57:04 | 0.011 |
| 237 | 06/03/2019 | 11:58:04 | 0.011 |
| 238 | 06/03/2019 | 11:59:04 | 0.013 |
| 239 | 06/03/2019 | 12:00:04 | 0.013 |
| 240 | 06/03/2019 | 12:01:04 | 0.030 |
| 241 | 06/03/2019 | 12:02:04 | 0.013 |
| 242 | 06/03/2019 | 12:03:04 | 0.024 |
| 243 | 06/03/2019 | 12:04:04 | 0.070 |
| 244 | 06/03/2019 | 12:05:04 | 0.013 |
| 245 | 06/03/2019 | 12:06:04 | 0.008 |
| 246 | 06/03/2019 | 12:07:04 | 0.008 |
| 247 | 06/03/2019 | 12:08:04 | 0.006 |
| 248 | 06/03/2019 | 12:09:04 | 0.005 |
| 249 | 06/03/2019 | 12:10:04 | 0.005 |
| 250 | 06/03/2019 | 12:11:04 | 0.029 |
| 251 | 06/03/2019 | 12:12:04 | 0.007 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 06/03/2019 | 12:13:04 | 0.050 |
| 253 | 06/03/2019 | 12:14:04 | 0.019 |
| 254 | 06/03/2019 | 12:15:04 | 0.076 |
| 255 | 06/03/2019 | 12:16:04 | 0.014 |
| 256 | 06/03/2019 | 12:17:04 | 0.014 |
| 257 | 06/03/2019 | 12:18:04 | 0.013 |
| 258 | 06/03/2019 | 12:19:04 | 0.008 |
| 259 | 06/03/2019 | 12:20:04 | 0.008 |
| 260 | 06/03/2019 | 12:21:04 | 0.007 |
| 261 | 06/03/2019 | 12:22:04 | 0.008 |
| 262 | 06/03/2019 | 12:23:04 | 0.007 |
| 263 | 06/03/2019 | 12:24:04 | 0.008 |
| 264 | 06/03/2019 | 12:25:04 | 0.080 |
| 265 | 06/03/2019 | 12:26:04 | 0.018 |
| 266 | 06/03/2019 | 12:27:04 | 0.013 |
| 267 | 06/03/2019 | 12:28:04 | 0.010 |
| 268 | 06/03/2019 | 12:29:04 | 0.008 |
| 269 | 06/03/2019 | 12:30:04 | 0.011 |
| 270 | 06/03/2019 | 12:31:04 | 0.010 |
| 271 | 06/03/2019 | 12:32:04 | 0.036 |
| 272 | 06/03/2019 | 12:33:04 | 0.048 |
| 273 | 06/03/2019 | 12:34:04 | 0.093 |
| 274 | 06/03/2019 | 12:35:04 | 0.213 |
| 275 | 06/03/2019 | 12:36:04 | 0.200 |
| 276 | 06/03/2019 | 12:37:04 | 0.250 |
| 277 | 06/03/2019 | 12:38:04 | 0.161 |
| 278 | 06/03/2019 | 12:39:04 | 0.141 |
| 279 | 06/03/2019 | 12:40:04 | 0.202 |
| 280 | 06/03/2019 | 12:41:04 | 0.199 |
| 281 | 06/03/2019 | 12:42:04 | 0.068 |
| 282 | 06/03/2019 | 12:43:04 | 0.121 |
| 283 | 06/03/2019 | 12:44:04 | 0.034 |
| 284 | 06/03/2019 | 12:45:04 | 0.018 |
| 285 | 06/03/2019 | 12:46:04 | 0.110 |
| 286 | 06/03/2019 | 12:47:04 | 0.079 |
| 287 | 06/03/2019 | 12:48:04 | 0.019 |
| 288 | 06/03/2019 | 12:49:04 | 0.111 |
| 289 | 06/03/2019 | 12:50:04 | 0.061 |
| 290 | 06/03/2019 | 12:51:04 | 0.067 |
| 291 | 06/03/2019 | 12:52:04 | 0.016 |
| 292 | 06/03/2019 | 12:53:04 | 0.038 |
| 293 | 06/03/2019 | 12:54:04 | 0.056 |
| 294 | 06/03/2019 | 12:55:04 | 0.077 |
| 295 | 06/03/2019 | 12:56:04 | 0.057 |
| 296 | 06/03/2019 | 12:57:04 | 0.049 |
| 297 | 06/03/2019 | 12:58:04 | 0.027 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 06/03/2019 | 12:59:04 | 0.012 |
| 299 | 06/03/2019 | 13:00:04 | 0.031 |
| 300 | 06/03/2019 | 13:01:04 | 0.040 |
| 301 | 06/03/2019 | 13:02:04 | 0.022 |
| 302 | 06/03/2019 | 13:03:04 | 0.017 |
| 303 | 06/03/2019 | 13:04:04 | 0.017 |
| 304 | 06/03/2019 | 13:05:04 | 0.024 |
| 305 | 06/03/2019 | 13:06:04 | 0.014 |
| 306 | 06/03/2019 | 13:07:04 | 0.010 |
| 307 | 06/03/2019 | 13:08:04 | 0.014 |
| 308 | 06/03/2019 | 13:09:04 | 0.014 |
| 309 | 06/03/2019 | 13:10:04 | 0.017 |
| 310 | 06/03/2019 | 13:11:04 | 0.015 |
| 311 | 06/03/2019 | 13:12:04 | 0.013 |
| 312 | 06/03/2019 | 13:13:04 | 0.013 |
| 313 | 06/03/2019 | 13:14:04 | 0.009 |
| 314 | 06/03/2019 | 13:15:04 | 0.011 |
| 315 | 06/03/2019 | 13:16:04 | 0.020 |
| 316 | 06/03/2019 | 13:17:04 | 0.024 |
| 317 | 06/03/2019 | 13:18:04 | 0.078 |
| 318 | 06/03/2019 | 13:19:04 | 0.082 |
| 319 | 06/03/2019 | 13:20:04 | 0.124 |
| 320 | 06/03/2019 | 13:21:04 | 0.168 |
| 321 | 06/03/2019 | 13:22:04 | 0.139 |
| 322 | 06/03/2019 | 13:23:04 | 0.150 |
| 323 | 06/03/2019 | 13:24:04 | 0.028 |
| 324 | 06/03/2019 | 13:25:04 | 0.127 |
| 325 | 06/03/2019 | 13:26:04 | 0.094 |
| 326 | 06/03/2019 | 13:27:04 | 0.049 |
| 327 | 06/03/2019 | 13:28:04 | 0.028 |
| 328 | 06/03/2019 | 13:29:04 | 0.054 |
| 329 | 06/03/2019 | 13:30:04 | 0.092 |
| 330 | 06/03/2019 | 13:31:04 | 0.133 |
| 331 | 06/03/2019 | 13:32:04 | 0.154 |
| 332 | 06/03/2019 | 13:33:04 | 0.117 |
| 333 | 06/03/2019 | 13:34:04 | 0.159 |
| 334 | 06/03/2019 | 13:35:04 | 0.069 |
| 335 | 06/03/2019 | 13:36:04 | 0.035 |
| 336 | 06/03/2019 | 13:37:04 | 0.078 |
| 337 | 06/03/2019 | 13:38:04 | 0.063 |
| 338 | 06/03/2019 | 13:39:04 | 0.053 |
| 339 | 06/03/2019 | 13:40:04 | 0.117 |
| 340 | 06/03/2019 | 13:41:04 | 0.068 |
| 341 | 06/03/2019 | 13:42:04 | 0.039 |
| 342 | 06/03/2019 | 13:43:04 | 0.184 |
| 343 | 06/03/2019 | 13:44:04 | 0.128 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 344 | 06/03/2019 | 13:45:04 | 0.178 |
| 345 | 06/03/2019 | 13:46:04 | 0.151 |
| 346 | 06/03/2019 | 13:47:04 | 0.133 |
| 347 | 06/03/2019 | 13:48:04 | 0.119 |
| 348 | 06/03/2019 | 13:49:04 | 0.176 |
| 349 | 06/03/2019 | 13:50:04 | 0.077 |
| 350 | 06/03/2019 | 13:51:04 | 0.144 |
| 351 | 06/03/2019 | 13:52:04 | 0.156 |
| 352 | 06/03/2019 | 13:53:04 | 0.140 |
| 353 | 06/03/2019 | 13:54:04 | 0.098 |
| 354 | 06/03/2019 | 13:55:04 | 0.179 |
| 355 | 06/03/2019 | 13:56:04 | 0.257 |
| 356 | 06/03/2019 | 13:57:04 | 0.083 |
| 357 | 06/03/2019 | 13:58:04 | 0.209 |
| 358 | 06/03/2019 | 13:59:04 | 0.190 |
| 359 | 06/03/2019 | 14:00:04 | 0.188 |
| 360 | 06/03/2019 | 14:01:04 | 0.144 |
| 361 | 06/03/2019 | 14:02:04 | 0.115 |
| 362 | 06/03/2019 | 14:03:04 | 0.183 |
| 363 | 06/03/2019 | 14:04:04 | 0.115 |
| 364 | 06/03/2019 | 14:05:04 | 0.183 |
| 365 | 06/03/2019 | 14:06:04 | 0.190 |
| 366 | 06/03/2019 | 14:07:04 | 0.131 |
| 367 | 06/03/2019 | 14:08:04 | 0.129 |
| 368 | 06/03/2019 | 14:09:04 | 0.145 |
| 369 | 06/03/2019 | 14:10:04 | 0.128 |
| 370 | 06/03/2019 | 14:11:04 | 0.170 |
| 371 | 06/03/2019 | 14:12:04 | 0.143 |
| 372 | 06/03/2019 | 14:13:04 | 0.183 |
| 373 | 06/03/2019 | 14:14:04 | 0.082 |
| 374 | 06/03/2019 | 14:15:04 | 0.093 |
| 375 | 06/03/2019 | 14:16:04 | 0.110 |
| 376 | 06/03/2019 | 14:17:04 | 0.167 |
| 377 | 06/03/2019 | 14:18:04 | 0.133 |
| 378 | 06/03/2019 | 14:19:04 | 0.055 |
| 379 | 06/03/2019 | 14:20:04 | 0.124 |
| 380 | 06/03/2019 | 14:21:04 | 0.076 |
| 381 | 06/03/2019 | 14:22:04 | 0.139 |
| 382 | 06/03/2019 | 14:23:04 | 0.193 |
| 383 | 06/03/2019 | 14:24:04 | 0.137 |
| 384 | 06/03/2019 | 14:25:04 | 0.076 |
| 385 | 06/03/2019 | 14:26:04 | 0.067 |
| 386 | 06/03/2019 | 14:27:04 | 0.184 |
| 387 | 06/03/2019 | 14:28:04 | 0.137 |
| 388 | 06/03/2019 | 14:29:04 | 0.142 |
| 389 | 06/03/2019 | 14:30:04 | 0.167 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 390 | 06/03/2019 | 14:31:04 | 0.103 |
| 391 | 06/03/2019 | 14:32:04 | 0.142 |
| 392 | 06/03/2019 | 14:33:04 | 0.157 |
| 393 | 06/03/2019 | 14:34:04 | 0.122 |
| 394 | 06/03/2019 | 14:35:04 | 0.192 |
| 395 | 06/03/2019 | 14:36:04 | 0.157 |
| 396 | 06/03/2019 | 14:37:04 | 0.090 |
| 397 | 06/03/2019 | 14:38:04 | 0.247 |
| 398 | 06/03/2019 | 14:39:04 | 0.188 |
| 399 | 06/03/2019 | 14:40:04 | 0.203 |
| 400 | 06/03/2019 | 14:41:04 | 0.096 |
| 401 | 06/03/2019 | 14:42:04 | 0.107 |
| 402 | 06/03/2019 | 14:43:04 | 0.136 |
| 403 | 06/03/2019 | 14:44:04 | 0.057 |
| 404 | 06/03/2019 | 14:45:04 | 0.037 |

# Test 004

ERROR: FLOW,

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/04/2019 |
| Instrument S/N | 8530132432 | Start Time | 08:20:52 |
| | | Stop Date | 06/05/2019 |
| | | Stop Time | 08:10:52 |
| | | Total Time | 0:23:50:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.069 mg/m^3 |
| Max | 1.190 mg/m^3 |
| Max Date | 06/04/2019 |
| Max Time | 16:13:52 |
| Min | 0.000 mg/m^3 |
| Min Date | 06/04/2019 |
| Min Time | 08:21:52 |
| TWA (8 hr) | 0.505 |
| TWA Start Date | 06/04/2019 |
| TWA Start Time | 08:20:52 |
| TWA End Time | 08:10:52 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/04/2019 | 08:21:52 | 0.000 |
| 2 | 06/04/2019 | 08:22:52 | 0.000 |
| 3 | 06/04/2019 | 08:23:52 | 0.000 |
| 4 | 06/04/2019 | 08:24:52 | 0.000 |
| 5 | 06/04/2019 | 08:25:52 | 0.000 |
| 6 | 06/04/2019 | 14:22:23 | 0.000 |
| 7 | 06/04/2019 | 14:22:52 | 0.000 |
| 8 | 06/04/2019 | 14:23:52 | 0.000 |
| 9 | 06/04/2019 | 14:24:52 | 0.000 |
| 10 | 06/04/2019 | 14:25:52 | 0.000 |
| 11 | 06/04/2019 | 14:26:52 | 0.000 |
| 12 | 06/04/2019 | 14:27:52 | 0.000 |
| 13 | 06/04/2019 | 15:58:18 | 0.000 |
| 14 | 06/04/2019 | 15:58:52 | 0.848 |
| 15 | 06/04/2019 | 15:59:52 | 0.737 |
| 16 | 06/04/2019 | 16:00:52 | 0.669 |
| 17 | 06/04/2019 | 16:01:52 | 0.752 |
| 18 | 06/04/2019 | 16:02:52 | 0.758 |
| 19 | 06/04/2019 | 16:03:52 | 0.683 |
| 20 | 06/04/2019 | 16:04:52 | 0.721 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 21 | 06/04/2019 | 16:05:52 | 0.738 |
| 22 | 06/04/2019 | 16:06:52 | 0.821 |
| 23 | 06/04/2019 | 16:07:52 | 0.845 |
| 24 | 06/04/2019 | 16:08:52 | 0.724 |
| 25 | 06/04/2019 | 16:09:52 | 0.693 |
| 26 | 06/04/2019 | 16:10:52 | 0.704 |
| 27 | 06/04/2019 | 16:11:52 | 0.682 |
| 28 | 06/04/2019 | 16:12:52 | 0.749 |
| 29 | 06/04/2019 | 16:13:52 | 1.190 |
| 30 | 06/04/2019 | 16:14:52 | 1.160 |
| 31 | 06/04/2019 | 16:15:52 | 1.060 |
| 32 | 06/04/2019 | 16:16:52 | 0.985 |
| 33 | 06/04/2019 | 16:17:52 | 1.020 |
| 34 | 06/04/2019 | 16:18:52 | 0.684 |
| 35 | 06/04/2019 | 16:19:52 | 0.494 |
| 36 | 06/04/2019 | 16:20:52 | 0.467 |
| 37 | 06/04/2019 | 16:21:52 | 0.419 |
| 38 | 06/04/2019 | 16:22:52 | 0.495 |
| 39 | 06/04/2019 | 16:23:52 | 0.485 |
| 40 | 06/04/2019 | 16:24:52 | 0.447 |
| 41 | 06/04/2019 | 16:25:52 | 0.372 |
| 42 | 06/04/2019 | 16:26:52 | 0.406 |
| 43 | 06/04/2019 | 16:27:52 | 0.424 |
| 44 | 06/04/2019 | 16:28:52 | 0.430 |
| 45 | 06/04/2019 | 16:29:52 | 0.391 |
| 46 | 06/04/2019 | 16:30:52 | 0.394 |
| 47 | 06/04/2019 | 16:31:52 | 0.436 |
| 48 | 06/04/2019 | 16:32:52 | 0.449 |
| 49 | 06/04/2019 | 16:33:52 | 0.411 |
| 50 | 06/04/2019 | 16:34:52 | 0.415 |
| 51 | 06/04/2019 | 16:35:52 | 0.426 |
| 52 | 06/04/2019 | 16:36:52 | 0.433 |
| 53 | 06/04/2019 | 16:37:52 | 0.424 |
| 54 | 06/04/2019 | 16:38:52 | 0.376 |
| 55 | 06/04/2019 | 16:39:52 | 0.349 |
| 56 | 06/04/2019 | 16:40:52 | 0.367 |
| 57 | 06/04/2019 | 16:41:52 | 0.363 |
| 58 | 06/04/2019 | 16:42:52 | 0.303 |
| 59 | 06/04/2019 | 16:43:52 | 0.317 |
| 60 | 06/04/2019 | 16:44:52 | 0.292 |
| 61 | 06/04/2019 | 16:45:52 | 0.254 |
| 62 | 06/04/2019 | 16:46:52 | 0.281 |
| 63 | 06/04/2019 | 16:47:52 | 0.278 |
| 64 | 06/04/2019 | 16:48:52 | 0.257 |
| 65 | 06/04/2019 | 16:49:52 | 0.251 |
| 66 | 06/04/2019 | 16:50:52 | 0.245 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 67 | 06/04/2019 | 16:51:52 | 0.244 |
| 68 | 06/04/2019 | 16:52:52 | 0.230 |
| 69 | 06/04/2019 | 16:53:52 | 0.205 |
| 70 | 06/04/2019 | 16:54:52 | 0.200 |
| 71 | 06/04/2019 | 16:55:52 | 0.210 |
| 72 | 06/04/2019 | 16:56:52 | 0.203 |
| 73 | 06/04/2019 | 16:57:52 | 0.205 |
| 74 | 06/04/2019 | 16:58:52 | 0.191 |
| 75 | 06/04/2019 | 16:59:52 | 0.203 |
| 76 | 06/04/2019 | 17:00:52 | 0.198 |
| 77 | 06/04/2019 | 17:01:52 | 0.201 |
| 78 | 06/04/2019 | 17:02:52 | 0.203 |
| 79 | 06/04/2019 | 17:03:52 | 0.196 |
| 80 | 06/04/2019 | 17:04:52 | 0.188 |
| 81 | 06/04/2019 | 17:05:52 | 0.190 |
| 82 | 06/04/2019 | 17:06:52 | 0.187 |
| 83 | 06/04/2019 | 17:07:52 | 0.196 |
| 84 | 06/04/2019 | 17:08:52 | 0.186 |
| 85 | 06/04/2019 | 17:09:52 | 0.193 |
| 86 | 06/04/2019 | 17:10:52 | 0.182 |
| 87 | 06/04/2019 | 17:11:52 | 0.179 |
| 88 | 06/04/2019 | 17:12:52 | 0.170 |
| 89 | 06/04/2019 | 17:13:52 | 0.170 |
| 90 | 06/04/2019 | 17:14:52 | 0.162 |
| 91 | 06/04/2019 | 17:15:52 | 0.162 |
| 92 | 06/04/2019 | 17:16:52 | 0.158 |
| 93 | 06/04/2019 | 17:17:52 | 0.163 |
| 94 | 06/04/2019 | 17:18:52 | 0.159 |
| 95 | 06/04/2019 | 17:19:52 | 0.158 |
| 96 | 06/04/2019 | 17:20:52 | 0.143 |
| 97 | 06/04/2019 | 17:21:52 | 0.144 |
| 98 | 06/04/2019 | 17:22:52 | 0.141 |
| 99 | 06/04/2019 | 17:23:52 | 0.146 |
| 100 | 06/04/2019 | 17:24:52 | 0.142 |
| 101 | 06/04/2019 | 17:25:52 | 0.139 |
| 102 | 06/04/2019 | 17:26:52 | 0.138 |
| 103 | 06/04/2019 | 17:27:52 | 0.137 |
| 104 | 06/04/2019 | 17:28:52 | 0.137 |
| 105 | 06/04/2019 | 17:29:52 | 0.135 |
| 106 | 06/04/2019 | 17:30:52 | 0.132 |
| 107 | 06/04/2019 | 17:31:52 | 0.131 |
| 108 | 06/04/2019 | 17:32:52 | 0.118 |
| 109 | 06/04/2019 | 17:33:52 | 0.114 |
| 110 | 06/04/2019 | 17:34:52 | 0.116 |
| 111 | 06/04/2019 | 17:35:52 | 0.115 |
| 112 | 06/04/2019 | 17:36:52 | 0.109 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 113 | 06/04/2019 | 17:37:52 | 0.117 |
| 114 | 06/04/2019 | 17:38:52 | 0.110 |
| 115 | 06/04/2019 | 17:39:52 | 0.107 |
| 116 | 06/04/2019 | 17:40:52 | 0.114 |
| 117 | 06/04/2019 | 17:41:52 | 0.114 |
| 118 | 06/04/2019 | 17:42:52 | 0.111 |
| 119 | 06/04/2019 | 17:43:52 | 0.112 |
| 120 | 06/04/2019 | 17:44:52 | 0.101 |
| 121 | 06/04/2019 | 17:45:52 | 0.101 |
| 122 | 06/04/2019 | 17:46:52 | 0.101 |
| 123 | 06/04/2019 | 17:47:52 | 0.101 |
| 124 | 06/04/2019 | 17:48:52 | 0.112 |
| 125 | 06/04/2019 | 17:49:52 | 0.101 |
| 126 | 06/04/2019 | 17:50:52 | 0.102 |
| 127 | 06/04/2019 | 17:51:52 | 0.098 |
| 128 | 06/04/2019 | 17:52:52 | 0.094 |
| 129 | 06/04/2019 | 17:53:52 | 0.097 |
| 130 | 06/04/2019 | 17:54:52 | 0.095 |
| 131 | 06/04/2019 | 17:55:52 | 0.095 |
| 132 | 06/04/2019 | 17:56:52 | 0.084 |
| 133 | 06/04/2019 | 17:57:52 | 0.083 |
| 134 | 06/04/2019 | 17:58:52 | 0.084 |
| 135 | 06/04/2019 | 17:59:52 | 0.090 |
| 136 | 06/04/2019 | 18:00:52 | 0.090 |
| 137 | 06/04/2019 | 18:01:52 | 0.089 |
| 138 | 06/04/2019 | 18:02:52 | 0.077 |
| 139 | 06/04/2019 | 18:03:52 | 0.087 |
| 140 | 06/04/2019 | 18:04:52 | 0.094 |
| 141 | 06/04/2019 | 18:05:52 | 0.091 |
| 142 | 06/04/2019 | 18:06:52 | 0.094 |
| 143 | 06/04/2019 | 18:07:52 | 0.079 |
| 144 | 06/04/2019 | 18:08:52 | 0.073 |
| 145 | 06/04/2019 | 18:09:52 | 0.084 |
| 146 | 06/04/2019 | 18:10:52 | 0.082 |
| 147 | 06/04/2019 | 18:11:52 | 0.079 |
| 148 | 06/04/2019 | 18:12:52 | 0.088 |
| 149 | 06/04/2019 | 18:13:52 | 0.088 |
| 150 | 06/04/2019 | 18:14:52 | 0.082 |
| 151 | 06/04/2019 | 18:15:52 | 0.081 |
| 152 | 06/04/2019 | 18:16:52 | 0.077 |
| 153 | 06/04/2019 | 18:17:52 | 0.094 |
| 154 | 06/04/2019 | 18:18:52 | 0.083 |
| 155 | 06/04/2019 | 18:19:52 | 0.081 |
| 156 | 06/04/2019 | 18:20:52 | 0.086 |
| 157 | 06/04/2019 | 18:21:52 | 0.083 |
| 158 | 06/04/2019 | 18:22:52 | 0.082 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 159 | 06/04/2019 | 18:23:52 | 0.083 |
| 160 | 06/04/2019 | 18:24:52 | 0.083 |
| 161 | 06/04/2019 | 18:25:52 | 0.077 |
| 162 | 06/04/2019 | 18:26:52 | 0.077 |
| 163 | 06/04/2019 | 18:27:52 | 0.078 |
| 164 | 06/04/2019 | 18:28:52 | 0.078 |
| 165 | 06/04/2019 | 18:29:52 | 0.078 |
| 166 | 06/04/2019 | 18:30:52 | 0.076 |
| 167 | 06/04/2019 | 18:31:52 | 0.071 |
| 168 | 06/04/2019 | 18:32:52 | 0.077 |
| 169 | 06/04/2019 | 18:33:52 | 0.074 |
| 170 | 06/04/2019 | 18:34:52 | 0.075 |
| 171 | 06/04/2019 | 18:35:52 | 0.078 |
| 172 | 06/04/2019 | 18:36:52 | 0.073 |
| 173 | 06/04/2019 | 18:37:52 | 0.081 |
| 174 | 06/04/2019 | 18:38:52 | 0.079 |
| 175 | 06/04/2019 | 18:39:52 | 0.074 |
| 176 | 06/04/2019 | 18:40:52 | 0.072 |
| 177 | 06/04/2019 | 18:41:52 | 0.069 |
| 178 | 06/04/2019 | 18:42:52 | 0.072 |
| 179 | 06/04/2019 | 18:43:52 | 0.074 |
| 180 | 06/04/2019 | 18:44:52 | 0.071 |
| 181 | 06/04/2019 | 18:45:52 | 0.069 |
| 182 | 06/04/2019 | 18:46:52 | 0.070 |
| 183 | 06/04/2019 | 18:47:52 | 0.069 |
| 184 | 06/04/2019 | 18:48:52 | 0.071 |
| 185 | 06/04/2019 | 18:49:52 | 0.064 |
| 186 | 06/04/2019 | 18:50:52 | 0.075 |
| 187 | 06/04/2019 | 18:51:52 | 0.075 |
| 188 | 06/04/2019 | 18:52:52 | 0.076 |
| 189 | 06/04/2019 | 18:53:52 | 0.068 |
| 190 | 06/04/2019 | 18:54:52 | 0.071 |
| 191 | 06/04/2019 | 18:55:52 | 0.068 |
| 192 | 06/04/2019 | 18:56:52 | 0.069 |
| 193 | 06/04/2019 | 18:57:52 | 0.067 |
| 194 | 06/04/2019 | 18:58:52 | 0.064 |
| 195 | 06/04/2019 | 18:59:52 | 0.063 |
| 196 | 06/04/2019 | 19:00:52 | 0.062 |
| 197 | 06/04/2019 | 19:01:52 | 0.063 |
| 198 | 06/04/2019 | 19:02:52 | 0.066 |
| 199 | 06/04/2019 | 19:03:52 | 0.069 |
| 200 | 06/04/2019 | 19:04:52 | 0.067 |
| 201 | 06/04/2019 | 19:05:52 | 0.071 |
| 202 | 06/04/2019 | 19:06:52 | 0.065 |
| 203 | 06/04/2019 | 19:07:52 | 0.068 |
| 204 | 06/04/2019 | 19:08:52 | 0.065 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 205 | 06/04/2019 | 19:09:52 | 0.068 |
| 206 | 06/04/2019 | 19:10:52 | 0.069 |
| 207 | 06/04/2019 | 19:11:52 | 0.067 |
| 208 | 06/04/2019 | 19:12:52 | 0.064 |
| 209 | 06/04/2019 | 19:13:52 | 0.065 |
| 210 | 06/04/2019 | 19:14:52 | 0.067 |
| 211 | 06/04/2019 | 19:15:52 | 0.067 |
| 212 | 06/04/2019 | 19:16:52 | 0.066 |
| 213 | 06/04/2019 | 19:17:52 | 0.064 |
| 214 | 06/04/2019 | 19:18:52 | 0.066 |
| 215 | 06/04/2019 | 19:19:52 | 0.065 |
| 216 | 06/04/2019 | 19:20:52 | 0.067 |
| 217 | 06/04/2019 | 19:21:52 | 0.065 |
| 218 | 06/04/2019 | 19:22:52 | 0.065 |
| 219 | 06/04/2019 | 19:23:52 | 0.062 |
| 220 | 06/04/2019 | 19:24:52 | 0.062 |
| 221 | 06/04/2019 | 19:25:52 | 0.060 |
| 222 | 06/04/2019 | 19:26:52 | 0.063 |
| 223 | 06/04/2019 | 19:27:52 | 0.059 |
| 224 | 06/04/2019 | 19:28:52 | 0.057 |
| 225 | 06/04/2019 | 19:29:52 | 0.057 |
| 226 | 06/04/2019 | 19:30:52 | 0.061 |
| 227 | 06/04/2019 | 19:31:52 | 0.059 |
| 228 | 06/04/2019 | 19:32:52 | 0.061 |
| 229 | 06/04/2019 | 19:33:52 | 0.060 |
| 230 | 06/04/2019 | 19:34:52 | 0.057 |
| 231 | 06/04/2019 | 19:35:52 | 0.057 |
| 232 | 06/04/2019 | 19:36:52 | 0.057 |
| 233 | 06/04/2019 | 19:37:52 | 0.059 |
| 234 | 06/04/2019 | 19:38:52 | 0.059 |
| 235 | 06/04/2019 | 19:39:52 | 0.056 |
| 236 | 06/04/2019 | 19:40:52 | 0.054 |
| 237 | 06/04/2019 | 19:41:52 | 0.059 |
| 238 | 06/04/2019 | 19:42:52 | 0.058 |
| 239 | 06/04/2019 | 19:43:52 | 0.058 |
| 240 | 06/04/2019 | 19:44:52 | 0.056 |
| 241 | 06/04/2019 | 19:45:52 | 0.053 |
| 242 | 06/04/2019 | 19:46:52 | 0.053 |
| 243 | 06/04/2019 | 19:47:52 | 0.053 |
| 244 | 06/04/2019 | 19:48:52 | 0.053 |
| 245 | 06/04/2019 | 19:49:52 | 0.052 |
| 246 | 06/04/2019 | 19:50:52 | 0.050 |
| 247 | 06/04/2019 | 19:51:52 | 0.052 |
| 248 | 06/04/2019 | 19:52:52 | 0.053 |
| 249 | 06/04/2019 | 19:53:52 | 0.054 |
| 250 | 06/04/2019 | 19:54:52 | 0.053 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 251 | 06/04/2019 | 19:55:52 | 0.051 |
| 252 | 06/04/2019 | 19:56:52 | 0.053 |
| 253 | 06/04/2019 | 19:57:52 | 0.052 |
| 254 | 06/04/2019 | 19:58:52 | 0.049 |
| 255 | 06/04/2019 | 19:59:52 | 0.049 |
| 256 | 06/04/2019 | 20:00:52 | 0.048 |
| 257 | 06/04/2019 | 20:01:52 | 0.049 |
| 258 | 06/04/2019 | 20:02:52 | 0.050 |
| 259 | 06/04/2019 | 20:03:52 | 0.048 |
| 260 | 06/04/2019 | 20:04:52 | 0.043 |
| 261 | 06/04/2019 | 20:05:52 | 0.046 |
| 262 | 06/04/2019 | 20:06:52 | 0.048 |
| 263 | 06/04/2019 | 20:07:52 | 0.048 |
| 264 | 06/04/2019 | 20:08:52 | 0.045 |
| 265 | 06/04/2019 | 20:09:52 | 0.047 |
| 266 | 06/04/2019 | 20:10:52 | 0.046 |
| 267 | 06/04/2019 | 20:11:52 | 0.047 |
| 268 | 06/04/2019 | 20:12:52 | 0.046 |
| 269 | 06/04/2019 | 20:13:52 | 0.047 |
| 270 | 06/04/2019 | 20:14:52 | 0.047 |
| 271 | 06/04/2019 | 20:15:52 | 0.044 |
| 272 | 06/04/2019 | 20:16:52 | 0.044 |
| 273 | 06/04/2019 | 20:17:52 | 0.045 |
| 274 | 06/04/2019 | 20:18:52 | 0.045 |
| 275 | 06/04/2019 | 20:19:52 | 0.044 |
| 276 | 06/04/2019 | 20:20:52 | 0.043 |
| 277 | 06/04/2019 | 20:21:52 | 0.043 |
| 278 | 06/04/2019 | 20:22:52 | 0.043 |
| 279 | 06/04/2019 | 20:23:52 | 0.042 |
| 280 | 06/04/2019 | 20:24:52 | 0.043 |
| 281 | 06/04/2019 | 20:25:52 | 0.042 |
| 282 | 06/04/2019 | 20:26:52 | 0.041 |
| 283 | 06/04/2019 | 20:27:52 | 0.040 |
| 284 | 06/04/2019 | 20:28:52 | 0.039 |
| 285 | 06/04/2019 | 20:29:52 | 0.040 |
| 286 | 06/04/2019 | 20:30:52 | 0.039 |
| 287 | 06/04/2019 | 20:31:52 | 0.041 |
| 288 | 06/04/2019 | 20:32:52 | 0.040 |
| 289 | 06/04/2019 | 20:33:52 | 0.040 |
| 290 | 06/04/2019 | 20:34:52 | 0.039 |
| 291 | 06/04/2019 | 20:35:52 | 0.039 |
| 292 | 06/04/2019 | 20:36:52 | 0.040 |
| 293 | 06/04/2019 | 20:37:52 | 0.039 |
| 294 | 06/04/2019 | 20:38:52 | 0.038 |
| 295 | 06/04/2019 | 20:39:52 | 0.038 |
| 296 | 06/04/2019 | 20:40:52 | 0.039 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 297 | 06/04/2019 | 20:41:52 | 0.039 |
| 298 | 06/04/2019 | 20:42:52 | 0.038 |
| 299 | 06/04/2019 | 20:43:52 | 0.037 |
| 300 | 06/04/2019 | 20:44:52 | 0.039 |
| 301 | 06/04/2019 | 20:45:52 | 0.037 |
| 302 | 06/04/2019 | 20:46:52 | 0.037 |
| 303 | 06/04/2019 | 20:47:52 | 0.037 |
| 304 | 06/04/2019 | 20:48:52 | 0.037 |
| 305 | 06/04/2019 | 20:49:52 | 0.037 |
| 306 | 06/04/2019 | 20:50:52 | 0.036 |
| 307 | 06/04/2019 | 20:51:52 | 0.028 |
| 308 | 06/04/2019 | 20:52:52 | 0.033 |
| 309 | 06/04/2019 | 20:53:52 | 0.037 |
| 310 | 06/04/2019 | 20:54:52 | 0.036 |
| 311 | 06/04/2019 | 20:55:52 | 0.036 |
| 312 | 06/04/2019 | 20:56:52 | 0.034 |
| 313 | 06/04/2019 | 20:57:52 | 0.036 |
| 314 | 06/04/2019 | 20:58:52 | 0.035 |
| 315 | 06/04/2019 | 20:59:52 | 0.035 |
| 316 | 06/04/2019 | 21:00:52 | 0.033 |
| 317 | 06/04/2019 | 21:01:52 | 0.034 |
| 318 | 06/04/2019 | 21:02:52 | 0.035 |
| 319 | 06/04/2019 | 21:03:52 | 0.034 |
| 320 | 06/04/2019 | 21:04:52 | 0.035 |
| 321 | 06/04/2019 | 21:05:52 | 0.036 |
| 322 | 06/04/2019 | 21:06:52 | 0.035 |
| 323 | 06/04/2019 | 21:07:52 | 0.034 |
| 324 | 06/04/2019 | 21:08:52 | 0.034 |
| 325 | 06/04/2019 | 21:09:52 | 0.034 |
| 326 | 06/04/2019 | 21:10:52 | 0.034 |
| 327 | 06/04/2019 | 21:11:52 | 0.034 |
| 328 | 06/04/2019 | 21:12:52 | 0.034 |
| 329 | 06/04/2019 | 21:13:52 | 0.034 |
| 330 | 06/04/2019 | 21:14:52 | 0.035 |
| 331 | 06/04/2019 | 21:15:52 | 0.034 |
| 332 | 06/04/2019 | 21:16:52 | 0.034 |
| 333 | 06/04/2019 | 21:17:52 | 0.034 |
| 334 | 06/04/2019 | 21:18:52 | 0.035 |
| 335 | 06/04/2019 | 21:19:52 | 0.033 |
| 336 | 06/04/2019 | 21:20:52 | 0.034 |
| 337 | 06/04/2019 | 21:21:52 | 0.033 |
| 338 | 06/04/2019 | 21:22:52 | 0.033 |
| 339 | 06/04/2019 | 21:23:52 | 0.032 |
| 340 | 06/04/2019 | 21:24:52 | 0.034 |
| 341 | 06/04/2019 | 21:25:52 | 0.032 |
| 342 | 06/04/2019 | 21:26:52 | 0.033 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 343 | 06/04/2019 | 21:27:52 | 0.032 |
| 344 | 06/04/2019 | 21:28:52 | 0.033 |
| 345 | 06/04/2019 | 21:29:52 | 0.034 |
| 346 | 06/04/2019 | 21:30:52 | 0.032 |
| 347 | 06/04/2019 | 21:31:52 | 0.032 |
| 348 | 06/04/2019 | 21:32:52 | 0.033 |
| 349 | 06/04/2019 | 21:33:52 | 0.033 |
| 350 | 06/04/2019 | 21:34:52 | 0.032 |
| 351 | 06/04/2019 | 21:35:52 | 0.032 |
| 352 | 06/04/2019 | 21:36:52 | 0.032 |
| 353 | 06/04/2019 | 21:37:52 | 0.033 |
| 354 | 06/04/2019 | 21:38:52 | 0.032 |
| 355 | 06/04/2019 | 21:39:52 | 0.031 |
| 356 | 06/04/2019 | 21:40:52 | 0.032 |
| 357 | 06/04/2019 | 21:41:52 | 0.032 |
| 358 | 06/04/2019 | 21:42:52 | 0.031 |
| 359 | 06/04/2019 | 21:43:52 | 0.031 |
| 360 | 06/04/2019 | 21:44:52 | 0.032 |
| 361 | 06/04/2019 | 21:45:52 | 0.031 |
| 362 | 06/04/2019 | 21:46:52 | 0.031 |
| 363 | 06/04/2019 | 21:47:52 | 0.031 |
| 364 | 06/04/2019 | 21:48:52 | 0.031 |
| 365 | 06/04/2019 | 21:49:52 | 0.030 |
| 366 | 06/04/2019 | 21:50:52 | 0.031 |
| 367 | 06/04/2019 | 21:51:52 | 0.031 |
| 368 | 06/04/2019 | 21:52:52 | 0.031 |
| 369 | 06/04/2019 | 21:53:52 | 0.031 |
| 370 | 06/04/2019 | 21:54:52 | 0.030 |
| 371 | 06/04/2019 | 21:55:52 | 0.030 |
| 372 | 06/04/2019 | 21:56:52 | 0.029 |
| 373 | 06/04/2019 | 21:57:52 | 0.030 |
| 374 | 06/04/2019 | 21:58:52 | 0.029 |
| 375 | 06/04/2019 | 21:59:52 | 0.029 |
| 376 | 06/04/2019 | 22:00:52 | 0.030 |
| 377 | 06/04/2019 | 22:01:52 | 0.029 |
| 378 | 06/04/2019 | 22:02:52 | 0.029 |
| 379 | 06/04/2019 | 22:03:52 | 0.029 |
| 380 | 06/04/2019 | 22:04:52 | 0.030 |
| 381 | 06/04/2019 | 22:05:52 | 0.029 |
| 382 | 06/04/2019 | 22:06:52 | 0.029 |
| 383 | 06/04/2019 | 22:07:52 | 0.030 |
| 384 | 06/04/2019 | 22:08:52 | 0.031 |
| 385 | 06/04/2019 | 22:09:52 | 0.029 |
| 386 | 06/04/2019 | 22:10:52 | 0.029 |
| 387 | 06/04/2019 | 22:11:52 | 0.029 |
| 388 | 06/04/2019 | 22:12:52 | 0.029 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 389 | 06/04/2019 | 22:13:52 | 0.029 |
| 390 | 06/04/2019 | 22:14:52 | 0.030 |
| 391 | 06/04/2019 | 22:15:52 | 0.029 |
| 392 | 06/04/2019 | 22:16:52 | 0.029 |
| 393 | 06/04/2019 | 22:17:52 | 0.030 |
| 394 | 06/04/2019 | 22:18:52 | 0.029 |
| 395 | 06/04/2019 | 22:19:52 | 0.028 |
| 396 | 06/04/2019 | 22:20:52 | 0.029 |
| 397 | 06/04/2019 | 22:21:52 | 0.028 |
| 398 | 06/04/2019 | 22:22:52 | 0.029 |
| 399 | 06/04/2019 | 22:23:52 | 0.028 |
| 400 | 06/04/2019 | 22:24:52 | 0.029 |
| 401 | 06/04/2019 | 22:25:52 | 0.029 |
| 402 | 06/04/2019 | 22:26:52 | 0.028 |
| 403 | 06/04/2019 | 22:27:52 | 0.028 |
| 404 | 06/04/2019 | 22:28:52 | 0.029 |
| 405 | 06/04/2019 | 22:29:52 | 0.028 |
| 406 | 06/04/2019 | 22:30:52 | 0.028 |
| 407 | 06/04/2019 | 22:31:52 | 0.029 |
| 408 | 06/04/2019 | 22:32:52 | 0.028 |
| 409 | 06/04/2019 | 22:33:52 | 0.029 |
| 410 | 06/04/2019 | 22:34:52 | 0.027 |
| 411 | 06/04/2019 | 22:35:52 | 0.028 |
| 412 | 06/04/2019 | 22:36:52 | 0.028 |
| 413 | 06/04/2019 | 22:37:52 | 0.028 |
| 414 | 06/04/2019 | 22:38:52 | 0.028 |
| 415 | 06/04/2019 | 22:39:52 | 0.028 |
| 416 | 06/04/2019 | 22:40:52 | 0.029 |
| 417 | 06/04/2019 | 22:41:52 | 0.027 |
| 418 | 06/04/2019 | 22:42:52 | 0.027 |
| 419 | 06/04/2019 | 22:43:52 | 0.027 |
| 420 | 06/04/2019 | 22:44:52 | 0.028 |
| 421 | 06/04/2019 | 22:45:52 | 0.027 |
| 422 | 06/04/2019 | 22:46:52 | 0.027 |
| 423 | 06/04/2019 | 22:47:52 | 0.027 |
| 424 | 06/04/2019 | 22:48:52 | 0.028 |
| 425 | 06/04/2019 | 22:49:52 | 0.028 |
| 426 | 06/04/2019 | 22:50:52 | 0.028 |
| 427 | 06/04/2019 | 22:51:52 | 0.027 |
| 428 | 06/04/2019 | 22:52:52 | 0.027 |
| 429 | 06/04/2019 | 22:53:52 | 0.027 |
| 430 | 06/04/2019 | 22:54:52 | 0.028 |
| 431 | 06/04/2019 | 22:55:52 | 0.027 |
| 432 | 06/04/2019 | 22:56:52 | 0.027 |
| 433 | 06/04/2019 | 22:57:52 | 0.027 |
| 434 | 06/04/2019 | 22:58:52 | 0.027 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 435 | 06/04/2019 | 22:59:52 | 0.027 |
| 436 | 06/04/2019 | 23:00:52 | 0.028 |
| 437 | 06/04/2019 | 23:01:52 | 0.027 |
| 438 | 06/04/2019 | 23:02:52 | 0.027 |
| 439 | 06/04/2019 | 23:03:52 | 0.027 |
| 440 | 06/04/2019 | 23:04:52 | 0.027 |
| 441 | 06/04/2019 | 23:05:52 | 0.027 |
| 442 | 06/04/2019 | 23:06:52 | 0.028 |
| 443 | 06/04/2019 | 23:07:52 | 0.027 |
| 444 | 06/04/2019 | 23:08:52 | 0.027 |
| 445 | 06/04/2019 | 23:09:52 | 0.028 |
| 446 | 06/04/2019 | 23:10:52 | 0.027 |
| 447 | 06/04/2019 | 23:11:52 | 0.027 |
| 448 | 06/04/2019 | 23:12:52 | 0.027 |
| 449 | 06/04/2019 | 23:13:52 | 0.027 |
| 450 | 06/04/2019 | 23:14:52 | 0.027 |
| 451 | 06/04/2019 | 23:15:52 | 0.027 |
| 452 | 06/04/2019 | 23:16:52 | 0.027 |
| 453 | 06/04/2019 | 23:17:52 | 0.027 |
| 454 | 06/04/2019 | 23:18:52 | 0.027 |
| 455 | 06/04/2019 | 23:19:52 | 0.027 |
| 456 | 06/04/2019 | 23:20:52 | 0.027 |
| 457 | 06/04/2019 | 23:21:52 | 0.027 |
| 458 | 06/04/2019 | 23:22:52 | 0.027 |
| 459 | 06/04/2019 | 23:23:52 | 0.026 |
| 460 | 06/04/2019 | 23:24:52 | 0.026 |
| 461 | 06/04/2019 | 23:25:52 | 0.026 |
| 462 | 06/04/2019 | 23:26:52 | 0.026 |
| 463 | 06/04/2019 | 23:27:52 | 0.026 |
| 464 | 06/04/2019 | 23:28:52 | 0.027 |
| 465 | 06/04/2019 | 23:29:52 | 0.026 |
| 466 | 06/04/2019 | 23:30:52 | 0.027 |
| 467 | 06/04/2019 | 23:31:52 | 0.027 |
| 468 | 06/04/2019 | 23:32:52 | 0.027 |
| 469 | 06/04/2019 | 23:33:52 | 0.027 |
| 470 | 06/04/2019 | 23:34:52 | 0.027 |
| 471 | 06/04/2019 | 23:35:52 | 0.026 |
| 472 | 06/04/2019 | 23:36:52 | 0.027 |
| 473 | 06/04/2019 | 23:37:52 | 0.027 |
| 474 | 06/04/2019 | 23:38:52 | 0.026 |
| 475 | 06/04/2019 | 23:39:52 | 0.027 |
| 476 | 06/04/2019 | 23:40:52 | 0.026 |
| 477 | 06/04/2019 | 23:41:52 | 0.026 |
| 478 | 06/04/2019 | 23:42:52 | 0.027 |
| 479 | 06/04/2019 | 23:43:52 | 0.026 |
| 480 | 06/04/2019 | 23:44:52 | 0.026 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 481 | 06/04/2019 | 23:45:52 | 0.026 |
| 482 | 06/04/2019 | 23:46:52 | 0.026 |
| 483 | 06/04/2019 | 23:47:52 | 0.026 |
| 484 | 06/04/2019 | 23:48:52 | 0.026 |
| 485 | 06/04/2019 | 23:49:52 | 0.026 |
| 486 | 06/04/2019 | 23:50:52 | 0.026 |
| 487 | 06/04/2019 | 23:51:52 | 0.026 |
| 488 | 06/04/2019 | 23:52:52 | 0.027 |
| 489 | 06/04/2019 | 23:53:52 | 0.026 |
| 490 | 06/04/2019 | 23:54:52 | 0.027 |
| 491 | 06/04/2019 | 23:55:52 | 0.026 |
| 492 | 06/04/2019 | 23:56:52 | 0.026 |
| 493 | 06/04/2019 | 23:57:52 | 0.026 |
| 494 | 06/04/2019 | 23:58:52 | 0.026 |
| 495 | 06/04/2019 | 23:59:52 | 0.026 |
| 496 | 06/05/2019 | 00:00:52 | 0.026 |
| 497 | 06/05/2019 | 00:01:52 | 0.026 |
| 498 | 06/05/2019 | 00:02:52 | 0.026 |
| 499 | 06/05/2019 | 00:03:52 | 0.026 |
| 500 | 06/05/2019 | 00:04:52 | 0.027 |
| 501 | 06/05/2019 | 00:05:52 | 0.027 |
| 502 | 06/05/2019 | 00:06:52 | 0.026 |
| 503 | 06/05/2019 | 00:07:52 | 0.027 |
| 504 | 06/05/2019 | 00:08:52 | 0.027 |
| 505 | 06/05/2019 | 00:09:52 | 0.026 |
| 506 | 06/05/2019 | 00:10:52 | 0.026 |
| 507 | 06/05/2019 | 00:11:52 | 0.026 |
| 508 | 06/05/2019 | 00:12:52 | 0.026 |
| 509 | 06/05/2019 | 00:13:52 | 0.026 |
| 510 | 06/05/2019 | 00:14:52 | 0.026 |
| 511 | 06/05/2019 | 00:15:52 | 0.026 |
| 512 | 06/05/2019 | 00:16:52 | 0.026 |
| 513 | 06/05/2019 | 00:17:52 | 0.026 |
| 514 | 06/05/2019 | 00:18:52 | 0.026 |
| 515 | 06/05/2019 | 00:19:52 | 0.026 |
| 516 | 06/05/2019 | 00:20:52 | 0.026 |
| 517 | 06/05/2019 | 00:21:52 | 0.026 |
| 518 | 06/05/2019 | 00:22:52 | 0.026 |
| 519 | 06/05/2019 | 00:23:52 | 0.026 |
| 520 | 06/05/2019 | 00:24:52 | 0.026 |
| 521 | 06/05/2019 | 00:25:52 | 0.026 |
| 522 | 06/05/2019 | 00:26:52 | 0.026 |
| 523 | 06/05/2019 | 00:27:52 | 0.026 |
| 524 | 06/05/2019 | 00:28:52 | 0.026 |
| 525 | 06/05/2019 | 00:29:52 | 0.026 |
| 526 | 06/05/2019 | 00:30:52 | 0.026 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 527 | 06/05/2019 | 00:31:52 | 0.026 |
| 528 | 06/05/2019 | 00:32:52 | 0.026 |
| 529 | 06/05/2019 | 00:33:52 | 0.026 |
| 530 | 06/05/2019 | 00:34:52 | 0.026 |
| 531 | 06/05/2019 | 00:35:52 | 0.026 |
| 532 | 06/05/2019 | 00:36:52 | 0.026 |
| 533 | 06/05/2019 | 00:37:52 | 0.026 |
| 534 | 06/05/2019 | 00:38:52 | 0.026 |
| 535 | 06/05/2019 | 00:39:52 | 0.026 |
| 536 | 06/05/2019 | 00:40:52 | 0.026 |
| 537 | 06/05/2019 | 00:41:52 | 0.026 |
| 538 | 06/05/2019 | 00:42:52 | 0.025 |
| 539 | 06/05/2019 | 00:43:52 | 0.028 |
| 540 | 06/05/2019 | 00:44:52 | 0.026 |
| 541 | 06/05/2019 | 00:45:52 | 0.027 |
| 542 | 06/05/2019 | 00:46:52 | 0.026 |
| 543 | 06/05/2019 | 00:47:52 | 0.026 |
| 544 | 06/05/2019 | 00:48:52 | 0.025 |
| 545 | 06/05/2019 | 00:49:52 | 0.027 |
| 546 | 06/05/2019 | 00:50:52 | 0.026 |
| 547 | 06/05/2019 | 00:51:52 | 0.025 |
| 548 | 06/05/2019 | 00:52:52 | 0.026 |
| 549 | 06/05/2019 | 00:53:52 | 0.025 |
| 550 | 06/05/2019 | 00:54:52 | 0.026 |
| 551 | 06/05/2019 | 00:55:52 | 0.025 |
| 552 | 06/05/2019 | 00:56:52 | 0.025 |
| 553 | 06/05/2019 | 00:57:52 | 0.025 |
| 554 | 06/05/2019 | 00:58:52 | 0.026 |
| 555 | 06/05/2019 | 00:59:52 | 0.025 |
| 556 | 06/05/2019 | 01:00:52 | 0.025 |
| 557 | 06/05/2019 | 01:01:52 | 0.025 |
| 558 | 06/05/2019 | 01:02:52 | 0.025 |
| 559 | 06/05/2019 | 01:03:52 | 0.025 |
| 560 | 06/05/2019 | 01:04:52 | 0.025 |
| 561 | 06/05/2019 | 01:05:52 | 0.026 |
| 562 | 06/05/2019 | 01:06:52 | 0.025 |
| 563 | 06/05/2019 | 01:07:52 | 0.025 |
| 564 | 06/05/2019 | 01:08:52 | 0.025 |
| 565 | 06/05/2019 | 01:09:52 | 0.026 |
| 566 | 06/05/2019 | 01:10:52 | 0.025 |
| 567 | 06/05/2019 | 01:11:52 | 0.026 |
| 568 | 06/05/2019 | 01:12:52 | 0.025 |
| 569 | 06/05/2019 | 01:13:52 | 0.026 |
| 570 | 06/05/2019 | 01:14:52 | 0.025 |
| 571 | 06/05/2019 | 01:15:52 | 0.025 |
| 572 | 06/05/2019 | 01:16:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 573 | 06/05/2019 | 01:17:52 | 0.025 |
| 574 | 06/05/2019 | 01:18:52 | 0.026 |
| 575 | 06/05/2019 | 01:19:52 | 0.025 |
| 576 | 06/05/2019 | 01:20:52 | 0.025 |
| 577 | 06/05/2019 | 01:21:52 | 0.025 |
| 578 | 06/05/2019 | 01:22:52 | 0.025 |
| 579 | 06/05/2019 | 01:23:52 | 0.026 |
| 580 | 06/05/2019 | 01:24:52 | 0.027 |
| 581 | 06/05/2019 | 01:25:52 | 0.025 |
| 582 | 06/05/2019 | 01:26:52 | 0.025 |
| 583 | 06/05/2019 | 01:27:52 | 0.025 |
| 584 | 06/05/2019 | 01:28:52 | 0.026 |
| 585 | 06/05/2019 | 01:29:52 | 0.026 |
| 586 | 06/05/2019 | 01:30:52 | 0.025 |
| 587 | 06/05/2019 | 01:31:52 | 0.025 |
| 588 | 06/05/2019 | 01:32:52 | 0.025 |
| 589 | 06/05/2019 | 01:33:52 | 0.026 |
| 590 | 06/05/2019 | 01:34:52 | 0.025 |
| 591 | 06/05/2019 | 01:35:52 | 0.025 |
| 592 | 06/05/2019 | 01:36:52 | 0.026 |
| 593 | 06/05/2019 | 01:37:52 | 0.025 |
| 594 | 06/05/2019 | 01:38:52 | 0.025 |
| 595 | 06/05/2019 | 01:39:52 | 0.025 |
| 596 | 06/05/2019 | 01:40:52 | 0.025 |
| 597 | 06/05/2019 | 01:41:52 | 0.026 |
| 598 | 06/05/2019 | 01:42:52 | 0.025 |
| 599 | 06/05/2019 | 01:43:52 | 0.025 |
| 600 | 06/05/2019 | 01:44:52 | 0.025 |
| 601 | 06/05/2019 | 01:45:52 | 0.025 |
| 602 | 06/05/2019 | 01:46:52 | 0.025 |
| 603 | 06/05/2019 | 01:47:52 | 0.025 |
| 604 | 06/05/2019 | 01:48:52 | 0.025 |
| 605 | 06/05/2019 | 01:49:52 | 0.026 |
| 606 | 06/05/2019 | 01:50:52 | 0.025 |
| 607 | 06/05/2019 | 01:51:52 | 0.025 |
| 608 | 06/05/2019 | 01:52:52 | 0.026 |
| 609 | 06/05/2019 | 01:53:52 | 0.025 |
| 610 | 06/05/2019 | 01:54:52 | 0.026 |
| 611 | 06/05/2019 | 01:55:52 | 0.026 |
| 612 | 06/05/2019 | 01:56:52 | 0.025 |
| 613 | 06/05/2019 | 01:57:52 | 0.025 |
| 614 | 06/05/2019 | 01:58:52 | 0.025 |
| 615 | 06/05/2019 | 01:59:52 | 0.026 |
| 616 | 06/05/2019 | 02:00:52 | 0.025 |
| 617 | 06/05/2019 | 02:01:52 | 0.025 |
| 618 | 06/05/2019 | 02:02:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 619 | 06/05/2019 | 02:03:52 | 0.025 |
| 620 | 06/05/2019 | 02:04:52 | 0.025 |
| 621 | 06/05/2019 | 02:05:52 | 0.025 |
| 622 | 06/05/2019 | 02:06:52 | 0.026 |
| 623 | 06/05/2019 | 02:07:52 | 0.025 |
| 624 | 06/05/2019 | 02:08:52 | 0.025 |
| 625 | 06/05/2019 | 02:09:52 | 0.025 |
| 626 | 06/05/2019 | 02:10:52 | 0.025 |
| 627 | 06/05/2019 | 02:11:52 | 0.026 |
| 628 | 06/05/2019 | 02:12:52 | 0.025 |
| 629 | 06/05/2019 | 02:13:52 | 0.025 |
| 630 | 06/05/2019 | 02:14:52 | 0.024 |
| 631 | 06/05/2019 | 02:15:52 | 0.025 |
| 632 | 06/05/2019 | 02:16:52 | 0.025 |
| 633 | 06/05/2019 | 02:17:52 | 0.025 |
| 634 | 06/05/2019 | 02:18:52 | 0.025 |
| 635 | 06/05/2019 | 02:19:52 | 0.025 |
| 636 | 06/05/2019 | 02:20:52 | 0.025 |
| 637 | 06/05/2019 | 02:21:52 | 0.025 |
| 638 | 06/05/2019 | 02:22:52 | 0.025 |
| 639 | 06/05/2019 | 02:23:52 | 0.025 |
| 640 | 06/05/2019 | 02:24:52 | 0.025 |
| 641 | 06/05/2019 | 02:25:52 | 0.025 |
| 642 | 06/05/2019 | 02:26:52 | 0.025 |
| 643 | 06/05/2019 | 02:27:52 | 0.025 |
| 644 | 06/05/2019 | 02:28:52 | 0.025 |
| 645 | 06/05/2019 | 02:29:52 | 0.025 |
| 646 | 06/05/2019 | 02:30:52 | 0.026 |
| 647 | 06/05/2019 | 02:31:52 | 0.025 |
| 648 | 06/05/2019 | 02:32:52 | 0.025 |
| 649 | 06/05/2019 | 02:33:52 | 0.025 |
| 650 | 06/05/2019 | 02:34:52 | 0.025 |
| 651 | 06/05/2019 | 02:35:52 | 0.025 |
| 652 | 06/05/2019 | 02:36:52 | 0.025 |
| 653 | 06/05/2019 | 02:37:52 | 0.025 |
| 654 | 06/05/2019 | 02:38:52 | 0.026 |
| 655 | 06/05/2019 | 02:39:52 | 0.025 |
| 656 | 06/05/2019 | 02:40:52 | 0.026 |
| 657 | 06/05/2019 | 02:41:52 | 0.025 |
| 658 | 06/05/2019 | 02:42:52 | 0.025 |
| 659 | 06/05/2019 | 02:43:52 | 0.025 |
| 660 | 06/05/2019 | 02:44:52 | 0.025 |
| 661 | 06/05/2019 | 02:45:52 | 0.025 |
| 662 | 06/05/2019 | 02:46:52 | 0.025 |
| 663 | 06/05/2019 | 02:47:52 | 0.025 |
| 664 | 06/05/2019 | 02:48:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 665 | 06/05/2019 | 02:49:52 | 0.026 |
| 666 | 06/05/2019 | 02:50:52 | 0.026 |
| 667 | 06/05/2019 | 02:51:52 | 0.026 |
| 668 | 06/05/2019 | 02:52:52 | 0.026 |
| 669 | 06/05/2019 | 02:53:52 | 0.026 |
| 670 | 06/05/2019 | 02:54:52 | 0.026 |
| 671 | 06/05/2019 | 02:55:52 | 0.025 |
| 672 | 06/05/2019 | 02:56:52 | 0.025 |
| 673 | 06/05/2019 | 02:57:52 | 0.025 |
| 674 | 06/05/2019 | 02:58:52 | 0.025 |
| 675 | 06/05/2019 | 02:59:52 | 0.025 |
| 676 | 06/05/2019 | 03:00:52 | 0.026 |
| 677 | 06/05/2019 | 03:01:52 | 0.025 |
| 678 | 06/05/2019 | 03:02:52 | 0.026 |
| 679 | 06/05/2019 | 03:03:52 | 0.025 |
| 680 | 06/05/2019 | 03:04:52 | 0.025 |
| 681 | 06/05/2019 | 03:05:52 | 0.025 |
| 682 | 06/05/2019 | 03:06:52 | 0.026 |
| 683 | 06/05/2019 | 03:07:52 | 0.026 |
| 684 | 06/05/2019 | 03:08:52 | 0.025 |
| 685 | 06/05/2019 | 03:09:52 | 0.025 |
| 686 | 06/05/2019 | 03:10:52 | 0.026 |
| 687 | 06/05/2019 | 03:11:52 | 0.025 |
| 688 | 06/05/2019 | 03:12:52 | 0.025 |
| 689 | 06/05/2019 | 03:13:52 | 0.025 |
| 690 | 06/05/2019 | 03:14:52 | 0.025 |
| 691 | 06/05/2019 | 03:15:52 | 0.026 |
| 692 | 06/05/2019 | 03:16:52 | 0.027 |
| 693 | 06/05/2019 | 03:17:52 | 0.025 |
| 694 | 06/05/2019 | 03:18:52 | 0.027 |
| 695 | 06/05/2019 | 03:19:52 | 0.025 |
| 696 | 06/05/2019 | 03:20:52 | 0.025 |
| 697 | 06/05/2019 | 03:21:52 | 0.025 |
| 698 | 06/05/2019 | 03:22:52 | 0.025 |
| 699 | 06/05/2019 | 03:23:52 | 0.027 |
| 700 | 06/05/2019 | 03:24:52 | 0.026 |
| 701 | 06/05/2019 | 03:25:52 | 0.025 |
| 702 | 06/05/2019 | 03:26:52 | 0.026 |
| 703 | 06/05/2019 | 03:27:52 | 0.027 |
| 704 | 06/05/2019 | 03:28:52 | 0.025 |
| 705 | 06/05/2019 | 03:29:52 | 0.026 |
| 706 | 06/05/2019 | 03:30:52 | 0.026 |
| 707 | 06/05/2019 | 03:31:52 | 0.026 |
| 708 | 06/05/2019 | 03:32:52 | 0.026 |
| 709 | 06/05/2019 | 03:33:52 | 0.025 |
| 710 | 06/05/2019 | 03:34:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 711 | 06/05/2019 | 03:35:52 | 0.025 |
| 712 | 06/05/2019 | 03:36:52 | 0.025 |
| 713 | 06/05/2019 | 03:37:52 | 0.025 |
| 714 | 06/05/2019 | 03:38:52 | 0.025 |
| 715 | 06/05/2019 | 03:39:52 | 0.026 |
| 716 | 06/05/2019 | 03:40:52 | 0.025 |
| 717 | 06/05/2019 | 03:41:52 | 0.026 |
| 718 | 06/05/2019 | 03:42:52 | 0.025 |
| 719 | 06/05/2019 | 03:43:52 | 0.025 |
| 720 | 06/05/2019 | 03:44:52 | 0.025 |
| 721 | 06/05/2019 | 03:45:52 | 0.025 |
| 722 | 06/05/2019 | 03:46:52 | 0.025 |
| 723 | 06/05/2019 | 03:47:52 | 0.025 |
| 724 | 06/05/2019 | 03:48:52 | 0.025 |
| 725 | 06/05/2019 | 03:49:52 | 0.025 |
| 726 | 06/05/2019 | 03:50:52 | 0.026 |
| 727 | 06/05/2019 | 03:51:52 | 0.025 |
| 728 | 06/05/2019 | 03:52:52 | 0.026 |
| 729 | 06/05/2019 | 03:53:52 | 0.025 |
| 730 | 06/05/2019 | 03:54:52 | 0.025 |
| 731 | 06/05/2019 | 03:55:52 | 0.026 |
| 732 | 06/05/2019 | 03:56:52 | 0.025 |
| 733 | 06/05/2019 | 03:57:52 | 0.025 |
| 734 | 06/05/2019 | 03:58:52 | 0.025 |
| 735 | 06/05/2019 | 03:59:52 | 0.025 |
| 736 | 06/05/2019 | 04:00:52 | 0.025 |
| 737 | 06/05/2019 | 04:01:52 | 0.025 |
| 738 | 06/05/2019 | 04:02:52 | 0.025 |
| 739 | 06/05/2019 | 04:03:52 | 0.025 |
| 740 | 06/05/2019 | 04:04:52 | 0.025 |
| 741 | 06/05/2019 | 04:05:52 | 0.025 |
| 742 | 06/05/2019 | 04:06:52 | 0.025 |
| 743 | 06/05/2019 | 04:07:52 | 0.026 |
| 744 | 06/05/2019 | 04:08:52 | 0.025 |
| 745 | 06/05/2019 | 04:09:52 | 0.025 |
| 746 | 06/05/2019 | 04:10:52 | 0.025 |
| 747 | 06/05/2019 | 04:11:52 | 0.025 |
| 748 | 06/05/2019 | 04:12:52 | 0.025 |
| 749 | 06/05/2019 | 04:13:52 | 0.025 |
| 750 | 06/05/2019 | 04:14:52 | 0.025 |
| 751 | 06/05/2019 | 04:15:52 | 0.025 |
| 752 | 06/05/2019 | 04:16:52 | 0.025 |
| 753 | 06/05/2019 | 04:17:52 | 0.025 |
| 754 | 06/05/2019 | 04:18:52 | 0.026 |
| 755 | 06/05/2019 | 04:19:52 | 0.025 |
| 756 | 06/05/2019 | 04:20:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 757 | 06/05/2019 | 04:21:52 | 0.025 |
| 758 | 06/05/2019 | 04:22:52 | 0.025 |
| 759 | 06/05/2019 | 04:23:52 | 0.025 |
| 760 | 06/05/2019 | 04:24:52 | 0.024 |
| 761 | 06/05/2019 | 04:25:52 | 0.025 |
| 762 | 06/05/2019 | 04:26:52 | 0.025 |
| 763 | 06/05/2019 | 04:27:52 | 0.025 |
| 764 | 06/05/2019 | 04:28:52 | 0.025 |
| 765 | 06/05/2019 | 04:29:52 | 0.025 |
| 766 | 06/05/2019 | 04:30:52 | 0.025 |
| 767 | 06/05/2019 | 04:31:52 | 0.025 |
| 768 | 06/05/2019 | 04:32:52 | 0.025 |
| 769 | 06/05/2019 | 04:33:52 | 0.025 |
| 770 | 06/05/2019 | 04:34:52 | 0.025 |
| 771 | 06/05/2019 | 04:35:52 | 0.025 |
| 772 | 06/05/2019 | 04:36:52 | 0.024 |
| 773 | 06/05/2019 | 04:37:52 | 0.025 |
| 774 | 06/05/2019 | 04:38:52 | 0.025 |
| 775 | 06/05/2019 | 04:39:52 | 0.025 |
| 776 | 06/05/2019 | 04:40:52 | 0.025 |
| 777 | 06/05/2019 | 04:41:52 | 0.025 |
| 778 | 06/05/2019 | 04:42:52 | 0.025 |
| 779 | 06/05/2019 | 04:43:52 | 0.025 |
| 780 | 06/05/2019 | 04:44:52 | 0.025 |
| 781 | 06/05/2019 | 04:45:52 | 0.025 |
| 782 | 06/05/2019 | 04:46:52 | 0.025 |
| 783 | 06/05/2019 | 04:47:52 | 0.027 |
| 784 | 06/05/2019 | 04:48:52 | 0.025 |
| 785 | 06/05/2019 | 04:49:52 | 0.025 |
| 786 | 06/05/2019 | 04:50:52 | 0.025 |
| 787 | 06/05/2019 | 04:51:52 | 0.025 |
| 788 | 06/05/2019 | 04:52:52 | 0.025 |
| 789 | 06/05/2019 | 04:53:52 | 0.025 |
| 790 | 06/05/2019 | 04:54:52 | 0.024 |
| 791 | 06/05/2019 | 04:55:52 | 0.025 |
| 792 | 06/05/2019 | 04:56:52 | 0.025 |
| 793 | 06/05/2019 | 04:57:52 | 0.025 |
| 794 | 06/05/2019 | 04:58:52 | 0.025 |
| 795 | 06/05/2019 | 04:59:52 | 0.025 |
| 796 | 06/05/2019 | 05:00:52 | 0.025 |
| 797 | 06/05/2019 | 05:01:52 | 0.026 |
| 798 | 06/05/2019 | 05:02:52 | 0.026 |
| 799 | 06/05/2019 | 05:03:52 | 0.025 |
| 800 | 06/05/2019 | 05:04:52 | 0.025 |
| 801 | 06/05/2019 | 05:05:52 | 0.025 |
| 802 | 06/05/2019 | 05:06:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 803 | 06/05/2019 | 05:07:52 | 0.025 |
| 804 | 06/05/2019 | 05:08:52 | 0.025 |
| 805 | 06/05/2019 | 05:09:52 | 0.025 |
| 806 | 06/05/2019 | 05:10:52 | 0.025 |
| 807 | 06/05/2019 | 05:11:52 | 0.025 |
| 808 | 06/05/2019 | 05:12:52 | 0.026 |
| 809 | 06/05/2019 | 05:13:52 | 0.024 |
| 810 | 06/05/2019 | 05:14:52 | 0.024 |
| 811 | 06/05/2019 | 05:15:52 | 0.024 |
| 812 | 06/05/2019 | 05:16:52 | 0.025 |
| 813 | 06/05/2019 | 05:17:52 | 0.025 |
| 814 | 06/05/2019 | 05:18:52 | 0.025 |
| 815 | 06/05/2019 | 05:19:52 | 0.025 |
| 816 | 06/05/2019 | 05:20:52 | 0.025 |
| 817 | 06/05/2019 | 05:21:52 | 0.024 |
| 818 | 06/05/2019 | 05:22:52 | 0.024 |
| 819 | 06/05/2019 | 05:23:52 | 0.024 |
| 820 | 06/05/2019 | 05:24:52 | 0.025 |
| 821 | 06/05/2019 | 05:25:52 | 0.025 |
| 822 | 06/05/2019 | 05:26:52 | 0.025 |
| 823 | 06/05/2019 | 05:27:52 | 0.025 |
| 824 | 06/05/2019 | 05:28:52 | 0.024 |
| 825 | 06/05/2019 | 05:29:52 | 0.025 |
| 826 | 06/05/2019 | 05:30:52 | 0.025 |
| 827 | 06/05/2019 | 05:31:52 | 0.025 |
| 828 | 06/05/2019 | 05:32:52 | 0.024 |
| 829 | 06/05/2019 | 05:33:52 | 0.025 |
| 830 | 06/05/2019 | 05:34:52 | 0.025 |
| 831 | 06/05/2019 | 05:35:52 | 0.024 |
| 832 | 06/05/2019 | 05:36:52 | 0.024 |
| 833 | 06/05/2019 | 05:37:52 | 0.025 |
| 834 | 06/05/2019 | 05:38:52 | 0.025 |
| 835 | 06/05/2019 | 05:39:52 | 0.025 |
| 836 | 06/05/2019 | 05:40:52 | 0.024 |
| 837 | 06/05/2019 | 05:41:52 | 0.025 |
| 838 | 06/05/2019 | 05:42:52 | 0.025 |
| 839 | 06/05/2019 | 05:43:52 | 0.024 |
| 840 | 06/05/2019 | 05:44:52 | 0.024 |
| 841 | 06/05/2019 | 05:45:52 | 0.025 |
| 842 | 06/05/2019 | 05:46:52 | 0.025 |
| 843 | 06/05/2019 | 05:47:52 | 0.025 |
| 844 | 06/05/2019 | 05:48:52 | 0.025 |
| 845 | 06/05/2019 | 05:49:52 | 0.025 |
| 846 | 06/05/2019 | 05:50:52 | 0.025 |
| 847 | 06/05/2019 | 05:51:52 | 0.025 |
| 848 | 06/05/2019 | 05:52:52 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 849 | 06/05/2019 | 05:53:52 | 0.025 |
| 850 | 06/05/2019 | 05:54:52 | 0.025 |
| 851 | 06/05/2019 | 05:55:52 | 0.025 |
| 852 | 06/05/2019 | 05:56:52 | 0.025 |
| 853 | 06/05/2019 | 05:57:52 | 0.025 |
| 854 | 06/05/2019 | 05:58:52 | 0.024 |
| 855 | 06/05/2019 | 05:59:52 | 0.024 |
| 856 | 06/05/2019 | 06:00:52 | 0.025 |
| 857 | 06/05/2019 | 06:01:52 | 0.025 |
| 858 | 06/05/2019 | 06:02:52 | 0.025 |
| 859 | 06/05/2019 | 06:03:52 | 0.025 |
| 860 | 06/05/2019 | 06:04:52 | 0.025 |
| 861 | 06/05/2019 | 06:05:52 | 0.025 |
| 862 | 06/05/2019 | 06:06:52 | 0.025 |
| 863 | 06/05/2019 | 06:07:52 | 0.025 |
| 864 | 06/05/2019 | 06:08:52 | 0.025 |
| 865 | 06/05/2019 | 06:09:52 | 0.024 |
| 866 | 06/05/2019 | 06:10:52 | 0.024 |
| 867 | 06/05/2019 | 06:11:52 | 0.025 |
| 868 | 06/05/2019 | 06:12:52 | 0.024 |
| 869 | 06/05/2019 | 06:13:52 | 0.025 |
| 870 | 06/05/2019 | 06:14:52 | 0.024 |
| 871 | 06/05/2019 | 06:15:52 | 0.025 |
| 872 | 06/05/2019 | 06:16:52 | 0.025 |
| 873 | 06/05/2019 | 06:17:52 | 0.025 |
| 874 | 06/05/2019 | 06:18:52 | 0.025 |
| 875 | 06/05/2019 | 06:19:52 | 0.025 |
| 876 | 06/05/2019 | 06:20:52 | 0.025 |
| 877 | 06/05/2019 | 06:21:52 | 0.025 |
| 878 | 06/05/2019 | 06:22:52 | 0.025 |
| 879 | 06/05/2019 | 06:23:52 | 0.025 |
| 880 | 06/05/2019 | 06:24:52 | 0.025 |
| 881 | 06/05/2019 | 06:25:52 | 0.025 |
| 882 | 06/05/2019 | 06:26:52 | 0.025 |
| 883 | 06/05/2019 | 06:27:52 | 0.025 |
| 884 | 06/05/2019 | 06:28:52 | 0.025 |
| 885 | 06/05/2019 | 06:29:52 | 0.025 |
| 886 | 06/05/2019 | 06:30:52 | 0.025 |
| 887 | 06/05/2019 | 06:31:52 | 0.025 |
| 888 | 06/05/2019 | 06:32:52 | 0.025 |
| 889 | 06/05/2019 | 06:33:52 | 0.025 |
| 890 | 06/05/2019 | 06:34:52 | 0.025 |
| 891 | 06/05/2019 | 06:35:52 | 0.025 |
| 892 | 06/05/2019 | 06:36:52 | 0.025 |
| 893 | 06/05/2019 | 06:37:52 | 0.025 |
| 894 | 06/05/2019 | 06:38:52 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 895 | 06/05/2019 | 06:39:52 | 0.025 |
| 896 | 06/05/2019 | 06:40:52 | 0.025 |
| 897 | 06/05/2019 | 06:41:52 | 0.025 |
| 898 | 06/05/2019 | 06:42:52 | 0.025 |
| 899 | 06/05/2019 | 06:43:52 | 0.025 |
| 900 | 06/05/2019 | 06:44:52 | 0.025 |
| 901 | 06/05/2019 | 06:45:52 | 0.025 |
| 902 | 06/05/2019 | 06:46:52 | 0.025 |
| 903 | 06/05/2019 | 06:47:52 | 0.025 |
| 904 | 06/05/2019 | 06:48:52 | 0.025 |
| 905 | 06/05/2019 | 06:49:52 | 0.025 |
| 906 | 06/05/2019 | 06:50:52 | 0.025 |
| 907 | 06/05/2019 | 06:51:52 | 0.025 |
| 908 | 06/05/2019 | 06:52:52 | 0.025 |
| 909 | 06/05/2019 | 06:53:52 | 0.025 |
| 910 | 06/05/2019 | 06:54:52 | 0.025 |
| 911 | 06/05/2019 | 06:55:52 | 0.025 |
| 912 | 06/05/2019 | 06:56:52 | 0.026 |
| 913 | 06/05/2019 | 06:57:52 | 0.025 |
| 914 | 06/05/2019 | 06:58:52 | 0.025 |
| 915 | 06/05/2019 | 06:59:52 | 0.026 |
| 916 | 06/05/2019 | 07:00:52 | 0.026 |
| 917 | 06/05/2019 | 07:01:52 | 0.026 |
| 918 | 06/05/2019 | 07:02:52 | 0.026 |
| 919 | 06/05/2019 | 07:03:52 | 0.026 |
| 920 | 06/05/2019 | 07:04:52 | 0.025 |
| 921 | 06/05/2019 | 07:05:52 | 0.026 |
| 922 | 06/05/2019 | 07:06:52 | 0.026 |
| 923 | 06/05/2019 | 07:07:52 | 0.026 |
| 924 | 06/05/2019 | 07:08:52 | 0.026 |
| 925 | 06/05/2019 | 07:09:52 | 0.026 |
| 926 | 06/05/2019 | 07:10:52 | 0.026 |
| 927 | 06/05/2019 | 07:11:52 | 0.026 |
| 928 | 06/05/2019 | 07:12:52 | 0.026 |
| 929 | 06/05/2019 | 07:13:52 | 0.026 |
| 930 | 06/05/2019 | 07:14:52 | 0.026 |
| 931 | 06/05/2019 | 07:15:52 | 0.027 |
| 932 | 06/05/2019 | 07:16:52 | 0.027 |
| 933 | 06/05/2019 | 07:17:52 | 0.026 |
| 934 | 06/05/2019 | 07:18:52 | 0.027 |
| 935 | 06/05/2019 | 07:19:52 | 0.027 |
| 936 | 06/05/2019 | 07:20:52 | 0.026 |
| 937 | 06/05/2019 | 07:21:52 | 0.026 |
| 938 | 06/05/2019 | 07:22:52 | 0.027 |
| 939 | 06/05/2019 | 07:23:52 | 0.026 |
| 940 | 06/05/2019 | 07:24:52 | 0.027 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 941 | 06/05/2019 | 07:25:52 | 0.027 |
| 942 | 06/05/2019 | 07:26:52 | 0.026 |
| 943 | 06/05/2019 | 07:27:52 | 0.026 |
| 944 | 06/05/2019 | 07:28:52 | 0.027 |
| 945 | 06/05/2019 | 07:29:52 | 0.027 |
| 946 | 06/05/2019 | 07:30:52 | 0.027 |
| 947 | 06/05/2019 | 07:31:52 | 0.027 |
| 948 | 06/05/2019 | 07:32:52 | 0.026 |
| 949 | 06/05/2019 | 07:33:52 | 0.027 |
| 950 | 06/05/2019 | 07:34:52 | 0.027 |
| 951 | 06/05/2019 | 07:35:52 | 0.027 |
| 952 | 06/05/2019 | 07:36:52 | 0.027 |
| 953 | 06/05/2019 | 07:37:52 | 0.027 |
| 954 | 06/05/2019 | 07:38:52 | 0.027 |
| 955 | 06/05/2019 | 07:39:52 | 0.027 |
| 956 | 06/05/2019 | 07:40:52 | 0.027 |
| 957 | 06/05/2019 | 07:41:52 | 0.027 |
| 958 | 06/05/2019 | 07:42:52 | 0.027 |
| 959 | 06/05/2019 | 07:43:52 | 0.028 |
| 960 | 06/05/2019 | 07:44:52 | 0.027 |
| 961 | 06/05/2019 | 07:45:52 | 0.027 |
| 962 | 06/05/2019 | 07:46:52 | 0.027 |
| 963 | 06/05/2019 | 07:47:52 | 0.027 |
| 964 | 06/05/2019 | 07:48:52 | 0.027 |
| 965 | 06/05/2019 | 07:49:52 | 0.027 |
| 966 | 06/05/2019 | 07:50:52 | 0.027 |
| 967 | 06/05/2019 | 07:51:52 | 0.028 |
| 968 | 06/05/2019 | 07:52:52 | 0.027 |
| 969 | 06/05/2019 | 07:53:52 | 0.028 |
| 970 | 06/05/2019 | 07:54:52 | 0.028 |
| 971 | 06/05/2019 | 07:55:52 | 0.028 |
| 972 | 06/05/2019 | 07:56:52 | 0.028 |
| 973 | 06/05/2019 | 07:57:52 | 0.028 |
| 974 | 06/05/2019 | 07:58:52 | 0.029 |
| 975 | 06/05/2019 | 07:59:52 | 0.028 |
| 976 | 06/05/2019 | 08:00:52 | 0.027 |
| 977 | 06/05/2019 | 08:01:52 | 0.028 |
| 978 | 06/05/2019 | 08:02:52 | 0.032 |
| 979 | 06/05/2019 | 08:03:52 | 0.072 |
| 980 | 06/05/2019 | 08:04:52 | 0.076 |
| 981 | 06/05/2019 | 08:05:52 | 0.055 |
| 982 | 06/05/2019 | 08:06:52 | 0.040 |
| 983 | 06/05/2019 | 08:07:52 | 0.050 |
| 984 | 06/05/2019 | 08:08:52 | 0.053 |
| 985 | 06/05/2019 | 08:09:52 | 0.046 |
| 986 | 06/05/2019 | 08:10:52 | 0.048 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |

# Test 005

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/05/2019 |
| Instrument S/N | 8530132432 | Start Time | 08:30:35 |
| | | Stop Date | 06/05/2019 |
| | | Stop Time | 14:24:35 |
| | | Total Time | 0:05:54:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.228 mg/m^3 |
| Max | 0.685 mg/m^3 |
| Max Date | 06/05/2019 |
| Max Time | 10:42:35 |
| Min | 0.038 mg/m^3 |
| Min Date | 06/05/2019 |
| Min Time | 12:21:35 |
| TWA (8 hr) | 0.168 |
| TWA Start Date | 06/05/2019 |
| TWA Start Time | 08:30:35 |
| TWA End Time | 14:24:35 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/05/2019 | 08:31:35 | 0.070 |
| 2 | 06/05/2019 | 08:32:35 | 0.127 |
| 3 | 06/05/2019 | 08:33:35 | 0.195 |
| 4 | 06/05/2019 | 08:34:35 | 0.248 |
| 5 | 06/05/2019 | 08:35:35 | 0.152 |
| 6 | 06/05/2019 | 08:36:35 | 0.234 |
| 7 | 06/05/2019 | 08:37:35 | 0.350 |
| 8 | 06/05/2019 | 08:38:35 | 0.323 |
| 9 | 06/05/2019 | 08:39:35 | 0.328 |
| 10 | 06/05/2019 | 08:40:35 | 0.201 |
| 11 | 06/05/2019 | 08:41:35 | 0.156 |
| 12 | 06/05/2019 | 08:42:35 | 0.130 |
| 13 | 06/05/2019 | 08:43:35 | 0.170 |
| 14 | 06/05/2019 | 08:44:35 | 0.200 |
| 15 | 06/05/2019 | 08:45:35 | 0.282 |
| 16 | 06/05/2019 | 08:46:35 | 0.134 |
| 17 | 06/05/2019 | 08:47:35 | 0.235 |
| 18 | 06/05/2019 | 08:48:35 | 0.280 |
| 19 | 06/05/2019 | 08:49:35 | 0.409 |
| 20 | 06/05/2019 | 08:50:35 | 0.333 |
| 21 | 06/05/2019 | 08:51:35 | 0.281 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 06/05/2019 | 08:52:35 | 0.302 |
| 23 | 06/05/2019 | 08:53:35 | 0.382 |
| 24 | 06/05/2019 | 08:54:35 | 0.436 |
| 25 | 06/05/2019 | 08:55:35 | 0.411 |
| 26 | 06/05/2019 | 08:56:35 | 0.342 |
| 27 | 06/05/2019 | 08:57:35 | 0.176 |
| 28 | 06/05/2019 | 08:58:35 | 0.188 |
| 29 | 06/05/2019 | 08:59:35 | 0.377 |
| 30 | 06/05/2019 | 09:00:35 | 0.182 |
| 31 | 06/05/2019 | 09:01:35 | 0.434 |
| 32 | 06/05/2019 | 09:02:35 | 0.261 |
| 33 | 06/05/2019 | 09:03:35 | 0.249 |
| 34 | 06/05/2019 | 09:04:35 | 0.238 |
| 35 | 06/05/2019 | 09:05:35 | 0.252 |
| 36 | 06/05/2019 | 09:06:35 | 0.289 |
| 37 | 06/05/2019 | 09:07:35 | 0.331 |
| 38 | 06/05/2019 | 09:08:35 | 0.548 |
| 39 | 06/05/2019 | 09:09:35 | 0.248 |
| 40 | 06/05/2019 | 09:10:35 | 0.229 |
| 41 | 06/05/2019 | 09:11:35 | 0.375 |
| 42 | 06/05/2019 | 09:12:35 | 0.462 |
| 43 | 06/05/2019 | 09:13:35 | 0.200 |
| 44 | 06/05/2019 | 09:14:35 | 0.318 |
| 45 | 06/05/2019 | 09:15:35 | 0.267 |
| 46 | 06/05/2019 | 09:16:35 | 0.426 |
| 47 | 06/05/2019 | 09:17:35 | 0.320 |
| 48 | 06/05/2019 | 09:18:35 | 0.288 |
| 49 | 06/05/2019 | 09:19:35 | 0.255 |
| 50 | 06/05/2019 | 09:20:35 | 0.287 |
| 51 | 06/05/2019 | 09:21:35 | 0.266 |
| 52 | 06/05/2019 | 09:22:35 | 0.243 |
| 53 | 06/05/2019 | 09:23:35 | 0.464 |
| 54 | 06/05/2019 | 09:24:35 | 0.329 |
| 55 | 06/05/2019 | 09:25:35 | 0.470 |
| 56 | 06/05/2019 | 09:26:35 | 0.536 |
| 57 | 06/05/2019 | 09:27:35 | 0.391 |
| 58 | 06/05/2019 | 09:28:35 | 0.379 |
| 59 | 06/05/2019 | 09:29:35 | 0.520 |
| 60 | 06/05/2019 | 09:30:35 | 0.517 |
| 61 | 06/05/2019 | 09:31:35 | 0.501 |
| 62 | 06/05/2019 | 09:32:35 | 0.495 |
| 63 | 06/05/2019 | 09:33:35 | 0.326 |
| 64 | 06/05/2019 | 09:34:35 | 0.382 |
| 65 | 06/05/2019 | 09:35:35 | 0.480 |
| 66 | 06/05/2019 | 09:36:35 | 0.468 |
| 67 | 06/05/2019 | 09:37:35 | 0.492 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 06/05/2019 | 09:38:35 | 0.462 |
| 69 | 06/05/2019 | 09:39:35 | 0.409 |
| 70 | 06/05/2019 | 09:40:35 | 0.272 |
| 71 | 06/05/2019 | 09:41:35 | 0.303 |
| 72 | 06/05/2019 | 09:42:35 | 0.354 |
| 73 | 06/05/2019 | 09:43:35 | 0.344 |
| 74 | 06/05/2019 | 09:44:35 | 0.354 |
| 75 | 06/05/2019 | 09:45:35 | 0.417 |
| 76 | 06/05/2019 | 09:46:35 | 0.320 |
| 77 | 06/05/2019 | 09:47:35 | 0.399 |
| 78 | 06/05/2019 | 09:48:35 | 0.315 |
| 79 | 06/05/2019 | 09:49:35 | 0.405 |
| 80 | 06/05/2019 | 09:50:35 | 0.427 |
| 81 | 06/05/2019 | 09:51:35 | 0.342 |
| 82 | 06/05/2019 | 09:52:35 | 0.390 |
| 83 | 06/05/2019 | 09:53:35 | 0.362 |
| 84 | 06/05/2019 | 09:54:35 | 0.399 |
| 85 | 06/05/2019 | 09:55:35 | 0.262 |
| 86 | 06/05/2019 | 09:56:35 | 0.258 |
| 87 | 06/05/2019 | 09:57:35 | 0.196 |
| 88 | 06/05/2019 | 09:58:35 | 0.197 |
| 89 | 06/05/2019 | 09:59:35 | 0.230 |
| 90 | 06/05/2019 | 10:00:35 | 0.391 |
| 91 | 06/05/2019 | 10:01:35 | 0.352 |
| 92 | 06/05/2019 | 10:02:35 | 0.294 |
| 93 | 06/05/2019 | 10:03:35 | 0.271 |
| 94 | 06/05/2019 | 10:04:35 | 0.281 |
| 95 | 06/05/2019 | 10:05:35 | 0.274 |
| 96 | 06/05/2019 | 10:06:35 | 0.258 |
| 97 | 06/05/2019 | 10:07:35 | 0.270 |
| 98 | 06/05/2019 | 10:08:35 | 0.300 |
| 99 | 06/05/2019 | 10:09:35 | 0.282 |
| 100 | 06/05/2019 | 10:10:35 | 0.215 |
| 101 | 06/05/2019 | 10:11:35 | 0.350 |
| 102 | 06/05/2019 | 10:12:35 | 0.287 |
| 103 | 06/05/2019 | 10:13:35 | 0.354 |
| 104 | 06/05/2019 | 10:14:35 | 0.326 |
| 105 | 06/05/2019 | 10:15:35 | 0.308 |
| 106 | 06/05/2019 | 10:16:35 | 0.262 |
| 107 | 06/05/2019 | 10:17:35 | 0.310 |
| 108 | 06/05/2019 | 10:18:35 | 0.255 |
| 109 | 06/05/2019 | 10:19:35 | 0.334 |
| 110 | 06/05/2019 | 10:20:35 | 0.407 |
| 111 | 06/05/2019 | 10:21:35 | 0.330 |
| 112 | 06/05/2019 | 10:22:35 | 0.289 |
| 113 | 06/05/2019 | 10:23:35 | 0.237 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 06/05/2019 | 10:24:35 | 0.282 |
| 115 | 06/05/2019 | 10:25:35 | 0.425 |
| 116 | 06/05/2019 | 10:26:35 | 0.352 |
| 117 | 06/05/2019 | 10:27:35 | 0.403 |
| 118 | 06/05/2019 | 10:28:35 | 0.423 |
| 119 | 06/05/2019 | 10:29:35 | 0.399 |
| 120 | 06/05/2019 | 10:30:35 | 0.281 |
| 121 | 06/05/2019 | 10:31:35 | 0.266 |
| 122 | 06/05/2019 | 10:32:35 | 0.320 |
| 123 | 06/05/2019 | 10:33:35 | 0.324 |
| 124 | 06/05/2019 | 10:34:35 | 0.249 |
| 125 | 06/05/2019 | 10:35:35 | 0.362 |
| 126 | 06/05/2019 | 10:36:35 | 0.424 |
| 127 | 06/05/2019 | 10:37:35 | 0.507 |
| 128 | 06/05/2019 | 10:38:35 | 0.537 |
| 129 | 06/05/2019 | 10:39:35 | 0.590 |
| 130 | 06/05/2019 | 10:40:35 | 0.628 |
| 131 | 06/05/2019 | 10:41:35 | 0.681 |
| 132 | 06/05/2019 | 10:42:35 | 0.685 |
| 133 | 06/05/2019 | 10:43:35 | 0.452 |
| 134 | 06/05/2019 | 10:44:35 | 0.456 |
| 135 | 06/05/2019 | 10:45:35 | 0.456 |
| 136 | 06/05/2019 | 10:46:35 | 0.328 |
| 137 | 06/05/2019 | 10:47:35 | 0.409 |
| 138 | 06/05/2019 | 10:48:35 | 0.305 |
| 139 | 06/05/2019 | 10:49:35 | 0.351 |
| 140 | 06/05/2019 | 10:50:35 | 0.292 |
| 141 | 06/05/2019 | 10:51:35 | 0.306 |
| 142 | 06/05/2019 | 10:52:35 | 0.348 |
| 143 | 06/05/2019 | 10:53:35 | 0.241 |
| 144 | 06/05/2019 | 10:54:35 | 0.324 |
| 145 | 06/05/2019 | 10:55:35 | 0.355 |
| 146 | 06/05/2019 | 10:56:35 | 0.282 |
| 147 | 06/05/2019 | 10:57:35 | 0.224 |
| 148 | 06/05/2019 | 10:58:35 | 0.247 |
| 149 | 06/05/2019 | 10:59:35 | 0.163 |
| 150 | 06/05/2019 | 11:00:35 | 0.167 |
| 151 | 06/05/2019 | 11:01:35 | 0.298 |
| 152 | 06/05/2019 | 11:02:35 | 0.297 |
| 153 | 06/05/2019 | 11:03:35 | 0.238 |
| 154 | 06/05/2019 | 11:04:35 | 0.273 |
| 155 | 06/05/2019 | 11:05:35 | 0.275 |
| 156 | 06/05/2019 | 11:06:35 | 0.272 |
| 157 | 06/05/2019 | 11:07:35 | 0.286 |
| 158 | 06/05/2019 | 11:08:35 | 0.330 |
| 159 | 06/05/2019 | 11:09:35 | 0.383 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 06/05/2019 | 11:10:35 | 0.361 |
| 161 | 06/05/2019 | 11:11:35 | 0.543 |
| 162 | 06/05/2019 | 11:12:35 | 0.644 |
| 163 | 06/05/2019 | 11:13:35 | 0.373 |
| 164 | 06/05/2019 | 11:14:35 | 0.366 |
| 165 | 06/05/2019 | 11:15:35 | 0.255 |
| 166 | 06/05/2019 | 11:16:35 | 0.258 |
| 167 | 06/05/2019 | 11:17:35 | 0.232 |
| 168 | 06/05/2019 | 11:18:35 | 0.276 |
| 169 | 06/05/2019 | 11:19:35 | 0.180 |
| 170 | 06/05/2019 | 11:20:35 | 0.224 |
| 171 | 06/05/2019 | 11:21:35 | 0.153 |
| 172 | 06/05/2019 | 11:22:35 | 0.184 |
| 173 | 06/05/2019 | 11:23:35 | 0.184 |
| 174 | 06/05/2019 | 11:24:35 | 0.194 |
| 175 | 06/05/2019 | 11:25:35 | 0.130 |
| 176 | 06/05/2019 | 11:26:35 | 0.169 |
| 177 | 06/05/2019 | 11:27:35 | 0.100 |
| 178 | 06/05/2019 | 11:28:35 | 0.130 |
| 179 | 06/05/2019 | 11:29:35 | 0.128 |
| 180 | 06/05/2019 | 11:30:35 | 0.124 |
| 181 | 06/05/2019 | 11:31:35 | 0.135 |
| 182 | 06/05/2019 | 11:32:35 | 0.095 |
| 183 | 06/05/2019 | 11:33:35 | 0.090 |
| 184 | 06/05/2019 | 11:34:35 | 0.075 |
| 185 | 06/05/2019 | 11:35:35 | 0.077 |
| 186 | 06/05/2019 | 11:36:35 | 0.071 |
| 187 | 06/05/2019 | 11:37:35 | 0.065 |
| 188 | 06/05/2019 | 11:38:35 | 0.064 |
| 189 | 06/05/2019 | 11:39:35 | 0.058 |
| 190 | 06/05/2019 | 11:40:35 | 0.077 |
| 191 | 06/05/2019 | 11:41:35 | 0.093 |
| 192 | 06/05/2019 | 11:42:35 | 0.065 |
| 193 | 06/05/2019 | 11:43:35 | 0.064 |
| 194 | 06/05/2019 | 11:44:35 | 0.068 |
| 195 | 06/05/2019 | 11:45:35 | 0.053 |
| 196 | 06/05/2019 | 11:46:35 | 0.058 |
| 197 | 06/05/2019 | 11:47:35 | 0.058 |
| 198 | 06/05/2019 | 11:48:35 | 0.058 |
| 199 | 06/05/2019 | 11:49:35 | 0.053 |
| 200 | 06/05/2019 | 11:50:35 | 0.050 |
| 201 | 06/05/2019 | 11:51:35 | 0.054 |
| 202 | 06/05/2019 | 11:52:35 | 0.053 |
| 203 | 06/05/2019 | 11:53:35 | 0.055 |
| 204 | 06/05/2019 | 11:54:35 | 0.057 |
| 205 | 06/05/2019 | 11:55:35 | 0.049 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 06/05/2019 | 11:56:35 | 0.049 |
| 207 | 06/05/2019 | 11:57:35 | 0.050 |
| 208 | 06/05/2019 | 11:58:35 | 0.056 |
| 209 | 06/05/2019 | 11:59:35 | 0.051 |
| 210 | 06/05/2019 | 12:00:35 | 0.051 |
| 211 | 06/05/2019 | 12:01:35 | 0.053 |
| 212 | 06/05/2019 | 12:02:35 | 0.050 |
| 213 | 06/05/2019 | 12:03:35 | 0.049 |
| 214 | 06/05/2019 | 12:04:35 | 0.050 |
| 215 | 06/05/2019 | 12:05:35 | 0.050 |
| 216 | 06/05/2019 | 12:06:35 | 0.049 |
| 217 | 06/05/2019 | 12:07:35 | 0.044 |
| 218 | 06/05/2019 | 12:08:35 | 0.047 |
| 219 | 06/05/2019 | 12:09:35 | 0.048 |
| 220 | 06/05/2019 | 12:10:35 | 0.046 |
| 221 | 06/05/2019 | 12:11:35 | 0.043 |
| 222 | 06/05/2019 | 12:12:35 | 0.043 |
| 223 | 06/05/2019 | 12:13:35 | 0.041 |
| 224 | 06/05/2019 | 12:14:35 | 0.043 |
| 225 | 06/05/2019 | 12:15:35 | 0.044 |
| 226 | 06/05/2019 | 12:16:35 | 0.043 |
| 227 | 06/05/2019 | 12:17:35 | 0.044 |
| 228 | 06/05/2019 | 12:18:35 | 0.041 |
| 229 | 06/05/2019 | 12:19:35 | 0.044 |
| 230 | 06/05/2019 | 12:20:35 | 0.045 |
| 231 | 06/05/2019 | 12:21:35 | 0.038 |
| 232 | 06/05/2019 | 12:22:35 | 0.039 |
| 233 | 06/05/2019 | 12:23:35 | 0.047 |
| 234 | 06/05/2019 | 12:24:35 | 0.049 |
| 235 | 06/05/2019 | 12:25:35 | 0.046 |
| 236 | 06/05/2019 | 12:26:35 | 0.043 |
| 237 | 06/05/2019 | 12:27:35 | 0.042 |
| 238 | 06/05/2019 | 12:28:35 | 0.040 |
| 239 | 06/05/2019 | 12:29:35 | 0.044 |
| 240 | 06/05/2019 | 12:30:35 | 0.047 |
| 241 | 06/05/2019 | 12:31:35 | 0.046 |
| 242 | 06/05/2019 | 12:32:35 | 0.042 |
| 243 | 06/05/2019 | 12:33:35 | 0.041 |
| 244 | 06/05/2019 | 12:34:35 | 0.044 |
| 245 | 06/05/2019 | 12:35:35 | 0.044 |
| 246 | 06/05/2019 | 12:36:35 | 0.042 |
| 247 | 06/05/2019 | 12:37:35 | 0.043 |
| 248 | 06/05/2019 | 12:38:35 | 0.045 |
| 249 | 06/05/2019 | 12:39:35 | 0.083 |
| 250 | 06/05/2019 | 12:40:35 | 0.060 |
| 251 | 06/05/2019 | 12:41:35 | 0.051 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 06/05/2019 | 12:42:35 | 0.056 |
| 253 | 06/05/2019 | 12:43:35 | 0.057 |
| 254 | 06/05/2019 | 12:44:35 | 0.053 |
| 255 | 06/05/2019 | 12:45:35 | 0.053 |
| 256 | 06/05/2019 | 12:46:35 | 0.055 |
| 257 | 06/05/2019 | 12:47:35 | 0.051 |
| 258 | 06/05/2019 | 12:48:35 | 0.054 |
| 259 | 06/05/2019 | 12:49:35 | 0.049 |
| 260 | 06/05/2019 | 12:50:35 | 0.046 |
| 261 | 06/05/2019 | 12:51:35 | 0.070 |
| 262 | 06/05/2019 | 12:52:35 | 0.102 |
| 263 | 06/05/2019 | 12:53:35 | 0.071 |
| 264 | 06/05/2019 | 12:54:35 | 0.116 |
| 265 | 06/05/2019 | 12:55:35 | 0.176 |
| 266 | 06/05/2019 | 12:56:35 | 0.285 |
| 267 | 06/05/2019 | 12:57:35 | 0.184 |
| 268 | 06/05/2019 | 12:58:35 | 0.149 |
| 269 | 06/05/2019 | 12:59:35 | 0.171 |
| 270 | 06/05/2019 | 13:00:35 | 0.177 |
| 271 | 06/05/2019 | 13:01:35 | 0.203 |
| 272 | 06/05/2019 | 13:02:35 | 0.211 |
| 273 | 06/05/2019 | 13:03:35 | 0.219 |
| 274 | 06/05/2019 | 13:04:35 | 0.251 |
| 275 | 06/05/2019 | 13:05:35 | 0.225 |
| 276 | 06/05/2019 | 13:06:35 | 0.223 |
| 277 | 06/05/2019 | 13:07:35 | 0.324 |
| 278 | 06/05/2019 | 13:08:35 | 0.222 |
| 279 | 06/05/2019 | 13:09:35 | 0.242 |
| 280 | 06/05/2019 | 13:10:35 | 0.203 |
| 281 | 06/05/2019 | 13:11:35 | 0.304 |
| 282 | 06/05/2019 | 13:12:35 | 0.214 |
| 283 | 06/05/2019 | 13:13:35 | 0.274 |
| 284 | 06/05/2019 | 13:14:35 | 0.396 |
| 285 | 06/05/2019 | 13:15:35 | 0.272 |
| 286 | 06/05/2019 | 13:16:35 | 0.234 |
| 287 | 06/05/2019 | 13:17:35 | 0.320 |
| 288 | 06/05/2019 | 13:18:35 | 0.419 |
| 289 | 06/05/2019 | 13:19:35 | 0.413 |
| 290 | 06/05/2019 | 13:20:35 | 0.431 |
| 291 | 06/05/2019 | 13:21:35 | 0.395 |
| 292 | 06/05/2019 | 13:22:35 | 0.337 |
| 293 | 06/05/2019 | 13:23:35 | 0.588 |
| 294 | 06/05/2019 | 13:24:35 | 0.461 |
| 295 | 06/05/2019 | 13:25:35 | 0.401 |
| 296 | 06/05/2019 | 13:26:35 | 0.451 |
| 297 | 06/05/2019 | 13:27:35 | 0.352 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 06/05/2019 | 13:28:35 | 0.380 |
| 299 | 06/05/2019 | 13:29:35 | 0.607 |
| 300 | 06/05/2019 | 13:30:35 | 0.527 |
| 301 | 06/05/2019 | 13:31:35 | 0.475 |
| 302 | 06/05/2019 | 13:32:35 | 0.467 |
| 303 | 06/05/2019 | 13:33:35 | 0.496 |
| 304 | 06/05/2019 | 13:34:35 | 0.213 |
| 305 | 06/05/2019 | 13:35:35 | 0.257 |
| 306 | 06/05/2019 | 13:36:35 | 0.199 |
| 307 | 06/05/2019 | 13:37:35 | 0.183 |
| 308 | 06/05/2019 | 13:38:35 | 0.305 |
| 309 | 06/05/2019 | 13:39:35 | 0.210 |
| 310 | 06/05/2019 | 13:40:35 | 0.255 |
| 311 | 06/05/2019 | 13:41:35 | 0.194 |
| 312 | 06/05/2019 | 13:42:35 | 0.168 |
| 313 | 06/05/2019 | 13:43:35 | 0.252 |
| 314 | 06/05/2019 | 13:44:35 | 0.168 |
| 315 | 06/05/2019 | 13:45:35 | 0.169 |
| 316 | 06/05/2019 | 13:46:35 | 0.149 |
| 317 | 06/05/2019 | 13:47:35 | 0.143 |
| 318 | 06/05/2019 | 13:48:35 | 0.125 |
| 319 | 06/05/2019 | 13:49:35 | 0.139 |
| 320 | 06/05/2019 | 13:50:35 | 0.104 |
| 321 | 06/05/2019 | 13:51:35 | 0.123 |
| 322 | 06/05/2019 | 13:52:35 | 0.127 |
| 323 | 06/05/2019 | 13:53:35 | 0.121 |
| 324 | 06/05/2019 | 13:54:35 | 0.122 |
| 325 | 06/05/2019 | 13:55:35 | 0.127 |
| 326 | 06/05/2019 | 13:56:35 | 0.118 |
| 327 | 06/05/2019 | 13:57:35 | 0.095 |
| 328 | 06/05/2019 | 13:58:35 | 0.103 |
| 329 | 06/05/2019 | 13:59:35 | 0.090 |
| 330 | 06/05/2019 | 14:00:35 | 0.082 |
| 331 | 06/05/2019 | 14:01:35 | 0.093 |
| 332 | 06/05/2019 | 14:02:35 | 0.067 |
| 333 | 06/05/2019 | 14:03:35 | 0.072 |
| 334 | 06/05/2019 | 14:04:35 | 0.067 |
| 335 | 06/05/2019 | 14:05:35 | 0.081 |
| 336 | 06/05/2019 | 14:06:35 | 0.061 |
| 337 | 06/05/2019 | 14:07:35 | 0.060 |
| 338 | 06/05/2019 | 14:08:35 | 0.061 |
| 339 | 06/05/2019 | 14:09:35 | 0.058 |
| 340 | 06/05/2019 | 14:10:35 | 0.063 |
| 341 | 06/05/2019 | 14:11:35 | 0.057 |
| 342 | 06/05/2019 | 14:12:35 | 0.074 |
| 343 | 06/05/2019 | 14:13:35 | 0.062 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 344 | 06/05/2019 | 14:14:35 | 0.058 |
| 345 | 06/05/2019 | 14:15:35 | 0.058 |
| 346 | 06/05/2019 | 14:16:35 | 0.061 |
| 347 | 06/05/2019 | 14:17:35 | 0.056 |
| 348 | 06/05/2019 | 14:18:35 | 0.054 |
| 349 | 06/05/2019 | 14:19:35 | 0.059 |
| 350 | 06/05/2019 | 14:20:35 | 0.054 |
| 351 | 06/05/2019 | 14:21:35 | 0.057 |
| 352 | 06/05/2019 | 14:22:35 | 0.056 |
| 353 | 06/05/2019 | 14:23:35 | 0.051 |
| 354 | 06/05/2019 | 14:24:35 | 0.051 |

# Test 001

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 05/30/2019 |
| Instrument S/N | 8530171505 | Start Time | 13:39:45 |
| | | Stop Date | 05/30/2019 |
| | | Stop Time | 15:45:45 |
| | | Total Time | 0:02:06:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.054 mg/m^3 |
| Max | 0.114 mg/m^3 |
| Max Date | 05/30/2019 |
| Max Time | 15:15:45 |
| Min | 0.021 mg/m^3 |
| Min Date | 05/30/2019 |
| Min Time | 14:36:45 |
| TWA (8 hr) | 0.014 |
| TWA Start Date | 05/30/2019 |
| TWA Start Time | 13:39:45 |
| TWA End Time | 15:45:45 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 05/30/2019 | 13:40:45 | 0.044 |
| 2 | 05/30/2019 | 13:41:45 | 0.038 |
| 3 | 05/30/2019 | 13:42:45 | 0.053 |
| 4 | 05/30/2019 | 13:43:45 | 0.061 |
| 5 | 05/30/2019 | 13:44:45 | 0.025 |
| 6 | 05/30/2019 | 13:45:45 | 0.037 |
| 7 | 05/30/2019 | 13:46:45 | 0.063 |
| 8 | 05/30/2019 | 13:47:45 | 0.064 |
| 9 | 05/30/2019 | 13:48:45 | 0.055 |
| 10 | 05/30/2019 | 13:49:45 | 0.028 |
| 11 | 05/30/2019 | 13:50:45 | 0.060 |
| 12 | 05/30/2019 | 13:51:45 | 0.072 |
| 13 | 05/30/2019 | 13:52:45 | 0.065 |
| 14 | 05/30/2019 | 13:53:45 | 0.075 |
| 15 | 05/30/2019 | 13:54:45 | 0.091 |
| 16 | 05/30/2019 | 13:55:45 | 0.072 |
| 17 | 05/30/2019 | 13:56:45 | 0.108 |
| 18 | 05/30/2019 | 13:57:45 | 0.055 |
| 19 | 05/30/2019 | 13:58:45 | 0.056 |
| 20 | 05/30/2019 | 13:59:45 | 0.059 |
| 21 | 05/30/2019 | 14:00:45 | 0.058 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 05/30/2019 | 14:01:45 | 0.053 |
| 23 | 05/30/2019 | 14:02:45 | 0.051 |
| 24 | 05/30/2019 | 14:03:45 | 0.058 |
| 25 | 05/30/2019 | 14:04:45 | 0.056 |
| 26 | 05/30/2019 | 14:05:45 | 0.025 |
| 27 | 05/30/2019 | 14:06:45 | 0.047 |
| 28 | 05/30/2019 | 14:07:45 | 0.054 |
| 29 | 05/30/2019 | 14:08:45 | 0.047 |
| 30 | 05/30/2019 | 14:09:45 | 0.048 |
| 31 | 05/30/2019 | 14:10:45 | 0.048 |
| 32 | 05/30/2019 | 14:11:45 | 0.082 |
| 33 | 05/30/2019 | 14:12:45 | 0.074 |
| 34 | 05/30/2019 | 14:13:45 | 0.035 |
| 35 | 05/30/2019 | 14:14:45 | 0.026 |
| 36 | 05/30/2019 | 14:15:45 | 0.032 |
| 37 | 05/30/2019 | 14:16:45 | 0.043 |
| 38 | 05/30/2019 | 14:17:45 | 0.053 |
| 39 | 05/30/2019 | 14:18:45 | 0.049 |
| 40 | 05/30/2019 | 14:19:45 | 0.038 |
| 41 | 05/30/2019 | 14:20:45 | 0.047 |
| 42 | 05/30/2019 | 14:21:45 | 0.029 |
| 43 | 05/30/2019 | 14:22:45 | 0.025 |
| 44 | 05/30/2019 | 14:23:45 | 0.028 |
| 45 | 05/30/2019 | 14:24:45 | 0.029 |
| 46 | 05/30/2019 | 14:25:45 | 0.039 |
| 47 | 05/30/2019 | 14:26:45 | 0.053 |
| 48 | 05/30/2019 | 14:27:45 | 0.079 |
| 49 | 05/30/2019 | 14:28:45 | 0.064 |
| 50 | 05/30/2019 | 14:29:45 | 0.068 |
| 51 | 05/30/2019 | 14:30:45 | 0.024 |
| 52 | 05/30/2019 | 14:31:45 | 0.032 |
| 53 | 05/30/2019 | 14:32:45 | 0.030 |
| 54 | 05/30/2019 | 14:33:45 | 0.023 |
| 55 | 05/30/2019 | 14:34:45 | 0.022 |
| 56 | 05/30/2019 | 14:35:45 | 0.025 |
| 57 | 05/30/2019 | 14:36:45 | 0.021 |
| 58 | 05/30/2019 | 14:37:45 | 0.021 |
| 59 | 05/30/2019 | 14:38:45 | 0.027 |
| 60 | 05/30/2019 | 14:39:45 | 0.051 |
| 61 | 05/30/2019 | 14:40:45 | 0.025 |
| 62 | 05/30/2019 | 14:41:45 | 0.058 |
| 63 | 05/30/2019 | 14:42:45 | 0.026 |
| 64 | 05/30/2019 | 14:43:45 | 0.030 |
| 65 | 05/30/2019 | 14:44:45 | 0.068 |
| 66 | 05/30/2019 | 14:45:45 | 0.069 |
| 67 | 05/30/2019 | 14:46:45 | 0.054 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 05/30/2019 | 14:47:45 | 0.048 |
| 69 | 05/30/2019 | 14:48:45 | 0.051 |
| 70 | 05/30/2019 | 14:49:45 | 0.046 |
| 71 | 05/30/2019 | 14:50:45 | 0.044 |
| 72 | 05/30/2019 | 14:51:45 | 0.081 |
| 73 | 05/30/2019 | 14:52:45 | 0.065 |
| 74 | 05/30/2019 | 14:53:45 | 0.051 |
| 75 | 05/30/2019 | 14:54:45 | 0.071 |
| 76 | 05/30/2019 | 14:55:45 | 0.035 |
| 77 | 05/30/2019 | 14:56:45 | 0.066 |
| 78 | 05/30/2019 | 14:57:45 | 0.093 |
| 79 | 05/30/2019 | 14:58:45 | 0.068 |
| 80 | 05/30/2019 | 14:59:45 | 0.084 |
| 81 | 05/30/2019 | 15:00:45 | 0.072 |
| 82 | 05/30/2019 | 15:01:45 | 0.088 |
| 83 | 05/30/2019 | 15:02:45 | 0.046 |
| 84 | 05/30/2019 | 15:03:45 | 0.032 |
| 85 | 05/30/2019 | 15:04:45 | 0.041 |
| 86 | 05/30/2019 | 15:05:45 | 0.025 |
| 87 | 05/30/2019 | 15:06:45 | 0.045 |
| 88 | 05/30/2019 | 15:07:45 | 0.051 |
| 89 | 05/30/2019 | 15:08:45 | 0.061 |
| 90 | 05/30/2019 | 15:09:45 | 0.065 |
| 91 | 05/30/2019 | 15:10:45 | 0.094 |
| 92 | 05/30/2019 | 15:11:45 | 0.090 |
| 93 | 05/30/2019 | 15:12:45 | 0.066 |
| 94 | 05/30/2019 | 15:13:45 | 0.088 |
| 95 | 05/30/2019 | 15:14:45 | 0.068 |
| 96 | 05/30/2019 | 15:15:45 | 0.114 |
| 97 | 05/30/2019 | 15:16:45 | 0.040 |
| 98 | 05/30/2019 | 15:17:45 | 0.069 |
| 99 | 05/30/2019 | 15:18:45 | 0.070 |
| 100 | 05/30/2019 | 15:19:45 | 0.042 |
| 101 | 05/30/2019 | 15:20:45 | 0.056 |
| 102 | 05/30/2019 | 15:21:45 | 0.073 |
| 103 | 05/30/2019 | 15:22:45 | 0.080 |
| 104 | 05/30/2019 | 15:23:45 | 0.076 |
| 105 | 05/30/2019 | 15:24:45 | 0.088 |
| 106 | 05/30/2019 | 15:25:45 | 0.055 |
| 107 | 05/30/2019 | 15:26:45 | 0.075 |
| 108 | 05/30/2019 | 15:27:45 | 0.047 |
| 109 | 05/30/2019 | 15:28:45 | 0.067 |
| 110 | 05/30/2019 | 15:29:45 | 0.062 |
| 111 | 05/30/2019 | 15:30:45 | 0.052 |
| 112 | 05/30/2019 | 15:31:45 | 0.050 |
| 113 | 05/30/2019 | 15:32:45 | 0.048 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 05/30/2019 | 15:33:45 | 0.064 |
| 115 | 05/30/2019 | 15:34:45 | 0.040 |
| 116 | 05/30/2019 | 15:35:45 | 0.061 |
| 117 | 05/30/2019 | 15:36:45 | 0.058 |
| 118 | 05/30/2019 | 15:37:45 | 0.055 |
| 119 | 05/30/2019 | 15:38:45 | 0.047 |
| 120 | 05/30/2019 | 15:39:45 | 0.046 |
| 121 | 05/30/2019 | 15:40:45 | 0.067 |
| 122 | 05/30/2019 | 15:41:45 | 0.045 |
| 123 | 05/30/2019 | 15:42:45 | 0.054 |
| 124 | 05/30/2019 | 15:43:45 | 0.068 |
| 125 | 05/30/2019 | 15:44:45 | 0.065 |
| 126 | 05/30/2019 | 15:45:45 | 0.069 |

# Test 002

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 05/31/2019 |
| Instrument S/N | 8530171505 | Start Time | 11:06:33 |
| | | Stop Date | 05/31/2019 |
| | | Stop Time | 16:30:33 |
| | | Total Time | 0:05:24:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.116 mg/m^3 |
| Max | 0.527 mg/m^3 |
| Max Date | 05/31/2019 |
| Max Time | 16:07:33 |
| Min | 0.007 mg/m^3 |
| Min Date | 05/31/2019 |
| Min Time | 13:10:33 |
| TWA (8 hr) | 0.078 |
| TWA Start Date | 05/31/2019 |
| TWA Start Time | 11:06:33 |
| TWA End Time | 16:30:33 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 05/31/2019 | 11:07:33 | 0.111 |
| 2 | 05/31/2019 | 11:08:33 | 0.039 |
| 3 | 05/31/2019 | 11:09:33 | 0.013 |
| 4 | 05/31/2019 | 11:10:33 | 0.049 |
| 5 | 05/31/2019 | 11:11:33 | 0.052 |
| 6 | 05/31/2019 | 11:12:33 | 0.040 |
| 7 | 05/31/2019 | 11:13:33 | 0.038 |
| 8 | 05/31/2019 | 11:14:33 | 0.032 |
| 9 | 05/31/2019 | 11:15:33 | 0.012 |
| 10 | 05/31/2019 | 11:16:33 | 0.074 |
| 11 | 05/31/2019 | 11:17:33 | 0.115 |
| 12 | 05/31/2019 | 11:18:33 | 0.026 |
| 13 | 05/31/2019 | 11:19:33 | 0.035 |
| 14 | 05/31/2019 | 11:20:33 | 0.023 |
| 15 | 05/31/2019 | 11:21:33 | 0.083 |
| 16 | 05/31/2019 | 11:22:33 | 0.100 |
| 17 | 05/31/2019 | 11:23:33 | 0.105 |
| 18 | 05/31/2019 | 11:24:33 | 0.088 |
| 19 | 05/31/2019 | 11:25:33 | 0.078 |
| 20 | 05/31/2019 | 11:26:33 | 0.086 |
| 21 | 05/31/2019 | 11:27:33 | 0.077 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 05/31/2019 | 11:28:33 | 0.084 |
| 23 | 05/31/2019 | 11:29:33 | 0.070 |
| 24 | 05/31/2019 | 11:30:33 | 0.062 |
| 25 | 05/31/2019 | 11:31:33 | 0.044 |
| 26 | 05/31/2019 | 11:32:33 | 0.069 |
| 27 | 05/31/2019 | 11:33:33 | 0.154 |
| 28 | 05/31/2019 | 11:34:33 | 0.131 |
| 29 | 05/31/2019 | 11:35:33 | 0.046 |
| 30 | 05/31/2019 | 11:36:33 | 0.074 |
| 31 | 05/31/2019 | 11:37:33 | 0.157 |
| 32 | 05/31/2019 | 11:38:33 | 0.087 |
| 33 | 05/31/2019 | 11:39:33 | 0.131 |
| 34 | 05/31/2019 | 11:40:33 | 0.060 |
| 35 | 05/31/2019 | 11:41:33 | 0.183 |
| 36 | 05/31/2019 | 11:42:33 | 0.212 |
| 37 | 05/31/2019 | 11:43:33 | 0.057 |
| 38 | 05/31/2019 | 11:44:33 | 0.096 |
| 39 | 05/31/2019 | 11:45:33 | 0.041 |
| 40 | 05/31/2019 | 11:46:33 | 0.026 |
| 41 | 05/31/2019 | 11:47:33 | 0.009 |
| 42 | 05/31/2019 | 11:48:33 | 0.075 |
| 43 | 05/31/2019 | 11:49:33 | 0.139 |
| 44 | 05/31/2019 | 11:50:33 | 0.067 |
| 45 | 05/31/2019 | 11:51:33 | 0.101 |
| 46 | 05/31/2019 | 11:52:33 | 0.099 |
| 47 | 05/31/2019 | 11:53:33 | 0.081 |
| 48 | 05/31/2019 | 11:54:33 | 0.107 |
| 49 | 05/31/2019 | 11:55:33 | 0.194 |
| 50 | 05/31/2019 | 11:56:33 | 0.182 |
| 51 | 05/31/2019 | 11:57:33 | 0.197 |
| 52 | 05/31/2019 | 11:58:33 | 0.198 |
| 53 | 05/31/2019 | 11:59:33 | 0.089 |
| 54 | 05/31/2019 | 12:00:33 | 0.128 |
| 55 | 05/31/2019 | 12:01:33 | 0.092 |
| 56 | 05/31/2019 | 12:02:33 | 0.063 |
| 57 | 05/31/2019 | 12:03:33 | 0.096 |
| 58 | 05/31/2019 | 12:04:33 | 0.032 |
| 59 | 05/31/2019 | 12:05:33 | 0.134 |
| 60 | 05/31/2019 | 12:06:33 | 0.066 |
| 61 | 05/31/2019 | 12:07:33 | 0.076 |
| 62 | 05/31/2019 | 12:08:33 | 0.050 |
| 63 | 05/31/2019 | 12:09:33 | 0.039 |
| 64 | 05/31/2019 | 12:10:33 | 0.040 |
| 65 | 05/31/2019 | 12:11:33 | 0.121 |
| 66 | 05/31/2019 | 12:12:33 | 0.152 |
| 67 | 05/31/2019 | 12:13:33 | 0.034 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 05/31/2019 | 12:14:33 | 0.094 |
| 69 | 05/31/2019 | 12:15:33 | 0.167 |
| 70 | 05/31/2019 | 12:16:33 | 0.240 |
| 71 | 05/31/2019 | 12:17:33 | 0.093 |
| 72 | 05/31/2019 | 12:18:33 | 0.035 |
| 73 | 05/31/2019 | 12:19:33 | 0.157 |
| 74 | 05/31/2019 | 12:20:33 | 0.057 |
| 75 | 05/31/2019 | 12:21:33 | 0.070 |
| 76 | 05/31/2019 | 12:22:33 | 0.182 |
| 77 | 05/31/2019 | 12:23:33 | 0.066 |
| 78 | 05/31/2019 | 12:24:33 | 0.107 |
| 79 | 05/31/2019 | 12:25:33 | 0.119 |
| 80 | 05/31/2019 | 12:26:33 | 0.160 |
| 81 | 05/31/2019 | 12:27:33 | 0.092 |
| 82 | 05/31/2019 | 12:28:33 | 0.146 |
| 83 | 05/31/2019 | 12:29:33 | 0.188 |
| 84 | 05/31/2019 | 12:30:33 | 0.055 |
| 85 | 05/31/2019 | 12:31:33 | 0.037 |
| 86 | 05/31/2019 | 12:32:33 | 0.049 |
| 87 | 05/31/2019 | 12:33:33 | 0.103 |
| 88 | 05/31/2019 | 12:34:33 | 0.064 |
| 89 | 05/31/2019 | 12:35:33 | 0.035 |
| 90 | 05/31/2019 | 12:36:33 | 0.037 |
| 91 | 05/31/2019 | 12:37:33 | 0.053 |
| 92 | 05/31/2019 | 12:38:33 | 0.056 |
| 93 | 05/31/2019 | 12:39:33 | 0.067 |
| 94 | 05/31/2019 | 12:40:33 | 0.045 |
| 95 | 05/31/2019 | 12:41:33 | 0.026 |
| 96 | 05/31/2019 | 12:42:33 | 0.040 |
| 97 | 05/31/2019 | 12:43:33 | 0.036 |
| 98 | 05/31/2019 | 12:44:33 | 0.036 |
| 99 | 05/31/2019 | 12:45:33 | 0.023 |
| 100 | 05/31/2019 | 12:46:33 | 0.030 |
| 101 | 05/31/2019 | 12:47:33 | 0.027 |
| 102 | 05/31/2019 | 12:48:33 | 0.021 |
| 103 | 05/31/2019 | 12:49:33 | 0.009 |
| 104 | 05/31/2019 | 12:50:33 | 0.009 |
| 105 | 05/31/2019 | 12:51:33 | 0.019 |
| 106 | 05/31/2019 | 12:52:33 | 0.016 |
| 107 | 05/31/2019 | 12:53:33 | 0.018 |
| 108 | 05/31/2019 | 12:54:33 | 0.017 |
| 109 | 05/31/2019 | 12:55:33 | 0.015 |
| 110 | 05/31/2019 | 12:56:33 | 0.014 |
| 111 | 05/31/2019 | 12:57:33 | 0.010 |
| 112 | 05/31/2019 | 12:58:33 | 0.011 |
| 113 | 05/31/2019 | 12:59:33 | 0.010 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 05/31/2019 | 13:00:33 | 0.008 |
| 115 | 05/31/2019 | 13:01:33 | 0.009 |
| 116 | 05/31/2019 | 13:02:33 | 0.008 |
| 117 | 05/31/2019 | 13:03:33 | 0.011 |
| 118 | 05/31/2019 | 13:04:33 | 0.013 |
| 119 | 05/31/2019 | 13:05:33 | 0.010 |
| 120 | 05/31/2019 | 13:06:33 | 0.008 |
| 121 | 05/31/2019 | 13:07:33 | 0.010 |
| 122 | 05/31/2019 | 13:08:33 | 0.010 |
| 123 | 05/31/2019 | 13:09:33 | 0.009 |
| 124 | 05/31/2019 | 13:10:33 | 0.007 |
| 125 | 05/31/2019 | 13:11:33 | 0.007 |
| 126 | 05/31/2019 | 13:12:33 | 0.007 |
| 127 | 05/31/2019 | 13:13:33 | 0.007 |
| 128 | 05/31/2019 | 13:14:33 | 0.009 |
| 129 | 05/31/2019 | 13:15:33 | 0.010 |
| 130 | 05/31/2019 | 13:16:33 | 0.008 |
| 131 | 05/31/2019 | 13:17:33 | 0.007 |
| 132 | 05/31/2019 | 13:18:33 | 0.007 |
| 133 | 05/31/2019 | 13:19:33 | 0.009 |
| 134 | 05/31/2019 | 13:20:33 | 0.009 |
| 135 | 05/31/2019 | 13:21:33 | 0.008 |
| 136 | 05/31/2019 | 13:22:33 | 0.011 |
| 137 | 05/31/2019 | 13:23:33 | 0.010 |
| 138 | 05/31/2019 | 13:24:33 | 0.009 |
| 139 | 05/31/2019 | 13:25:33 | 0.007 |
| 140 | 05/31/2019 | 13:26:33 | 0.009 |
| 141 | 05/31/2019 | 13:27:33 | 0.008 |
| 142 | 05/31/2019 | 13:28:33 | 0.009 |
| 143 | 05/31/2019 | 13:29:33 | 0.019 |
| 144 | 05/31/2019 | 13:30:33 | 0.018 |
| 145 | 05/31/2019 | 13:31:33 | 0.051 |
| 146 | 05/31/2019 | 13:32:33 | 0.061 |
| 147 | 05/31/2019 | 13:33:33 | 0.072 |
| 148 | 05/31/2019 | 13:34:33 | 0.044 |
| 149 | 05/31/2019 | 13:35:33 | 0.023 |
| 150 | 05/31/2019 | 13:36:33 | 0.042 |
| 151 | 05/31/2019 | 13:37:33 | 0.100 |
| 152 | 05/31/2019 | 13:38:33 | 0.037 |
| 153 | 05/31/2019 | 13:39:33 | 0.109 |
| 154 | 05/31/2019 | 13:40:33 | 0.089 |
| 155 | 05/31/2019 | 13:41:33 | 0.063 |
| 156 | 05/31/2019 | 13:42:33 | 0.143 |
| 157 | 05/31/2019 | 13:43:33 | 0.173 |
| 158 | 05/31/2019 | 13:44:33 | 0.143 |
| 159 | 05/31/2019 | 13:45:33 | 0.152 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 05/31/2019 | 13:46:33 | 0.205 |
| 161 | 05/31/2019 | 13:47:33 | 0.169 |
| 162 | 05/31/2019 | 13:48:33 | 0.074 |
| 163 | 05/31/2019 | 13:49:33 | 0.149 |
| 164 | 05/31/2019 | 13:50:33 | 0.073 |
| 165 | 05/31/2019 | 13:51:33 | 0.031 |
| 166 | 05/31/2019 | 13:52:33 | 0.016 |
| 167 | 05/31/2019 | 13:53:33 | 0.018 |
| 168 | 05/31/2019 | 13:54:33 | 0.186 |
| 169 | 05/31/2019 | 13:55:33 | 0.136 |
| 170 | 05/31/2019 | 13:56:33 | 0.038 |
| 171 | 05/31/2019 | 13:57:33 | 0.165 |
| 172 | 05/31/2019 | 13:58:33 | 0.158 |
| 173 | 05/31/2019 | 13:59:33 | 0.123 |
| 174 | 05/31/2019 | 14:00:33 | 0.057 |
| 175 | 05/31/2019 | 14:01:33 | 0.034 |
| 176 | 05/31/2019 | 14:02:33 | 0.101 |
| 177 | 05/31/2019 | 14:03:33 | 0.147 |
| 178 | 05/31/2019 | 14:04:33 | 0.131 |
| 179 | 05/31/2019 | 14:05:33 | 0.188 |
| 180 | 05/31/2019 | 14:06:33 | 0.228 |
| 181 | 05/31/2019 | 14:07:33 | 0.076 |
| 182 | 05/31/2019 | 14:08:33 | 0.037 |
| 183 | 05/31/2019 | 14:09:33 | 0.122 |
| 184 | 05/31/2019 | 14:10:33 | 0.120 |
| 185 | 05/31/2019 | 14:11:33 | 0.098 |
| 186 | 05/31/2019 | 14:12:33 | 0.121 |
| 187 | 05/31/2019 | 14:13:33 | 0.186 |
| 188 | 05/31/2019 | 14:14:33 | 0.223 |
| 189 | 05/31/2019 | 14:15:33 | 0.084 |
| 190 | 05/31/2019 | 14:16:33 | 0.120 |
| 191 | 05/31/2019 | 14:17:33 | 0.178 |
| 192 | 05/31/2019 | 14:18:33 | 0.133 |
| 193 | 05/31/2019 | 14:19:33 | 0.112 |
| 194 | 05/31/2019 | 14:20:33 | 0.181 |
| 195 | 05/31/2019 | 14:21:33 | 0.201 |
| 196 | 05/31/2019 | 14:22:33 | 0.143 |
| 197 | 05/31/2019 | 14:23:33 | 0.075 |
| 198 | 05/31/2019 | 14:24:33 | 0.041 |
| 199 | 05/31/2019 | 14:25:33 | 0.078 |
| 200 | 05/31/2019 | 14:26:33 | 0.146 |
| 201 | 05/31/2019 | 14:27:33 | 0.078 |
| 202 | 05/31/2019 | 14:28:33 | 0.038 |
| 203 | 05/31/2019 | 14:29:33 | 0.296 |
| 204 | 05/31/2019 | 14:30:33 | 0.194 |
| 205 | 05/31/2019 | 14:31:33 | 0.116 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 05/31/2019 | 14:32:33 | 0.127 |
| 207 | 05/31/2019 | 14:33:33 | 0.027 |
| 208 | 05/31/2019 | 14:34:33 | 0.162 |
| 209 | 05/31/2019 | 14:35:33 | 0.281 |
| 210 | 05/31/2019 | 14:36:33 | 0.293 |
| 211 | 05/31/2019 | 14:37:33 | 0.201 |
| 212 | 05/31/2019 | 14:38:33 | 0.081 |
| 213 | 05/31/2019 | 14:39:33 | 0.195 |
| 214 | 05/31/2019 | 14:40:33 | 0.209 |
| 215 | 05/31/2019 | 14:41:33 | 0.288 |
| 216 | 05/31/2019 | 14:42:33 | 0.094 |
| 217 | 05/31/2019 | 14:43:33 | 0.243 |
| 218 | 05/31/2019 | 14:44:33 | 0.167 |
| 219 | 05/31/2019 | 14:45:33 | 0.156 |
| 220 | 05/31/2019 | 14:46:33 | 0.241 |
| 221 | 05/31/2019 | 14:47:33 | 0.091 |
| 222 | 05/31/2019 | 14:48:33 | 0.026 |
| 223 | 05/31/2019 | 14:49:33 | 0.008 |
| 224 | 05/31/2019 | 14:50:33 | 0.060 |
| 225 | 05/31/2019 | 14:51:33 | 0.150 |
| 226 | 05/31/2019 | 14:52:33 | 0.079 |
| 227 | 05/31/2019 | 14:53:33 | 0.209 |
| 228 | 05/31/2019 | 14:54:33 | 0.149 |
| 229 | 05/31/2019 | 14:55:33 | 0.011 |
| 230 | 05/31/2019 | 14:56:33 | 0.015 |
| 231 | 05/31/2019 | 14:57:33 | 0.118 |
| 232 | 05/31/2019 | 14:58:33 | 0.326 |
| 233 | 05/31/2019 | 14:59:33 | 0.164 |
| 234 | 05/31/2019 | 15:00:33 | 0.037 |
| 235 | 05/31/2019 | 15:01:33 | 0.047 |
| 236 | 05/31/2019 | 15:02:33 | 0.062 |
| 237 | 05/31/2019 | 15:03:33 | 0.102 |
| 238 | 05/31/2019 | 15:04:33 | 0.317 |
| 239 | 05/31/2019 | 15:05:33 | 0.358 |
| 240 | 05/31/2019 | 15:06:33 | 0.245 |
| 241 | 05/31/2019 | 15:07:33 | 0.142 |
| 242 | 05/31/2019 | 15:08:33 | 0.037 |
| 243 | 05/31/2019 | 15:09:33 | 0.081 |
| 244 | 05/31/2019 | 15:10:33 | 0.098 |
| 245 | 05/31/2019 | 15:11:33 | 0.181 |
| 246 | 05/31/2019 | 15:12:33 | 0.130 |
| 247 | 05/31/2019 | 15:13:33 | 0.154 |
| 248 | 05/31/2019 | 15:14:33 | 0.228 |
| 249 | 05/31/2019 | 15:15:33 | 0.171 |
| 250 | 05/31/2019 | 15:16:33 | 0.209 |
| 251 | 05/31/2019 | 15:17:33 | 0.062 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 05/31/2019 | 15:18:33 | 0.010 |
| 253 | 05/31/2019 | 15:19:33 | 0.044 |
| 254 | 05/31/2019 | 15:20:33 | 0.062 |
| 255 | 05/31/2019 | 15:21:33 | 0.110 |
| 256 | 05/31/2019 | 15:22:33 | 0.200 |
| 257 | 05/31/2019 | 15:23:33 | 0.199 |
| 258 | 05/31/2019 | 15:24:33 | 0.203 |
| 259 | 05/31/2019 | 15:25:33 | 0.239 |
| 260 | 05/31/2019 | 15:26:33 | 0.233 |
| 261 | 05/31/2019 | 15:27:33 | 0.185 |
| 262 | 05/31/2019 | 15:28:33 | 0.126 |
| 263 | 05/31/2019 | 15:29:33 | 0.058 |
| 264 | 05/31/2019 | 15:30:33 | 0.071 |
| 265 | 05/31/2019 | 15:31:33 | 0.178 |
| 266 | 05/31/2019 | 15:32:33 | 0.134 |
| 267 | 05/31/2019 | 15:33:33 | 0.125 |
| 268 | 05/31/2019 | 15:34:33 | 0.144 |
| 269 | 05/31/2019 | 15:35:33 | 0.065 |
| 270 | 05/31/2019 | 15:36:33 | 0.076 |
| 271 | 05/31/2019 | 15:37:33 | 0.189 |
| 272 | 05/31/2019 | 15:38:33 | 0.072 |
| 273 | 05/31/2019 | 15:39:33 | 0.233 |
| 274 | 05/31/2019 | 15:40:33 | 0.107 |
| 275 | 05/31/2019 | 15:41:33 | 0.115 |
| 276 | 05/31/2019 | 15:42:33 | 0.086 |
| 277 | 05/31/2019 | 15:43:33 | 0.091 |
| 278 | 05/31/2019 | 15:44:33 | 0.239 |
| 279 | 05/31/2019 | 15:45:33 | 0.173 |
| 280 | 05/31/2019 | 15:46:33 | 0.329 |
| 281 | 05/31/2019 | 15:47:33 | 0.275 |
| 282 | 05/31/2019 | 15:48:33 | 0.296 |
| 283 | 05/31/2019 | 15:49:33 | 0.211 |
| 284 | 05/31/2019 | 15:50:33 | 0.193 |
| 285 | 05/31/2019 | 15:51:33 | 0.330 |
| 286 | 05/31/2019 | 15:52:33 | 0.280 |
| 287 | 05/31/2019 | 15:53:33 | 0.249 |
| 288 | 05/31/2019 | 15:54:33 | 0.270 |
| 289 | 05/31/2019 | 15:55:33 | 0.253 |
| 290 | 05/31/2019 | 15:56:33 | 0.234 |
| 291 | 05/31/2019 | 15:57:33 | 0.150 |
| 292 | 05/31/2019 | 15:58:33 | 0.164 |
| 293 | 05/31/2019 | 15:59:33 | 0.186 |
| 294 | 05/31/2019 | 16:00:33 | 0.340 |
| 295 | 05/31/2019 | 16:01:33 | 0.308 |
| 296 | 05/31/2019 | 16:02:33 | 0.055 |
| 297 | 05/31/2019 | 16:03:33 | 0.105 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 05/31/2019 | 16:04:33 | 0.288 |
| 299 | 05/31/2019 | 16:05:33 | 0.208 |
| 300 | 05/31/2019 | 16:06:33 | 0.297 |
| 301 | 05/31/2019 | 16:07:33 | 0.527 |
| 302 | 05/31/2019 | 16:08:33 | 0.318 |
| 303 | 05/31/2019 | 16:09:33 | 0.206 |
| 304 | 05/31/2019 | 16:10:33 | 0.328 |
| 305 | 05/31/2019 | 16:11:33 | 0.236 |
| 306 | 05/31/2019 | 16:12:33 | 0.335 |
| 307 | 05/31/2019 | 16:13:33 | 0.252 |
| 308 | 05/31/2019 | 16:14:33 | 0.329 |
| 309 | 05/31/2019 | 16:15:33 | 0.261 |
| 310 | 05/31/2019 | 16:16:33 | 0.190 |
| 311 | 05/31/2019 | 16:17:33 | 0.140 |
| 312 | 05/31/2019 | 16:18:33 | 0.118 |
| 313 | 05/31/2019 | 16:19:33 | 0.183 |
| 314 | 05/31/2019 | 16:20:33 | 0.285 |
| 315 | 05/31/2019 | 16:21:33 | 0.319 |
| 316 | 05/31/2019 | 16:22:33 | 0.265 |
| 317 | 05/31/2019 | 16:23:33 | 0.303 |
| 318 | 05/31/2019 | 16:24:33 | 0.228 |
| 319 | 05/31/2019 | 16:25:33 | 0.242 |
| 320 | 05/31/2019 | 16:26:33 | 0.092 |
| 321 | 05/31/2019 | 16:27:33 | 0.143 |
| 322 | 05/31/2019 | 16:28:33 | 0.179 |
| 323 | 05/31/2019 | 16:29:33 | 0.253 |
| 324 | 05/31/2019 | 16:30:33 | 0.249 |

# Test 003

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/03/2019 |
| Instrument S/N | 8530171505 | Start Time | 08:05:29 |
| | | Stop Date | 06/03/2019 |
| | | Stop Time | 14:49:29 |
| | | Total Time | 0:06:44:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.007 mg/m^3 |
| Max | 0.022 mg/m^3 |
| Max Date | 06/03/2019 |
| Max Time | 08:06:29 |
| Min | 0.003 mg/m^3 |
| Min Date | 06/03/2019 |
| Min Time | 08:07:29 |
| TWA (8 hr) | 0.006 |
| TWA Start Date | 06/03/2019 |
| TWA Start Time | 08:05:29 |
| TWA End Time | 14:49:29 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/03/2019 | 08:06:29 | 0.022 |
| 2 | 06/03/2019 | 08:07:29 | 0.003 |
| 3 | 06/03/2019 | 08:08:29 | 0.003 |
| 4 | 06/03/2019 | 08:09:29 | 0.003 |
| 5 | 06/03/2019 | 08:10:29 | 0.003 |
| 6 | 06/03/2019 | 08:11:29 | 0.003 |
| 7 | 06/03/2019 | 08:12:29 | 0.003 |
| 8 | 06/03/2019 | 08:13:29 | 0.003 |
| 9 | 06/03/2019 | 08:14:29 | 0.004 |
| 10 | 06/03/2019 | 08:15:29 | 0.004 |
| 11 | 06/03/2019 | 08:16:29 | 0.003 |
| 12 | 06/03/2019 | 08:17:29 | 0.003 |
| 13 | 06/03/2019 | 08:18:29 | 0.003 |
| 14 | 06/03/2019 | 08:19:29 | 0.003 |
| 15 | 06/03/2019 | 08:20:29 | 0.004 |
| 16 | 06/03/2019 | 08:21:29 | 0.003 |
| 17 | 06/03/2019 | 08:22:29 | 0.003 |
| 18 | 06/03/2019 | 08:23:29 | 0.004 |
| 19 | 06/03/2019 | 08:24:29 | 0.004 |
| 20 | 06/03/2019 | 08:25:29 | 0.004 |
| 21 | 06/03/2019 | 08:26:29 | 0.003 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 06/03/2019 | 08:27:29 | 0.003 |
| 23 | 06/03/2019 | 08:28:29 | 0.003 |
| 24 | 06/03/2019 | 08:29:29 | 0.003 |
| 25 | 06/03/2019 | 08:30:29 | 0.003 |
| 26 | 06/03/2019 | 08:31:29 | 0.004 |
| 27 | 06/03/2019 | 08:32:29 | 0.004 |
| 28 | 06/03/2019 | 08:33:29 | 0.004 |
| 29 | 06/03/2019 | 08:34:29 | 0.004 |
| 30 | 06/03/2019 | 08:35:29 | 0.004 |
| 31 | 06/03/2019 | 08:36:29 | 0.004 |
| 32 | 06/03/2019 | 08:37:29 | 0.004 |
| 33 | 06/03/2019 | 08:38:29 | 0.005 |
| 34 | 06/03/2019 | 08:39:29 | 0.004 |
| 35 | 06/03/2019 | 08:40:29 | 0.004 |
| 36 | 06/03/2019 | 08:41:29 | 0.004 |
| 37 | 06/03/2019 | 08:42:29 | 0.005 |
| 38 | 06/03/2019 | 08:43:29 | 0.004 |
| 39 | 06/03/2019 | 08:44:29 | 0.004 |
| 40 | 06/03/2019 | 08:45:29 | 0.004 |
| 41 | 06/03/2019 | 08:46:29 | 0.003 |
| 42 | 06/03/2019 | 08:47:29 | 0.003 |
| 43 | 06/03/2019 | 08:48:29 | 0.004 |
| 44 | 06/03/2019 | 08:49:29 | 0.006 |
| 45 | 06/03/2019 | 08:50:29 | 0.005 |
| 46 | 06/03/2019 | 08:51:29 | 0.004 |
| 47 | 06/03/2019 | 08:52:29 | 0.004 |
| 48 | 06/03/2019 | 08:53:29 | 0.004 |
| 49 | 06/03/2019 | 08:54:29 | 0.004 |
| 50 | 06/03/2019 | 08:55:29 | 0.004 |
| 51 | 06/03/2019 | 08:56:29 | 0.003 |
| 52 | 06/03/2019 | 08:57:29 | 0.004 |
| 53 | 06/03/2019 | 08:58:29 | 0.004 |
| 54 | 06/03/2019 | 08:59:29 | 0.004 |
| 55 | 06/03/2019 | 09:00:29 | 0.003 |
| 56 | 06/03/2019 | 09:01:29 | 0.003 |
| 57 | 06/03/2019 | 09:02:29 | 0.003 |
| 58 | 06/03/2019 | 09:03:29 | 0.003 |
| 59 | 06/03/2019 | 09:04:29 | 0.003 |
| 60 | 06/03/2019 | 09:05:29 | 0.003 |
| 61 | 06/03/2019 | 09:06:29 | 0.003 |
| 62 | 06/03/2019 | 09:07:29 | 0.004 |
| 63 | 06/03/2019 | 09:08:29 | 0.005 |
| 64 | 06/03/2019 | 09:09:29 | 0.004 |
| 65 | 06/03/2019 | 09:10:29 | 0.003 |
| 66 | 06/03/2019 | 09:11:29 | 0.003 |
| 67 | 06/03/2019 | 09:12:29 | 0.003 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 06/03/2019 | 09:13:29 | 0.003 |
| 69 | 06/03/2019 | 09:14:29 | 0.003 |
| 70 | 06/03/2019 | 09:15:29 | 0.003 |
| 71 | 06/03/2019 | 09:16:29 | 0.003 |
| 72 | 06/03/2019 | 09:17:29 | 0.004 |
| 73 | 06/03/2019 | 09:18:29 | 0.004 |
| 74 | 06/03/2019 | 09:19:29 | 0.003 |
| 75 | 06/03/2019 | 09:20:29 | 0.004 |
| 76 | 06/03/2019 | 09:21:29 | 0.005 |
| 77 | 06/03/2019 | 09:22:29 | 0.005 |
| 78 | 06/03/2019 | 09:23:29 | 0.004 |
| 79 | 06/03/2019 | 09:24:29 | 0.005 |
| 80 | 06/03/2019 | 09:25:29 | 0.005 |
| 81 | 06/03/2019 | 09:26:29 | 0.005 |
| 82 | 06/03/2019 | 09:27:29 | 0.004 |
| 83 | 06/03/2019 | 09:28:29 | 0.004 |
| 84 | 06/03/2019 | 09:29:29 | 0.004 |
| 85 | 06/03/2019 | 09:30:29 | 0.005 |
| 86 | 06/03/2019 | 09:31:29 | 0.005 |
| 87 | 06/03/2019 | 09:32:29 | 0.006 |
| 88 | 06/03/2019 | 09:33:29 | 0.008 |
| 89 | 06/03/2019 | 09:34:29 | 0.008 |
| 90 | 06/03/2019 | 09:35:29 | 0.007 |
| 91 | 06/03/2019 | 09:36:29 | 0.007 |
| 92 | 06/03/2019 | 09:37:29 | 0.007 |
| 93 | 06/03/2019 | 09:38:29 | 0.007 |
| 94 | 06/03/2019 | 09:39:29 | 0.007 |
| 95 | 06/03/2019 | 09:40:29 | 0.007 |
| 96 | 06/03/2019 | 09:41:29 | 0.007 |
| 97 | 06/03/2019 | 09:42:29 | 0.007 |
| 98 | 06/03/2019 | 09:43:29 | 0.008 |
| 99 | 06/03/2019 | 09:44:29 | 0.009 |
| 100 | 06/03/2019 | 09:45:29 | 0.008 |
| 101 | 06/03/2019 | 09:46:29 | 0.008 |
| 102 | 06/03/2019 | 09:47:29 | 0.008 |
| 103 | 06/03/2019 | 09:48:29 | 0.008 |
| 104 | 06/03/2019 | 09:49:29 | 0.007 |
| 105 | 06/03/2019 | 09:50:29 | 0.008 |
| 106 | 06/03/2019 | 09:51:29 | 0.007 |
| 107 | 06/03/2019 | 09:52:29 | 0.007 |
| 108 | 06/03/2019 | 09:53:29 | 0.007 |
| 109 | 06/03/2019 | 09:54:29 | 0.007 |
| 110 | 06/03/2019 | 09:55:29 | 0.007 |
| 111 | 06/03/2019 | 09:56:29 | 0.006 |
| 112 | 06/03/2019 | 09:57:29 | 0.006 |
| 113 | 06/03/2019 | 09:58:29 | 0.006 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 06/03/2019 | 09:59:29 | 0.006 |
| 115 | 06/03/2019 | 10:00:29 | 0.007 |
| 116 | 06/03/2019 | 10:01:29 | 0.006 |
| 117 | 06/03/2019 | 10:02:29 | 0.007 |
| 118 | 06/03/2019 | 10:03:29 | 0.006 |
| 119 | 06/03/2019 | 10:04:29 | 0.007 |
| 120 | 06/03/2019 | 10:05:29 | 0.006 |
| 121 | 06/03/2019 | 10:06:29 | 0.006 |
| 122 | 06/03/2019 | 10:07:29 | 0.007 |
| 123 | 06/03/2019 | 10:08:29 | 0.007 |
| 124 | 06/03/2019 | 10:09:29 | 0.007 |
| 125 | 06/03/2019 | 10:10:29 | 0.007 |
| 126 | 06/03/2019 | 10:11:29 | 0.007 |
| 127 | 06/03/2019 | 10:12:29 | 0.007 |
| 128 | 06/03/2019 | 10:13:29 | 0.008 |
| 129 | 06/03/2019 | 10:14:29 | 0.009 |
| 130 | 06/03/2019 | 10:15:29 | 0.009 |
| 131 | 06/03/2019 | 10:16:29 | 0.008 |
| 132 | 06/03/2019 | 10:17:29 | 0.009 |
| 133 | 06/03/2019 | 10:18:29 | 0.009 |
| 134 | 06/03/2019 | 10:19:29 | 0.009 |
| 135 | 06/03/2019 | 10:20:29 | 0.010 |
| 136 | 06/03/2019 | 10:21:29 | 0.009 |
| 137 | 06/03/2019 | 10:22:29 | 0.009 |
| 138 | 06/03/2019 | 10:23:29 | 0.009 |
| 139 | 06/03/2019 | 10:24:29 | 0.010 |
| 140 | 06/03/2019 | 10:25:29 | 0.009 |
| 141 | 06/03/2019 | 10:26:29 | 0.009 |
| 142 | 06/03/2019 | 10:27:29 | 0.009 |
| 143 | 06/03/2019 | 10:28:29 | 0.009 |
| 144 | 06/03/2019 | 10:29:29 | 0.009 |
| 145 | 06/03/2019 | 10:30:29 | 0.009 |
| 146 | 06/03/2019 | 10:31:29 | 0.009 |
| 147 | 06/03/2019 | 10:32:29 | 0.009 |
| 148 | 06/03/2019 | 10:33:29 | 0.009 |
| 149 | 06/03/2019 | 10:34:29 | 0.009 |
| 150 | 06/03/2019 | 10:35:29 | 0.008 |
| 151 | 06/03/2019 | 10:36:29 | 0.009 |
| 152 | 06/03/2019 | 10:37:29 | 0.010 |
| 153 | 06/03/2019 | 10:38:29 | 0.011 |
| 154 | 06/03/2019 | 10:39:29 | 0.010 |
| 155 | 06/03/2019 | 10:40:29 | 0.011 |
| 156 | 06/03/2019 | 10:41:29 | 0.010 |
| 157 | 06/03/2019 | 10:42:29 | 0.010 |
| 158 | 06/03/2019 | 10:43:29 | 0.010 |
| 159 | 06/03/2019 | 10:44:29 | 0.011 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 06/03/2019 | 10:45:29 | 0.011 |
| 161 | 06/03/2019 | 10:46:29 | 0.011 |
| 162 | 06/03/2019 | 10:47:29 | 0.010 |
| 163 | 06/03/2019 | 10:48:29 | 0.010 |
| 164 | 06/03/2019 | 10:49:29 | 0.011 |
| 165 | 06/03/2019 | 10:50:29 | 0.010 |
| 166 | 06/03/2019 | 10:51:29 | 0.010 |
| 167 | 06/03/2019 | 10:52:29 | 0.010 |
| 168 | 06/03/2019 | 10:53:29 | 0.010 |
| 169 | 06/03/2019 | 10:54:29 | 0.010 |
| 170 | 06/03/2019 | 10:55:29 | 0.010 |
| 171 | 06/03/2019 | 10:56:29 | 0.010 |
| 172 | 06/03/2019 | 10:57:29 | 0.010 |
| 173 | 06/03/2019 | 10:58:29 | 0.013 |
| 174 | 06/03/2019 | 10:59:29 | 0.012 |
| 175 | 06/03/2019 | 11:00:29 | 0.013 |
| 176 | 06/03/2019 | 11:01:29 | 0.012 |
| 177 | 06/03/2019 | 11:02:29 | 0.012 |
| 178 | 06/03/2019 | 11:03:29 | 0.012 |
| 179 | 06/03/2019 | 11:04:29 | 0.012 |
| 180 | 06/03/2019 | 11:05:29 | 0.012 |
| 181 | 06/03/2019 | 11:06:29 | 0.012 |
| 182 | 06/03/2019 | 11:07:29 | 0.012 |
| 183 | 06/03/2019 | 11:08:29 | 0.012 |
| 184 | 06/03/2019 | 11:09:29 | 0.012 |
| 185 | 06/03/2019 | 11:10:29 | 0.012 |
| 186 | 06/03/2019 | 11:11:29 | 0.012 |
| 187 | 06/03/2019 | 11:12:29 | 0.012 |
| 188 | 06/03/2019 | 11:13:29 | 0.013 |
| 189 | 06/03/2019 | 11:14:29 | 0.013 |
| 190 | 06/03/2019 | 11:15:29 | 0.013 |
| 191 | 06/03/2019 | 11:16:29 | 0.015 |
| 192 | 06/03/2019 | 11:17:29 | 0.016 |
| 193 | 06/03/2019 | 11:18:29 | 0.014 |
| 194 | 06/03/2019 | 11:19:29 | 0.013 |
| 195 | 06/03/2019 | 11:20:29 | 0.012 |
| 196 | 06/03/2019 | 11:21:29 | 0.012 |
| 197 | 06/03/2019 | 11:22:29 | 0.011 |
| 198 | 06/03/2019 | 11:23:29 | 0.012 |
| 199 | 06/03/2019 | 11:24:29 | 0.009 |
| 200 | 06/03/2019 | 11:25:29 | 0.008 |
| 201 | 06/03/2019 | 11:26:29 | 0.008 |
| 202 | 06/03/2019 | 11:27:29 | 0.008 |
| 203 | 06/03/2019 | 11:28:29 | 0.007 |
| 204 | 06/03/2019 | 11:29:29 | 0.006 |
| 205 | 06/03/2019 | 11:30:29 | 0.006 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 06/03/2019 | 11:31:29 | 0.005 |
| 207 | 06/03/2019 | 11:32:29 | 0.006 |
| 208 | 06/03/2019 | 11:33:29 | 0.006 |
| 209 | 06/03/2019 | 11:34:29 | 0.007 |
| 210 | 06/03/2019 | 11:35:29 | 0.007 |
| 211 | 06/03/2019 | 11:36:29 | 0.009 |
| 212 | 06/03/2019 | 11:37:29 | 0.010 |
| 213 | 06/03/2019 | 11:38:29 | 0.011 |
| 214 | 06/03/2019 | 11:39:29 | 0.011 |
| 215 | 06/03/2019 | 11:40:29 | 0.011 |
| 216 | 06/03/2019 | 11:41:29 | 0.011 |
| 217 | 06/03/2019 | 11:42:29 | 0.010 |
| 218 | 06/03/2019 | 11:43:29 | 0.009 |
| 219 | 06/03/2019 | 11:44:29 | 0.008 |
| 220 | 06/03/2019 | 11:45:29 | 0.007 |
| 221 | 06/03/2019 | 11:46:29 | 0.007 |
| 222 | 06/03/2019 | 11:47:29 | 0.006 |
| 223 | 06/03/2019 | 11:48:29 | 0.006 |
| 224 | 06/03/2019 | 11:49:29 | 0.006 |
| 225 | 06/03/2019 | 11:50:29 | 0.006 |
| 226 | 06/03/2019 | 11:51:29 | 0.006 |
| 227 | 06/03/2019 | 11:52:29 | 0.006 |
| 228 | 06/03/2019 | 11:53:29 | 0.007 |
| 229 | 06/03/2019 | 11:54:29 | 0.006 |
| 230 | 06/03/2019 | 11:55:29 | 0.006 |
| 231 | 06/03/2019 | 11:56:29 | 0.006 |
| 232 | 06/03/2019 | 11:57:29 | 0.006 |
| 233 | 06/03/2019 | 11:58:29 | 0.007 |
| 234 | 06/03/2019 | 11:59:29 | 0.009 |
| 235 | 06/03/2019 | 12:00:29 | 0.009 |
| 236 | 06/03/2019 | 12:01:29 | 0.008 |
| 237 | 06/03/2019 | 12:02:29 | 0.008 |
| 238 | 06/03/2019 | 12:03:29 | 0.008 |
| 239 | 06/03/2019 | 12:04:29 | 0.008 |
| 240 | 06/03/2019 | 12:05:29 | 0.007 |
| 241 | 06/03/2019 | 12:06:29 | 0.007 |
| 242 | 06/03/2019 | 12:07:29 | 0.006 |
| 243 | 06/03/2019 | 12:08:29 | 0.005 |
| 244 | 06/03/2019 | 12:09:29 | 0.004 |
| 245 | 06/03/2019 | 12:10:29 | 0.003 |
| 246 | 06/03/2019 | 12:11:29 | 0.003 |
| 247 | 06/03/2019 | 12:12:29 | 0.004 |
| 248 | 06/03/2019 | 12:13:29 | 0.004 |
| 249 | 06/03/2019 | 12:14:29 | 0.004 |
| 250 | 06/03/2019 | 12:15:29 | 0.004 |
| 251 | 06/03/2019 | 12:16:29 | 0.004 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 06/03/2019 | 12:17:29 | 0.003 |
| 253 | 06/03/2019 | 12:18:29 | 0.004 |
| 254 | 06/03/2019 | 12:19:29 | 0.005 |
| 255 | 06/03/2019 | 12:20:29 | 0.003 |
| 256 | 06/03/2019 | 12:21:29 | 0.003 |
| 257 | 06/03/2019 | 12:22:29 | 0.003 |
| 258 | 06/03/2019 | 12:23:29 | 0.004 |
| 259 | 06/03/2019 | 12:24:29 | 0.003 |
| 260 | 06/03/2019 | 12:25:29 | 0.004 |
| 261 | 06/03/2019 | 12:26:29 | 0.004 |
| 262 | 06/03/2019 | 12:27:29 | 0.006 |
| 263 | 06/03/2019 | 12:28:29 | 0.004 |
| 264 | 06/03/2019 | 12:29:29 | 0.004 |
| 265 | 06/03/2019 | 12:30:29 | 0.004 |
| 266 | 06/03/2019 | 12:31:29 | 0.004 |
| 267 | 06/03/2019 | 12:32:29 | 0.004 |
| 268 | 06/03/2019 | 12:33:29 | 0.004 |
| 269 | 06/03/2019 | 12:34:29 | 0.004 |
| 270 | 06/03/2019 | 12:35:29 | 0.004 |
| 271 | 06/03/2019 | 12:36:29 | 0.005 |
| 272 | 06/03/2019 | 12:37:29 | 0.005 |
| 273 | 06/03/2019 | 12:38:29 | 0.006 |
| 274 | 06/03/2019 | 12:39:29 | 0.006 |
| 275 | 06/03/2019 | 12:40:29 | 0.006 |
| 276 | 06/03/2019 | 12:41:29 | 0.007 |
| 277 | 06/03/2019 | 12:42:29 | 0.008 |
| 278 | 06/03/2019 | 12:43:29 | 0.006 |
| 279 | 06/03/2019 | 12:44:29 | 0.006 |
| 280 | 06/03/2019 | 12:45:29 | 0.006 |
| 281 | 06/03/2019 | 12:46:29 | 0.006 |
| 282 | 06/03/2019 | 12:47:29 | 0.006 |
| 283 | 06/03/2019 | 12:48:29 | 0.006 |
| 284 | 06/03/2019 | 12:49:29 | 0.005 |
| 285 | 06/03/2019 | 12:50:29 | 0.005 |
| 286 | 06/03/2019 | 12:51:29 | 0.005 |
| 287 | 06/03/2019 | 12:52:29 | 0.005 |
| 288 | 06/03/2019 | 12:53:29 | 0.005 |
| 289 | 06/03/2019 | 12:54:29 | 0.005 |
| 290 | 06/03/2019 | 12:55:29 | 0.007 |
| 291 | 06/03/2019 | 12:56:29 | 0.006 |
| 292 | 06/03/2019 | 12:57:29 | 0.005 |
| 293 | 06/03/2019 | 12:58:29 | 0.006 |
| 294 | 06/03/2019 | 12:59:29 | 0.006 |
| 295 | 06/03/2019 | 13:00:29 | 0.006 |
| 296 | 06/03/2019 | 13:01:29 | 0.007 |
| 297 | 06/03/2019 | 13:02:29 | 0.006 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 06/03/2019 | 13:03:29 | 0.006 |
| 299 | 06/03/2019 | 13:04:29 | 0.006 |
| 300 | 06/03/2019 | 13:05:29 | 0.007 |
| 301 | 06/03/2019 | 13:06:29 | 0.005 |
| 302 | 06/03/2019 | 13:07:29 | 0.006 |
| 303 | 06/03/2019 | 13:08:29 | 0.006 |
| 304 | 06/03/2019 | 13:09:29 | 0.006 |
| 305 | 06/03/2019 | 13:10:29 | 0.006 |
| 306 | 06/03/2019 | 13:11:29 | 0.011 |
| 307 | 06/03/2019 | 13:12:29 | 0.007 |
| 308 | 06/03/2019 | 13:13:29 | 0.005 |
| 309 | 06/03/2019 | 13:14:29 | 0.006 |
| 310 | 06/03/2019 | 13:15:29 | 0.006 |
| 311 | 06/03/2019 | 13:16:29 | 0.005 |
| 312 | 06/03/2019 | 13:17:29 | 0.005 |
| 313 | 06/03/2019 | 13:18:29 | 0.005 |
| 314 | 06/03/2019 | 13:19:29 | 0.006 |
| 315 | 06/03/2019 | 13:20:29 | 0.005 |
| 316 | 06/03/2019 | 13:21:29 | 0.006 |
| 317 | 06/03/2019 | 13:22:29 | 0.006 |
| 318 | 06/03/2019 | 13:23:29 | 0.005 |
| 319 | 06/03/2019 | 13:24:29 | 0.006 |
| 320 | 06/03/2019 | 13:25:29 | 0.006 |
| 321 | 06/03/2019 | 13:26:29 | 0.005 |
| 322 | 06/03/2019 | 13:27:29 | 0.004 |
| 323 | 06/03/2019 | 13:28:29 | 0.004 |
| 324 | 06/03/2019 | 13:29:29 | 0.004 |
| 325 | 06/03/2019 | 13:30:29 | 0.004 |
| 326 | 06/03/2019 | 13:31:29 | 0.005 |
| 327 | 06/03/2019 | 13:32:29 | 0.005 |
| 328 | 06/03/2019 | 13:33:29 | 0.006 |
| 329 | 06/03/2019 | 13:34:29 | 0.006 |
| 330 | 06/03/2019 | 13:35:29 | 0.007 |
| 331 | 06/03/2019 | 13:36:29 | 0.007 |
| 332 | 06/03/2019 | 13:37:29 | 0.008 |
| 333 | 06/03/2019 | 13:38:29 | 0.006 |
| 334 | 06/03/2019 | 13:39:29 | 0.009 |
| 335 | 06/03/2019 | 13:40:29 | 0.008 |
| 336 | 06/03/2019 | 13:41:29 | 0.005 |
| 337 | 06/03/2019 | 13:42:29 | 0.005 |
| 338 | 06/03/2019 | 13:43:29 | 0.005 |
| 339 | 06/03/2019 | 13:44:29 | 0.005 |
| 340 | 06/03/2019 | 13:45:29 | 0.005 |
| 341 | 06/03/2019 | 13:46:29 | 0.006 |
| 342 | 06/03/2019 | 13:47:29 | 0.006 |
| 343 | 06/03/2019 | 13:48:29 | 0.008 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 344 | 06/03/2019 | 13:49:29 | 0.011 |
| 345 | 06/03/2019 | 13:50:29 | 0.011 |
| 346 | 06/03/2019 | 13:51:29 | 0.008 |
| 347 | 06/03/2019 | 13:52:29 | 0.006 |
| 348 | 06/03/2019 | 13:53:29 | 0.007 |
| 349 | 06/03/2019 | 13:54:29 | 0.006 |
| 350 | 06/03/2019 | 13:55:29 | 0.006 |
| 351 | 06/03/2019 | 13:56:29 | 0.005 |
| 352 | 06/03/2019 | 13:57:29 | 0.005 |
| 353 | 06/03/2019 | 13:58:29 | 0.005 |
| 354 | 06/03/2019 | 13:59:29 | 0.005 |
| 355 | 06/03/2019 | 14:00:29 | 0.005 |
| 356 | 06/03/2019 | 14:01:29 | 0.005 |
| 357 | 06/03/2019 | 14:02:29 | 0.005 |
| 358 | 06/03/2019 | 14:03:29 | 0.005 |
| 359 | 06/03/2019 | 14:04:29 | 0.004 |
| 360 | 06/03/2019 | 14:05:29 | 0.004 |
| 361 | 06/03/2019 | 14:06:29 | 0.004 |
| 362 | 06/03/2019 | 14:07:29 | 0.008 |
| 363 | 06/03/2019 | 14:08:29 | 0.014 |
| 364 | 06/03/2019 | 14:09:29 | 0.009 |
| 365 | 06/03/2019 | 14:10:29 | 0.010 |
| 366 | 06/03/2019 | 14:11:29 | 0.006 |
| 367 | 06/03/2019 | 14:12:29 | 0.006 |
| 368 | 06/03/2019 | 14:13:29 | 0.004 |
| 369 | 06/03/2019 | 14:14:29 | 0.004 |
| 370 | 06/03/2019 | 14:15:29 | 0.005 |
| 371 | 06/03/2019 | 14:16:29 | 0.005 |
| 372 | 06/03/2019 | 14:17:29 | 0.005 |
| 373 | 06/03/2019 | 14:18:29 | 0.004 |
| 374 | 06/03/2019 | 14:19:29 | 0.004 |
| 375 | 06/03/2019 | 14:20:29 | 0.005 |
| 376 | 06/03/2019 | 14:21:29 | 0.009 |
| 377 | 06/03/2019 | 14:22:29 | 0.013 |
| 378 | 06/03/2019 | 14:23:29 | 0.011 |
| 379 | 06/03/2019 | 14:24:29 | 0.011 |
| 380 | 06/03/2019 | 14:25:29 | 0.006 |
| 381 | 06/03/2019 | 14:26:29 | 0.006 |
| 382 | 06/03/2019 | 14:27:29 | 0.006 |
| 383 | 06/03/2019 | 14:28:29 | 0.004 |
| 384 | 06/03/2019 | 14:29:29 | 0.004 |
| 385 | 06/03/2019 | 14:30:29 | 0.005 |
| 386 | 06/03/2019 | 14:31:29 | 0.006 |
| 387 | 06/03/2019 | 14:32:29 | 0.008 |
| 388 | 06/03/2019 | 14:33:29 | 0.009 |
| 389 | 06/03/2019 | 14:34:29 | 0.009 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 390 | 06/03/2019 | 14:35:29 | 0.007 |
| 391 | 06/03/2019 | 14:36:29 | 0.007 |
| 392 | 06/03/2019 | 14:37:29 | 0.007 |
| 393 | 06/03/2019 | 14:38:29 | 0.007 |
| 394 | 06/03/2019 | 14:39:29 | 0.005 |
| 395 | 06/03/2019 | 14:40:29 | 0.005 |
| 396 | 06/03/2019 | 14:41:29 | 0.005 |
| 397 | 06/03/2019 | 14:42:29 | 0.004 |
| 398 | 06/03/2019 | 14:43:29 | 0.006 |
| 399 | 06/03/2019 | 14:44:29 | 0.008 |
| 400 | 06/03/2019 | 14:45:29 | 0.006 |
| 401 | 06/03/2019 | 14:46:29 | 0.009 |
| 402 | 06/03/2019 | 14:47:29 | 0.007 |
| 403 | 06/03/2019 | 14:48:29 | 0.007 |
| 404 | 06/03/2019 | 14:49:29 | 0.005 |

# Test 004

ERROR: FLOW,

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/04/2019 |
| Instrument S/N | 8530171505 | Start Time | 08:25:13 |
| | | Stop Date | 06/05/2019 |
| | | Stop Time | 08:14:13 |
| | | Total Time | 0:23:49:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.049 mg/m^3 |
| Max | 0.663 mg/m^3 |
| Max Date | 06/04/2019 |
| Max Time | 16:19:13 |
| Min | 0.000 mg/m^3 |
| Min Date | 06/04/2019 |
| Min Time | 16:01:21 |
| TWA (8 hr) | 0.402 |
| TWA Start Date | 06/04/2019 |
| TWA Start Time | 08:25:13 |
| TWA End Time | 08:14:13 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/04/2019 | 08:26:13 | 0.003 |
| 2 | 06/04/2019 | 08:27:13 | 0.003 |
| 3 | 06/04/2019 | 08:28:13 | 0.002 |
| 4 | 06/04/2019 | 08:29:13 | 0.002 |
| 5 | 06/04/2019 | 08:30:13 | 0.002 |
| 6 | 06/04/2019 | 08:31:13 | 0.002 |
| 7 | 06/04/2019 | 16:01:21 | 0.000 |
| 8 | 06/04/2019 | 16:02:13 | 0.556 |
| 9 | 06/04/2019 | 16:03:13 | 0.383 |
| 10 | 06/04/2019 | 16:04:13 | 0.407 |
| 11 | 06/04/2019 | 16:05:13 | 0.456 |
| 12 | 06/04/2019 | 16:06:13 | 0.526 |
| 13 | 06/04/2019 | 16:07:13 | 0.545 |
| 14 | 06/04/2019 | 16:08:13 | 0.632 |
| 15 | 06/04/2019 | 16:09:13 | 0.561 |
| 16 | 06/04/2019 | 16:10:13 | 0.549 |
| 17 | 06/04/2019 | 16:11:13 | 0.564 |
| 18 | 06/04/2019 | 16:12:13 | 0.505 |
| 19 | 06/04/2019 | 16:13:13 | 0.540 |
| 20 | 06/04/2019 | 16:14:13 | 0.527 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 21 | 06/04/2019 | 16:15:13 | 0.513 |
| 22 | 06/04/2019 | 16:16:13 | 0.525 |
| 23 | 06/04/2019 | 16:17:13 | 0.599 |
| 24 | 06/04/2019 | 16:18:13 | 0.594 |
| 25 | 06/04/2019 | 16:19:13 | 0.663 |
| 26 | 06/04/2019 | 16:20:13 | 0.493 |
| 27 | 06/04/2019 | 16:21:13 | 0.483 |
| 28 | 06/04/2019 | 16:22:13 | 0.493 |
| 29 | 06/04/2019 | 16:23:13 | 0.475 |
| 30 | 06/04/2019 | 16:24:13 | 0.430 |
| 31 | 06/04/2019 | 16:25:13 | 0.429 |
| 32 | 06/04/2019 | 16:26:13 | 0.444 |
| 33 | 06/04/2019 | 16:27:13 | 0.469 |
| 34 | 06/04/2019 | 16:28:13 | 0.470 |
| 35 | 06/04/2019 | 16:29:13 | 0.393 |
| 36 | 06/04/2019 | 16:30:13 | 0.365 |
| 37 | 06/04/2019 | 16:31:13 | 0.384 |
| 38 | 06/04/2019 | 16:32:13 | 0.403 |
| 39 | 06/04/2019 | 16:33:13 | 0.406 |
| 40 | 06/04/2019 | 16:34:13 | 0.383 |
| 41 | 06/04/2019 | 16:35:13 | 0.409 |
| 42 | 06/04/2019 | 16:36:13 | 0.378 |
| 43 | 06/04/2019 | 16:37:13 | 0.317 |
| 44 | 06/04/2019 | 16:38:13 | 0.327 |
| 45 | 06/04/2019 | 16:39:13 | 0.290 |
| 46 | 06/04/2019 | 16:40:13 | 0.256 |
| 47 | 06/04/2019 | 16:41:13 | 0.260 |
| 48 | 06/04/2019 | 16:42:13 | 0.273 |
| 49 | 06/04/2019 | 16:43:13 | 0.288 |
| 50 | 06/04/2019 | 16:44:13 | 0.220 |
| 51 | 06/04/2019 | 16:45:13 | 0.199 |
| 52 | 06/04/2019 | 16:46:13 | 0.248 |
| 53 | 06/04/2019 | 16:47:13 | 0.193 |
| 54 | 06/04/2019 | 16:48:13 | 0.209 |
| 55 | 06/04/2019 | 16:49:13 | 0.210 |
| 56 | 06/04/2019 | 16:50:13 | 0.180 |
| 57 | 06/04/2019 | 16:51:13 | 0.195 |
| 58 | 06/04/2019 | 16:52:13 | 0.176 |
| 59 | 06/04/2019 | 16:53:13 | 0.179 |
| 60 | 06/04/2019 | 16:54:13 | 0.162 |
| 61 | 06/04/2019 | 16:55:13 | 0.180 |
| 62 | 06/04/2019 | 16:56:13 | 0.151 |
| 63 | 06/04/2019 | 16:57:13 | 0.169 |
| 64 | 06/04/2019 | 16:58:13 | 0.148 |
| 65 | 06/04/2019 | 16:59:13 | 0.143 |
| 66 | 06/04/2019 | 17:00:13 | 0.153 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 67 | 06/04/2019 | 17:01:13 | 0.114 |
| 68 | 06/04/2019 | 17:02:13 | 0.114 |
| 69 | 06/04/2019 | 17:03:13 | 0.120 |
| 70 | 06/04/2019 | 17:04:13 | 0.121 |
| 71 | 06/04/2019 | 17:05:13 | 0.103 |
| 72 | 06/04/2019 | 17:06:13 | 0.118 |
| 73 | 06/04/2019 | 17:07:13 | 0.114 |
| 74 | 06/04/2019 | 17:08:13 | 0.125 |
| 75 | 06/04/2019 | 17:09:13 | 0.105 |
| 76 | 06/04/2019 | 17:10:13 | 0.104 |
| 77 | 06/04/2019 | 17:11:13 | 0.078 |
| 78 | 06/04/2019 | 17:12:13 | 0.102 |
| 79 | 06/04/2019 | 17:13:13 | 0.088 |
| 80 | 06/04/2019 | 17:14:13 | 0.101 |
| 81 | 06/04/2019 | 17:15:13 | 0.084 |
| 82 | 06/04/2019 | 17:16:13 | 0.087 |
| 83 | 06/04/2019 | 17:17:13 | 0.092 |
| 84 | 06/04/2019 | 17:18:13 | 0.088 |
| 85 | 06/04/2019 | 17:19:13 | 0.078 |
| 86 | 06/04/2019 | 17:20:13 | 0.072 |
| 87 | 06/04/2019 | 17:21:13 | 0.070 |
| 88 | 06/04/2019 | 17:22:13 | 0.065 |
| 89 | 06/04/2019 | 17:23:13 | 0.072 |
| 90 | 06/04/2019 | 17:24:13 | 0.061 |
| 91 | 06/04/2019 | 17:25:13 | 0.065 |
| 92 | 06/04/2019 | 17:26:13 | 0.076 |
| 93 | 06/04/2019 | 17:27:13 | 0.061 |
| 94 | 06/04/2019 | 17:28:13 | 0.078 |
| 95 | 06/04/2019 | 17:29:13 | 0.067 |
| 96 | 06/04/2019 | 17:30:13 | 0.074 |
| 97 | 06/04/2019 | 17:31:13 | 0.066 |
| 98 | 06/04/2019 | 17:32:13 | 0.070 |
| 99 | 06/04/2019 | 17:33:13 | 0.085 |
| 100 | 06/04/2019 | 17:34:13 | 0.084 |
| 101 | 06/04/2019 | 17:35:13 | 0.060 |
| 102 | 06/04/2019 | 17:36:13 | 0.055 |
| 103 | 06/04/2019 | 17:37:13 | 0.048 |
| 104 | 06/04/2019 | 17:38:13 | 0.037 |
| 105 | 06/04/2019 | 17:39:13 | 0.051 |
| 106 | 06/04/2019 | 17:40:13 | 0.058 |
| 107 | 06/04/2019 | 17:41:13 | 0.049 |
| 108 | 06/04/2019 | 17:42:13 | 0.050 |
| 109 | 06/04/2019 | 17:43:13 | 0.050 |
| 110 | 06/04/2019 | 17:44:13 | 0.058 |
| 111 | 06/04/2019 | 17:45:13 | 0.047 |
| 112 | 06/04/2019 | 17:46:13 | 0.047 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 113 | 06/04/2019 | 17:47:13 | 0.048 |
| 114 | 06/04/2019 | 17:48:13 | 0.043 |
| 115 | 06/04/2019 | 17:49:13 | 0.048 |
| 116 | 06/04/2019 | 17:50:13 | 0.047 |
| 117 | 06/04/2019 | 17:51:13 | 0.049 |
| 118 | 06/04/2019 | 17:52:13 | 0.049 |
| 119 | 06/04/2019 | 17:53:13 | 0.050 |
| 120 | 06/04/2019 | 17:54:13 | 0.047 |
| 121 | 06/04/2019 | 17:55:13 | 0.046 |
| 122 | 06/04/2019 | 17:56:13 | 0.035 |
| 123 | 06/04/2019 | 17:57:13 | 0.054 |
| 124 | 06/04/2019 | 17:58:13 | 0.039 |
| 125 | 06/04/2019 | 17:59:13 | 0.050 |
| 126 | 06/04/2019 | 18:00:13 | 0.047 |
| 127 | 06/04/2019 | 18:01:13 | 0.049 |
| 128 | 06/04/2019 | 18:02:13 | 0.049 |
| 129 | 06/04/2019 | 18:03:13 | 0.038 |
| 130 | 06/04/2019 | 18:04:13 | 0.039 |
| 131 | 06/04/2019 | 18:05:13 | 0.041 |
| 132 | 06/04/2019 | 18:06:13 | 0.049 |
| 133 | 06/04/2019 | 18:07:13 | 0.040 |
| 134 | 06/04/2019 | 18:08:13 | 0.044 |
| 135 | 06/04/2019 | 18:09:13 | 0.044 |
| 136 | 06/04/2019 | 18:10:13 | 0.043 |
| 137 | 06/04/2019 | 18:11:13 | 0.043 |
| 138 | 06/04/2019 | 18:12:13 | 0.045 |
| 139 | 06/04/2019 | 18:13:13 | 0.046 |
| 140 | 06/04/2019 | 18:14:13 | 0.049 |
| 141 | 06/04/2019 | 18:15:13 | 0.033 |
| 142 | 06/04/2019 | 18:16:13 | 0.041 |
| 143 | 06/04/2019 | 18:17:13 | 0.047 |
| 144 | 06/04/2019 | 18:18:13 | 0.043 |
| 145 | 06/04/2019 | 18:19:13 | 0.048 |
| 146 | 06/04/2019 | 18:20:13 | 0.050 |
| 147 | 06/04/2019 | 18:21:13 | 0.039 |
| 148 | 06/04/2019 | 18:22:13 | 0.036 |
| 149 | 06/04/2019 | 18:23:13 | 0.037 |
| 150 | 06/04/2019 | 18:24:13 | 0.035 |
| 151 | 06/04/2019 | 18:25:13 | 0.034 |
| 152 | 06/04/2019 | 18:26:13 | 0.038 |
| 153 | 06/04/2019 | 18:27:13 | 0.034 |
| 154 | 06/04/2019 | 18:28:13 | 0.037 |
| 155 | 06/04/2019 | 18:29:13 | 0.036 |
| 156 | 06/04/2019 | 18:30:13 | 0.035 |
| 157 | 06/04/2019 | 18:31:13 | 0.036 |
| 158 | 06/04/2019 | 18:32:13 | 0.037 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 159 | 06/04/2019 | 18:33:13 | 0.040 |
| 160 | 06/04/2019 | 18:34:13 | 0.033 |
| 161 | 06/04/2019 | 18:35:13 | 0.030 |
| 162 | 06/04/2019 | 18:36:13 | 0.036 |
| 163 | 06/04/2019 | 18:37:13 | 0.032 |
| 164 | 06/04/2019 | 18:38:13 | 0.035 |
| 165 | 06/04/2019 | 18:39:13 | 0.037 |
| 166 | 06/04/2019 | 18:40:13 | 0.031 |
| 167 | 06/04/2019 | 18:41:13 | 0.031 |
| 168 | 06/04/2019 | 18:42:13 | 0.031 |
| 169 | 06/04/2019 | 18:43:13 | 0.031 |
| 170 | 06/04/2019 | 18:44:13 | 0.033 |
| 171 | 06/04/2019 | 18:45:13 | 0.026 |
| 172 | 06/04/2019 | 18:46:13 | 0.027 |
| 173 | 06/04/2019 | 18:47:13 | 0.023 |
| 174 | 06/04/2019 | 18:48:13 | 0.029 |
| 175 | 06/04/2019 | 18:49:13 | 0.040 |
| 176 | 06/04/2019 | 18:50:13 | 0.031 |
| 177 | 06/04/2019 | 18:51:13 | 0.029 |
| 178 | 06/04/2019 | 18:52:13 | 0.034 |
| 179 | 06/04/2019 | 18:53:13 | 0.034 |
| 180 | 06/04/2019 | 18:54:13 | 0.037 |
| 181 | 06/04/2019 | 18:55:13 | 0.034 |
| 182 | 06/04/2019 | 18:56:13 | 0.034 |
| 183 | 06/04/2019 | 18:57:13 | 0.035 |
| 184 | 06/04/2019 | 18:58:13 | 0.036 |
| 185 | 06/04/2019 | 18:59:13 | 0.037 |
| 186 | 06/04/2019 | 19:00:13 | 0.044 |
| 187 | 06/04/2019 | 19:01:13 | 0.036 |
| 188 | 06/04/2019 | 19:02:13 | 0.033 |
| 189 | 06/04/2019 | 19:03:13 | 0.033 |
| 190 | 06/04/2019 | 19:04:13 | 0.035 |
| 191 | 06/04/2019 | 19:05:13 | 0.036 |
| 192 | 06/04/2019 | 19:06:13 | 0.042 |
| 193 | 06/04/2019 | 19:07:13 | 0.038 |
| 194 | 06/04/2019 | 19:08:13 | 0.032 |
| 195 | 06/04/2019 | 19:09:13 | 0.040 |
| 196 | 06/04/2019 | 19:10:13 | 0.032 |
| 197 | 06/04/2019 | 19:11:13 | 0.038 |
| 198 | 06/04/2019 | 19:12:13 | 0.032 |
| 199 | 06/04/2019 | 19:13:13 | 0.038 |
| 200 | 06/04/2019 | 19:14:13 | 0.041 |
| 201 | 06/04/2019 | 19:15:13 | 0.040 |
| 202 | 06/04/2019 | 19:16:13 | 0.036 |
| 203 | 06/04/2019 | 19:17:13 | 0.036 |
| 204 | 06/04/2019 | 19:18:13 | 0.029 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 205 | 06/04/2019 | 19:19:13 | 0.034 |
| 206 | 06/04/2019 | 19:20:13 | 0.030 |
| 207 | 06/04/2019 | 19:21:13 | 0.034 |
| 208 | 06/04/2019 | 19:22:13 | 0.035 |
| 209 | 06/04/2019 | 19:23:13 | 0.036 |
| 210 | 06/04/2019 | 19:24:13 | 0.034 |
| 211 | 06/04/2019 | 19:25:13 | 0.026 |
| 212 | 06/04/2019 | 19:26:13 | 0.033 |
| 213 | 06/04/2019 | 19:27:13 | 0.032 |
| 214 | 06/04/2019 | 19:28:13 | 0.037 |
| 215 | 06/04/2019 | 19:29:13 | 0.034 |
| 216 | 06/04/2019 | 19:30:13 | 0.034 |
| 217 | 06/04/2019 | 19:31:13 | 0.032 |
| 218 | 06/04/2019 | 19:32:13 | 0.035 |
| 219 | 06/04/2019 | 19:33:13 | 0.037 |
| 220 | 06/04/2019 | 19:34:13 | 0.035 |
| 221 | 06/04/2019 | 19:35:13 | 0.037 |
| 222 | 06/04/2019 | 19:36:13 | 0.037 |
| 223 | 06/04/2019 | 19:37:13 | 0.035 |
| 224 | 06/04/2019 | 19:38:13 | 0.036 |
| 225 | 06/04/2019 | 19:39:13 | 0.032 |
| 226 | 06/04/2019 | 19:40:13 | 0.037 |
| 227 | 06/04/2019 | 19:41:13 | 0.036 |
| 228 | 06/04/2019 | 19:42:13 | 0.035 |
| 229 | 06/04/2019 | 19:43:13 | 0.037 |
| 230 | 06/04/2019 | 19:44:13 | 0.035 |
| 231 | 06/04/2019 | 19:45:13 | 0.034 |
| 232 | 06/04/2019 | 19:46:13 | 0.035 |
| 233 | 06/04/2019 | 19:47:13 | 0.030 |
| 234 | 06/04/2019 | 19:48:13 | 0.031 |
| 235 | 06/04/2019 | 19:49:13 | 0.030 |
| 236 | 06/04/2019 | 19:50:13 | 0.035 |
| 237 | 06/04/2019 | 19:51:13 | 0.033 |
| 238 | 06/04/2019 | 19:52:13 | 0.031 |
| 239 | 06/04/2019 | 19:53:13 | 0.031 |
| 240 | 06/04/2019 | 19:54:13 | 0.032 |
| 241 | 06/04/2019 | 19:55:13 | 0.029 |
| 242 | 06/04/2019 | 19:56:13 | 0.030 |
| 243 | 06/04/2019 | 19:57:13 | 0.029 |
| 244 | 06/04/2019 | 19:58:13 | 0.028 |
| 245 | 06/04/2019 | 19:59:13 | 0.030 |
| 246 | 06/04/2019 | 20:00:13 | 0.033 |
| 247 | 06/04/2019 | 20:01:13 | 0.030 |
| 248 | 06/04/2019 | 20:02:13 | 0.032 |
| 249 | 06/04/2019 | 20:03:13 | 0.031 |
| 250 | 06/04/2019 | 20:04:13 | 0.029 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 251 | 06/04/2019 | 20:05:13 | 0.035 |
| 252 | 06/04/2019 | 20:06:13 | 0.030 |
| 253 | 06/04/2019 | 20:07:13 | 0.030 |
| 254 | 06/04/2019 | 20:08:13 | 0.028 |
| 255 | 06/04/2019 | 20:09:13 | 0.032 |
| 256 | 06/04/2019 | 20:10:13 | 0.027 |
| 257 | 06/04/2019 | 20:11:13 | 0.027 |
| 258 | 06/04/2019 | 20:12:13 | 0.027 |
| 259 | 06/04/2019 | 20:13:13 | 0.029 |
| 260 | 06/04/2019 | 20:14:13 | 0.028 |
| 261 | 06/04/2019 | 20:15:13 | 0.026 |
| 262 | 06/04/2019 | 20:16:13 | 0.025 |
| 263 | 06/04/2019 | 20:17:13 | 0.027 |
| 264 | 06/04/2019 | 20:18:13 | 0.027 |
| 265 | 06/04/2019 | 20:19:13 | 0.026 |
| 266 | 06/04/2019 | 20:20:13 | 0.026 |
| 267 | 06/04/2019 | 20:21:13 | 0.025 |
| 268 | 06/04/2019 | 20:22:13 | 0.028 |
| 269 | 06/04/2019 | 20:23:13 | 0.025 |
| 270 | 06/04/2019 | 20:24:13 | 0.026 |
| 271 | 06/04/2019 | 20:25:13 | 0.025 |
| 272 | 06/04/2019 | 20:26:13 | 0.025 |
| 273 | 06/04/2019 | 20:27:13 | 0.026 |
| 274 | 06/04/2019 | 20:28:13 | 0.024 |
| 275 | 06/04/2019 | 20:29:13 | 0.023 |
| 276 | 06/04/2019 | 20:30:13 | 0.022 |
| 277 | 06/04/2019 | 20:31:13 | 0.023 |
| 278 | 06/04/2019 | 20:32:13 | 0.022 |
| 279 | 06/04/2019 | 20:33:13 | 0.023 |
| 280 | 06/04/2019 | 20:34:13 | 0.022 |
| 281 | 06/04/2019 | 20:35:13 | 0.023 |
| 282 | 06/04/2019 | 20:36:13 | 0.023 |
| 283 | 06/04/2019 | 20:37:13 | 0.023 |
| 284 | 06/04/2019 | 20:38:13 | 0.022 |
| 285 | 06/04/2019 | 20:39:13 | 0.024 |
| 286 | 06/04/2019 | 20:40:13 | 0.024 |
| 287 | 06/04/2019 | 20:41:13 | 0.023 |
| 288 | 06/04/2019 | 20:42:13 | 0.025 |
| 289 | 06/04/2019 | 20:43:13 | 0.024 |
| 290 | 06/04/2019 | 20:44:13 | 0.023 |
| 291 | 06/04/2019 | 20:45:13 | 0.022 |
| 292 | 06/04/2019 | 20:46:13 | 0.021 |
| 293 | 06/04/2019 | 20:47:13 | 0.022 |
| 294 | 06/04/2019 | 20:48:13 | 0.022 |
| 295 | 06/04/2019 | 20:49:13 | 0.022 |
| 296 | 06/04/2019 | 20:50:13 | 0.022 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 297 | 06/04/2019 | 20:51:13 | 0.022 |
| 298 | 06/04/2019 | 20:52:13 | 0.024 |
| 299 | 06/04/2019 | 20:53:13 | 0.022 |
| 300 | 06/04/2019 | 20:54:13 | 0.023 |
| 301 | 06/04/2019 | 20:55:13 | 0.022 |
| 302 | 06/04/2019 | 20:56:13 | 0.021 |
| 303 | 06/04/2019 | 20:57:13 | 0.023 |
| 304 | 06/04/2019 | 20:58:13 | 0.021 |
| 305 | 06/04/2019 | 20:59:13 | 0.019 |
| 306 | 06/04/2019 | 21:00:13 | 0.020 |
| 307 | 06/04/2019 | 21:01:13 | 0.022 |
| 308 | 06/04/2019 | 21:02:13 | 0.019 |
| 309 | 06/04/2019 | 21:03:13 | 0.022 |
| 310 | 06/04/2019 | 21:04:13 | 0.021 |
| 311 | 06/04/2019 | 21:05:13 | 0.020 |
| 312 | 06/04/2019 | 21:06:13 | 0.021 |
| 313 | 06/04/2019 | 21:07:13 | 0.021 |
| 314 | 06/04/2019 | 21:08:13 | 0.019 |
| 315 | 06/04/2019 | 21:09:13 | 0.021 |
| 316 | 06/04/2019 | 21:10:13 | 0.023 |
| 317 | 06/04/2019 | 21:11:13 | 0.020 |
| 318 | 06/04/2019 | 21:12:13 | 0.023 |
| 319 | 06/04/2019 | 21:13:13 | 0.021 |
| 320 | 06/04/2019 | 21:14:13 | 0.020 |
| 321 | 06/04/2019 | 21:15:13 | 0.022 |
| 322 | 06/04/2019 | 21:16:13 | 0.022 |
| 323 | 06/04/2019 | 21:17:13 | 0.021 |
| 324 | 06/04/2019 | 21:18:13 | 0.022 |
| 325 | 06/04/2019 | 21:19:13 | 0.022 |
| 326 | 06/04/2019 | 21:20:13 | 0.021 |
| 327 | 06/04/2019 | 21:21:13 | 0.020 |
| 328 | 06/04/2019 | 21:22:13 | 0.020 |
| 329 | 06/04/2019 | 21:23:13 | 0.019 |
| 330 | 06/04/2019 | 21:24:13 | 0.019 |
| 331 | 06/04/2019 | 21:25:13 | 0.020 |
| 332 | 06/04/2019 | 21:26:13 | 0.020 |
| 333 | 06/04/2019 | 21:27:13 | 0.022 |
| 334 | 06/04/2019 | 21:28:13 | 0.021 |
| 335 | 06/04/2019 | 21:29:13 | 0.021 |
| 336 | 06/04/2019 | 21:30:13 | 0.020 |
| 337 | 06/04/2019 | 21:31:13 | 0.021 |
| 338 | 06/04/2019 | 21:32:13 | 0.020 |
| 339 | 06/04/2019 | 21:33:13 | 0.021 |
| 340 | 06/04/2019 | 21:34:13 | 0.020 |
| 341 | 06/04/2019 | 21:35:13 | 0.021 |
| 342 | 06/04/2019 | 21:36:13 | 0.021 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 343 | 06/04/2019 | 21:37:13 | 0.020 |
| 344 | 06/04/2019 | 21:38:13 | 0.020 |
| 345 | 06/04/2019 | 21:39:13 | 0.020 |
| 346 | 06/04/2019 | 21:40:13 | 0.020 |
| 347 | 06/04/2019 | 21:41:13 | 0.020 |
| 348 | 06/04/2019 | 21:42:13 | 0.020 |
| 349 | 06/04/2019 | 21:43:13 | 0.020 |
| 350 | 06/04/2019 | 21:44:13 | 0.021 |
| 351 | 06/04/2019 | 21:45:13 | 0.021 |
| 352 | 06/04/2019 | 21:46:13 | 0.021 |
| 353 | 06/04/2019 | 21:47:13 | 0.020 |
| 354 | 06/04/2019 | 21:48:13 | 0.021 |
| 355 | 06/04/2019 | 21:49:13 | 0.021 |
| 356 | 06/04/2019 | 21:50:13 | 0.021 |
| 357 | 06/04/2019 | 21:51:13 | 0.022 |
| 358 | 06/04/2019 | 21:52:13 | 0.021 |
| 359 | 06/04/2019 | 21:53:13 | 0.021 |
| 360 | 06/04/2019 | 21:54:13 | 0.022 |
| 361 | 06/04/2019 | 21:55:13 | 0.021 |
| 362 | 06/04/2019 | 21:56:13 | 0.020 |
| 363 | 06/04/2019 | 21:57:13 | 0.021 |
| 364 | 06/04/2019 | 21:58:13 | 0.021 |
| 365 | 06/04/2019 | 21:59:13 | 0.021 |
| 366 | 06/04/2019 | 22:00:13 | 0.022 |
| 367 | 06/04/2019 | 22:01:13 | 0.021 |
| 368 | 06/04/2019 | 22:02:13 | 0.021 |
| 369 | 06/04/2019 | 22:03:13 | 0.022 |
| 370 | 06/04/2019 | 22:04:13 | 0.021 |
| 371 | 06/04/2019 | 22:05:13 | 0.022 |
| 372 | 06/04/2019 | 22:06:13 | 0.021 |
| 373 | 06/04/2019 | 22:07:13 | 0.021 |
| 374 | 06/04/2019 | 22:08:13 | 0.021 |
| 375 | 06/04/2019 | 22:09:13 | 0.021 |
| 376 | 06/04/2019 | 22:10:13 | 0.022 |
| 377 | 06/04/2019 | 22:11:13 | 0.021 |
| 378 | 06/04/2019 | 22:12:13 | 0.021 |
| 379 | 06/04/2019 | 22:13:13 | 0.022 |
| 380 | 06/04/2019 | 22:14:13 | 0.021 |
| 381 | 06/04/2019 | 22:15:13 | 0.022 |
| 382 | 06/04/2019 | 22:16:13 | 0.022 |
| 383 | 06/04/2019 | 22:17:13 | 0.023 |
| 384 | 06/04/2019 | 22:18:13 | 0.022 |
| 385 | 06/04/2019 | 22:19:13 | 0.023 |
| 386 | 06/04/2019 | 22:20:13 | 0.022 |
| 387 | 06/04/2019 | 22:21:13 | 0.023 |
| 388 | 06/04/2019 | 22:22:13 | 0.022 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 389 | 06/04/2019 | 22:23:13 | 0.022 |
| 390 | 06/04/2019 | 22:24:13 | 0.022 |
| 391 | 06/04/2019 | 22:25:13 | 0.023 |
| 392 | 06/04/2019 | 22:26:13 | 0.023 |
| 393 | 06/04/2019 | 22:27:13 | 0.021 |
| 394 | 06/04/2019 | 22:28:13 | 0.022 |
| 395 | 06/04/2019 | 22:29:13 | 0.022 |
| 396 | 06/04/2019 | 22:30:13 | 0.022 |
| 397 | 06/04/2019 | 22:31:13 | 0.021 |
| 398 | 06/04/2019 | 22:32:13 | 0.023 |
| 399 | 06/04/2019 | 22:33:13 | 0.022 |
| 400 | 06/04/2019 | 22:34:13 | 0.021 |
| 401 | 06/04/2019 | 22:35:13 | 0.021 |
| 402 | 06/04/2019 | 22:36:13 | 0.022 |
| 403 | 06/04/2019 | 22:37:13 | 0.021 |
| 404 | 06/04/2019 | 22:38:13 | 0.021 |
| 405 | 06/04/2019 | 22:39:13 | 0.020 |
| 406 | 06/04/2019 | 22:40:13 | 0.022 |
| 407 | 06/04/2019 | 22:41:13 | 0.022 |
| 408 | 06/04/2019 | 22:42:13 | 0.023 |
| 409 | 06/04/2019 | 22:43:13 | 0.021 |
| 410 | 06/04/2019 | 22:44:13 | 0.022 |
| 411 | 06/04/2019 | 22:45:13 | 0.023 |
| 412 | 06/04/2019 | 22:46:13 | 0.022 |
| 413 | 06/04/2019 | 22:47:13 | 0.020 |
| 414 | 06/04/2019 | 22:48:13 | 0.021 |
| 415 | 06/04/2019 | 22:49:13 | 0.022 |
| 416 | 06/04/2019 | 22:50:13 | 0.021 |
| 417 | 06/04/2019 | 22:51:13 | 0.021 |
| 418 | 06/04/2019 | 22:52:13 | 0.020 |
| 419 | 06/04/2019 | 22:53:13 | 0.021 |
| 420 | 06/04/2019 | 22:54:13 | 0.022 |
| 421 | 06/04/2019 | 22:55:13 | 0.021 |
| 422 | 06/04/2019 | 22:56:13 | 0.022 |
| 423 | 06/04/2019 | 22:57:13 | 0.021 |
| 424 | 06/04/2019 | 22:58:13 | 0.021 |
| 425 | 06/04/2019 | 22:59:13 | 0.020 |
| 426 | 06/04/2019 | 23:00:13 | 0.021 |
| 427 | 06/04/2019 | 23:01:13 | 0.021 |
| 428 | 06/04/2019 | 23:02:13 | 0.021 |
| 429 | 06/04/2019 | 23:03:13 | 0.022 |
| 430 | 06/04/2019 | 23:04:13 | 0.023 |
| 431 | 06/04/2019 | 23:05:13 | 0.022 |
| 432 | 06/04/2019 | 23:06:13 | 0.022 |
| 433 | 06/04/2019 | 23:07:13 | 0.022 |
| 434 | 06/04/2019 | 23:08:13 | 0.021 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 435 | 06/04/2019 | 23:09:13 | 0.021 |
| 436 | 06/04/2019 | 23:10:13 | 0.021 |
| 437 | 06/04/2019 | 23:11:13 | 0.022 |
| 438 | 06/04/2019 | 23:12:13 | 0.021 |
| 439 | 06/04/2019 | 23:13:13 | 0.021 |
| 440 | 06/04/2019 | 23:14:13 | 0.021 |
| 441 | 06/04/2019 | 23:15:13 | 0.021 |
| 442 | 06/04/2019 | 23:16:13 | 0.022 |
| 443 | 06/04/2019 | 23:17:13 | 0.021 |
| 444 | 06/04/2019 | 23:18:13 | 0.021 |
| 445 | 06/04/2019 | 23:19:13 | 0.022 |
| 446 | 06/04/2019 | 23:20:13 | 0.021 |
| 447 | 06/04/2019 | 23:21:13 | 0.021 |
| 448 | 06/04/2019 | 23:22:13 | 0.021 |
| 449 | 06/04/2019 | 23:23:13 | 0.022 |
| 450 | 06/04/2019 | 23:24:13 | 0.021 |
| 451 | 06/04/2019 | 23:25:13 | 0.022 |
| 452 | 06/04/2019 | 23:26:13 | 0.023 |
| 453 | 06/04/2019 | 23:27:13 | 0.022 |
| 454 | 06/04/2019 | 23:28:13 | 0.021 |
| 455 | 06/04/2019 | 23:29:13 | 0.022 |
| 456 | 06/04/2019 | 23:30:13 | 0.022 |
| 457 | 06/04/2019 | 23:31:13 | 0.022 |
| 458 | 06/04/2019 | 23:32:13 | 0.021 |
| 459 | 06/04/2019 | 23:33:13 | 0.021 |
| 460 | 06/04/2019 | 23:34:13 | 0.022 |
| 461 | 06/04/2019 | 23:35:13 | 0.021 |
| 462 | 06/04/2019 | 23:36:13 | 0.020 |
| 463 | 06/04/2019 | 23:37:13 | 0.023 |
| 464 | 06/04/2019 | 23:38:13 | 0.021 |
| 465 | 06/04/2019 | 23:39:13 | 0.022 |
| 466 | 06/04/2019 | 23:40:13 | 0.022 |
| 467 | 06/04/2019 | 23:41:13 | 0.021 |
| 468 | 06/04/2019 | 23:42:13 | 0.022 |
| 469 | 06/04/2019 | 23:43:13 | 0.021 |
| 470 | 06/04/2019 | 23:44:13 | 0.022 |
| 471 | 06/04/2019 | 23:45:13 | 0.021 |
| 472 | 06/04/2019 | 23:46:13 | 0.023 |
| 473 | 06/04/2019 | 23:47:13 | 0.021 |
| 474 | 06/04/2019 | 23:48:13 | 0.021 |
| 475 | 06/04/2019 | 23:49:13 | 0.021 |
| 476 | 06/04/2019 | 23:50:13 | 0.022 |
| 477 | 06/04/2019 | 23:51:13 | 0.022 |
| 478 | 06/04/2019 | 23:52:13 | 0.022 |
| 479 | 06/04/2019 | 23:53:13 | 0.021 |
| 480 | 06/04/2019 | 23:54:13 | 0.021 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 481 | 06/04/2019 | 23:55:13 | 0.021 |
| 482 | 06/04/2019 | 23:56:13 | 0.022 |
| 483 | 06/04/2019 | 23:57:13 | 0.021 |
| 484 | 06/04/2019 | 23:58:13 | 0.022 |
| 485 | 06/04/2019 | 23:59:13 | 0.022 |
| 486 | 06/05/2019 | 00:00:13 | 0.022 |
| 487 | 06/05/2019 | 00:01:13 | 0.022 |
| 488 | 06/05/2019 | 00:02:13 | 0.020 |
| 489 | 06/05/2019 | 00:03:13 | 0.022 |
| 490 | 06/05/2019 | 00:04:13 | 0.021 |
| 491 | 06/05/2019 | 00:05:13 | 0.021 |
| 492 | 06/05/2019 | 00:06:13 | 0.021 |
| 493 | 06/05/2019 | 00:07:13 | 0.023 |
| 494 | 06/05/2019 | 00:08:13 | 0.021 |
| 495 | 06/05/2019 | 00:09:13 | 0.020 |
| 496 | 06/05/2019 | 00:10:13 | 0.021 |
| 497 | 06/05/2019 | 00:11:13 | 0.021 |
| 498 | 06/05/2019 | 00:12:13 | 0.021 |
| 499 | 06/05/2019 | 00:13:13 | 0.022 |
| 500 | 06/05/2019 | 00:14:13 | 0.021 |
| 501 | 06/05/2019 | 00:15:13 | 0.022 |
| 502 | 06/05/2019 | 00:16:13 | 0.021 |
| 503 | 06/05/2019 | 00:17:13 | 0.021 |
| 504 | 06/05/2019 | 00:18:13 | 0.021 |
| 505 | 06/05/2019 | 00:19:13 | 0.021 |
| 506 | 06/05/2019 | 00:20:13 | 0.021 |
| 507 | 06/05/2019 | 00:21:13 | 0.021 |
| 508 | 06/05/2019 | 00:22:13 | 0.022 |
| 509 | 06/05/2019 | 00:23:13 | 0.021 |
| 510 | 06/05/2019 | 00:24:13 | 0.022 |
| 511 | 06/05/2019 | 00:25:13 | 0.022 |
| 512 | 06/05/2019 | 00:26:13 | 0.021 |
| 513 | 06/05/2019 | 00:27:13 | 0.022 |
| 514 | 06/05/2019 | 00:28:13 | 0.022 |
| 515 | 06/05/2019 | 00:29:13 | 0.022 |
| 516 | 06/05/2019 | 00:30:13 | 0.022 |
| 517 | 06/05/2019 | 00:31:13 | 0.022 |
| 518 | 06/05/2019 | 00:32:13 | 0.021 |
| 519 | 06/05/2019 | 00:33:13 | 0.022 |
| 520 | 06/05/2019 | 00:34:13 | 0.022 |
| 521 | 06/05/2019 | 00:35:13 | 0.021 |
| 522 | 06/05/2019 | 00:36:13 | 0.023 |
| 523 | 06/05/2019 | 00:37:13 | 0.021 |
| 524 | 06/05/2019 | 00:38:13 | 0.022 |
| 525 | 06/05/2019 | 00:39:13 | 0.022 |
| 526 | 06/05/2019 | 00:40:13 | 0.023 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 527 | 06/05/2019 | 00:41:13 | 0.023 |
| 528 | 06/05/2019 | 00:42:13 | 0.022 |
| 529 | 06/05/2019 | 00:43:13 | 0.022 |
| 530 | 06/05/2019 | 00:44:13 | 0.021 |
| 531 | 06/05/2019 | 00:45:13 | 0.021 |
| 532 | 06/05/2019 | 00:46:13 | 0.023 |
| 533 | 06/05/2019 | 00:47:13 | 0.021 |
| 534 | 06/05/2019 | 00:48:13 | 0.023 |
| 535 | 06/05/2019 | 00:49:13 | 0.021 |
| 536 | 06/05/2019 | 00:50:13 | 0.022 |
| 537 | 06/05/2019 | 00:51:13 | 0.022 |
| 538 | 06/05/2019 | 00:52:13 | 0.022 |
| 539 | 06/05/2019 | 00:53:13 | 0.023 |
| 540 | 06/05/2019 | 00:54:13 | 0.023 |
| 541 | 06/05/2019 | 00:55:13 | 0.022 |
| 542 | 06/05/2019 | 00:56:13 | 0.023 |
| 543 | 06/05/2019 | 00:57:13 | 0.023 |
| 544 | 06/05/2019 | 00:58:13 | 0.023 |
| 545 | 06/05/2019 | 00:59:13 | 0.022 |
| 546 | 06/05/2019 | 01:00:13 | 0.022 |
| 547 | 06/05/2019 | 01:01:13 | 0.021 |
| 548 | 06/05/2019 | 01:02:13 | 0.022 |
| 549 | 06/05/2019 | 01:03:13 | 0.022 |
| 550 | 06/05/2019 | 01:04:13 | 0.022 |
| 551 | 06/05/2019 | 01:05:13 | 0.021 |
| 552 | 06/05/2019 | 01:06:13 | 0.022 |
| 553 | 06/05/2019 | 01:07:13 | 0.022 |
| 554 | 06/05/2019 | 01:08:13 | 0.022 |
| 555 | 06/05/2019 | 01:09:13 | 0.022 |
| 556 | 06/05/2019 | 01:10:13 | 0.023 |
| 557 | 06/05/2019 | 01:11:13 | 0.021 |
| 558 | 06/05/2019 | 01:12:13 | 0.022 |
| 559 | 06/05/2019 | 01:13:13 | 0.022 |
| 560 | 06/05/2019 | 01:14:13 | 0.022 |
| 561 | 06/05/2019 | 01:15:13 | 0.022 |
| 562 | 06/05/2019 | 01:16:13 | 0.021 |
| 563 | 06/05/2019 | 01:17:13 | 0.023 |
| 564 | 06/05/2019 | 01:18:13 | 0.023 |
| 565 | 06/05/2019 | 01:19:13 | 0.023 |
| 566 | 06/05/2019 | 01:20:13 | 0.022 |
| 567 | 06/05/2019 | 01:21:13 | 0.022 |
| 568 | 06/05/2019 | 01:22:13 | 0.023 |
| 569 | 06/05/2019 | 01:23:13 | 0.021 |
| 570 | 06/05/2019 | 01:24:13 | 0.022 |
| 571 | 06/05/2019 | 01:25:13 | 0.023 |
| 572 | 06/05/2019 | 01:26:13 | 0.022 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 573 | 06/05/2019 | 01:27:13 | 0.022 |
| 574 | 06/05/2019 | 01:28:13 | 0.022 |
| 575 | 06/05/2019 | 01:29:13 | 0.022 |
| 576 | 06/05/2019 | 01:30:13 | 0.023 |
| 577 | 06/05/2019 | 01:31:13 | 0.022 |
| 578 | 06/05/2019 | 01:32:13 | 0.023 |
| 579 | 06/05/2019 | 01:33:13 | 0.022 |
| 580 | 06/05/2019 | 01:34:13 | 0.023 |
| 581 | 06/05/2019 | 01:35:13 | 0.022 |
| 582 | 06/05/2019 | 01:36:13 | 0.023 |
| 583 | 06/05/2019 | 01:37:13 | 0.022 |
| 584 | 06/05/2019 | 01:38:13 | 0.022 |
| 585 | 06/05/2019 | 01:39:13 | 0.023 |
| 586 | 06/05/2019 | 01:40:13 | 0.023 |
| 587 | 06/05/2019 | 01:41:13 | 0.023 |
| 588 | 06/05/2019 | 01:42:13 | 0.024 |
| 589 | 06/05/2019 | 01:43:13 | 0.024 |
| 590 | 06/05/2019 | 01:44:13 | 0.023 |
| 591 | 06/05/2019 | 01:45:13 | 0.024 |
| 592 | 06/05/2019 | 01:46:13 | 0.023 |
| 593 | 06/05/2019 | 01:47:13 | 0.023 |
| 594 | 06/05/2019 | 01:48:13 | 0.023 |
| 595 | 06/05/2019 | 01:49:13 | 0.024 |
| 596 | 06/05/2019 | 01:50:13 | 0.024 |
| 597 | 06/05/2019 | 01:51:13 | 0.024 |
| 598 | 06/05/2019 | 01:52:13 | 0.023 |
| 599 | 06/05/2019 | 01:53:13 | 0.023 |
| 600 | 06/05/2019 | 01:54:13 | 0.024 |
| 601 | 06/05/2019 | 01:55:13 | 0.024 |
| 602 | 06/05/2019 | 01:56:13 | 0.023 |
| 603 | 06/05/2019 | 01:57:13 | 0.023 |
| 604 | 06/05/2019 | 01:58:13 | 0.023 |
| 605 | 06/05/2019 | 01:59:13 | 0.022 |
| 606 | 06/05/2019 | 02:00:13 | 0.024 |
| 607 | 06/05/2019 | 02:01:13 | 0.023 |
| 608 | 06/05/2019 | 02:02:13 | 0.023 |
| 609 | 06/05/2019 | 02:03:13 | 0.024 |
| 610 | 06/05/2019 | 02:04:13 | 0.023 |
| 611 | 06/05/2019 | 02:05:13 | 0.023 |
| 612 | 06/05/2019 | 02:06:13 | 0.023 |
| 613 | 06/05/2019 | 02:07:13 | 0.023 |
| 614 | 06/05/2019 | 02:08:13 | 0.024 |
| 615 | 06/05/2019 | 02:09:13 | 0.024 |
| 616 | 06/05/2019 | 02:10:13 | 0.025 |
| 617 | 06/05/2019 | 02:11:13 | 0.023 |
| 618 | 06/05/2019 | 02:12:13 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 619 | 06/05/2019 | 02:13:13 | 0.024 |
| 620 | 06/05/2019 | 02:14:13 | 0.023 |
| 621 | 06/05/2019 | 02:15:13 | 0.023 |
| 622 | 06/05/2019 | 02:16:13 | 0.024 |
| 623 | 06/05/2019 | 02:17:13 | 0.024 |
| 624 | 06/05/2019 | 02:18:13 | 0.025 |
| 625 | 06/05/2019 | 02:19:13 | 0.024 |
| 626 | 06/05/2019 | 02:20:13 | 0.023 |
| 627 | 06/05/2019 | 02:21:13 | 0.024 |
| 628 | 06/05/2019 | 02:22:13 | 0.024 |
| 629 | 06/05/2019 | 02:23:13 | 0.023 |
| 630 | 06/05/2019 | 02:24:13 | 0.023 |
| 631 | 06/05/2019 | 02:25:13 | 0.024 |
| 632 | 06/05/2019 | 02:26:13 | 0.023 |
| 633 | 06/05/2019 | 02:27:13 | 0.023 |
| 634 | 06/05/2019 | 02:28:13 | 0.024 |
| 635 | 06/05/2019 | 02:29:13 | 0.023 |
| 636 | 06/05/2019 | 02:30:13 | 0.023 |
| 637 | 06/05/2019 | 02:31:13 | 0.024 |
| 638 | 06/05/2019 | 02:32:13 | 0.024 |
| 639 | 06/05/2019 | 02:33:13 | 0.024 |
| 640 | 06/05/2019 | 02:34:13 | 0.024 |
| 641 | 06/05/2019 | 02:35:13 | 0.023 |
| 642 | 06/05/2019 | 02:36:13 | 0.024 |
| 643 | 06/05/2019 | 02:37:13 | 0.023 |
| 644 | 06/05/2019 | 02:38:13 | 0.024 |
| 645 | 06/05/2019 | 02:39:13 | 0.024 |
| 646 | 06/05/2019 | 02:40:13 | 0.023 |
| 647 | 06/05/2019 | 02:41:13 | 0.023 |
| 648 | 06/05/2019 | 02:42:13 | 0.024 |
| 649 | 06/05/2019 | 02:43:13 | 0.023 |
| 650 | 06/05/2019 | 02:44:13 | 0.024 |
| 651 | 06/05/2019 | 02:45:13 | 0.024 |
| 652 | 06/05/2019 | 02:46:13 | 0.024 |
| 653 | 06/05/2019 | 02:47:13 | 0.024 |
| 654 | 06/05/2019 | 02:48:13 | 0.025 |
| 655 | 06/05/2019 | 02:49:13 | 0.023 |
| 656 | 06/05/2019 | 02:50:13 | 0.024 |
| 657 | 06/05/2019 | 02:51:13 | 0.023 |
| 658 | 06/05/2019 | 02:52:13 | 0.025 |
| 659 | 06/05/2019 | 02:53:13 | 0.024 |
| 660 | 06/05/2019 | 02:54:13 | 0.024 |
| 661 | 06/05/2019 | 02:55:13 | 0.023 |
| 662 | 06/05/2019 | 02:56:13 | 0.023 |
| 663 | 06/05/2019 | 02:57:13 | 0.023 |
| 664 | 06/05/2019 | 02:58:13 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 665 | 06/05/2019 | 02:59:13 | 0.024 |
| 666 | 06/05/2019 | 03:00:13 | 0.023 |
| 667 | 06/05/2019 | 03:01:13 | 0.024 |
| 668 | 06/05/2019 | 03:02:13 | 0.023 |
| 669 | 06/05/2019 | 03:03:13 | 0.023 |
| 670 | 06/05/2019 | 03:04:13 | 0.024 |
| 671 | 06/05/2019 | 03:05:13 | 0.023 |
| 672 | 06/05/2019 | 03:06:13 | 0.024 |
| 673 | 06/05/2019 | 03:07:13 | 0.024 |
| 674 | 06/05/2019 | 03:08:13 | 0.024 |
| 675 | 06/05/2019 | 03:09:13 | 0.024 |
| 676 | 06/05/2019 | 03:10:13 | 0.024 |
| 677 | 06/05/2019 | 03:11:13 | 0.024 |
| 678 | 06/05/2019 | 03:12:13 | 0.024 |
| 679 | 06/05/2019 | 03:13:13 | 0.024 |
| 680 | 06/05/2019 | 03:14:13 | 0.024 |
| 681 | 06/05/2019 | 03:15:13 | 0.024 |
| 682 | 06/05/2019 | 03:16:13 | 0.023 |
| 683 | 06/05/2019 | 03:17:13 | 0.024 |
| 684 | 06/05/2019 | 03:18:13 | 0.024 |
| 685 | 06/05/2019 | 03:19:13 | 0.024 |
| 686 | 06/05/2019 | 03:20:13 | 0.024 |
| 687 | 06/05/2019 | 03:21:13 | 0.024 |
| 688 | 06/05/2019 | 03:22:13 | 0.023 |
| 689 | 06/05/2019 | 03:23:13 | 0.024 |
| 690 | 06/05/2019 | 03:24:13 | 0.024 |
| 691 | 06/05/2019 | 03:25:13 | 0.025 |
| 692 | 06/05/2019 | 03:26:13 | 0.023 |
| 693 | 06/05/2019 | 03:27:13 | 0.024 |
| 694 | 06/05/2019 | 03:28:13 | 0.024 |
| 695 | 06/05/2019 | 03:29:13 | 0.024 |
| 696 | 06/05/2019 | 03:30:13 | 0.024 |
| 697 | 06/05/2019 | 03:31:13 | 0.024 |
| 698 | 06/05/2019 | 03:32:13 | 0.024 |
| 699 | 06/05/2019 | 03:33:13 | 0.024 |
| 700 | 06/05/2019 | 03:34:13 | 0.024 |
| 701 | 06/05/2019 | 03:35:13 | 0.024 |
| 702 | 06/05/2019 | 03:36:13 | 0.024 |
| 703 | 06/05/2019 | 03:37:13 | 0.024 |
| 704 | 06/05/2019 | 03:38:13 | 0.025 |
| 705 | 06/05/2019 | 03:39:13 | 0.024 |
| 706 | 06/05/2019 | 03:40:13 | 0.024 |
| 707 | 06/05/2019 | 03:41:13 | 0.024 |
| 708 | 06/05/2019 | 03:42:13 | 0.024 |
| 709 | 06/05/2019 | 03:43:13 | 0.024 |
| 710 | 06/05/2019 | 03:44:13 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 711 | 06/05/2019 | 03:45:13 | 0.024 |
| 712 | 06/05/2019 | 03:46:13 | 0.024 |
| 713 | 06/05/2019 | 03:47:13 | 0.024 |
| 714 | 06/05/2019 | 03:48:13 | 0.024 |
| 715 | 06/05/2019 | 03:49:13 | 0.024 |
| 716 | 06/05/2019 | 03:50:13 | 0.024 |
| 717 | 06/05/2019 | 03:51:13 | 0.024 |
| 718 | 06/05/2019 | 03:52:13 | 0.024 |
| 719 | 06/05/2019 | 03:53:13 | 0.024 |
| 720 | 06/05/2019 | 03:54:13 | 0.024 |
| 721 | 06/05/2019 | 03:55:13 | 0.024 |
| 722 | 06/05/2019 | 03:56:13 | 0.024 |
| 723 | 06/05/2019 | 03:57:13 | 0.024 |
| 724 | 06/05/2019 | 03:58:13 | 0.024 |
| 725 | 06/05/2019 | 03:59:13 | 0.024 |
| 726 | 06/05/2019 | 04:00:13 | 0.024 |
| 727 | 06/05/2019 | 04:01:13 | 0.025 |
| 728 | 06/05/2019 | 04:02:13 | 0.024 |
| 729 | 06/05/2019 | 04:03:13 | 0.024 |
| 730 | 06/05/2019 | 04:04:13 | 0.025 |
| 731 | 06/05/2019 | 04:05:13 | 0.025 |
| 732 | 06/05/2019 | 04:06:13 | 0.024 |
| 733 | 06/05/2019 | 04:07:13 | 0.024 |
| 734 | 06/05/2019 | 04:08:13 | 0.023 |
| 735 | 06/05/2019 | 04:09:13 | 0.023 |
| 736 | 06/05/2019 | 04:10:13 | 0.025 |
| 737 | 06/05/2019 | 04:11:13 | 0.024 |
| 738 | 06/05/2019 | 04:12:13 | 0.023 |
| 739 | 06/05/2019 | 04:13:13 | 0.024 |
| 740 | 06/05/2019 | 04:14:13 | 0.024 |
| 741 | 06/05/2019 | 04:15:13 | 0.024 |
| 742 | 06/05/2019 | 04:16:13 | 0.025 |
| 743 | 06/05/2019 | 04:17:13 | 0.024 |
| 744 | 06/05/2019 | 04:18:13 | 0.024 |
| 745 | 06/05/2019 | 04:19:13 | 0.023 |
| 746 | 06/05/2019 | 04:20:13 | 0.024 |
| 747 | 06/05/2019 | 04:21:13 | 0.024 |
| 748 | 06/05/2019 | 04:22:13 | 0.025 |
| 749 | 06/05/2019 | 04:23:13 | 0.024 |
| 750 | 06/05/2019 | 04:24:13 | 0.025 |
| 751 | 06/05/2019 | 04:25:13 | 0.025 |
| 752 | 06/05/2019 | 04:26:13 | 0.024 |
| 753 | 06/05/2019 | 04:27:13 | 0.024 |
| 754 | 06/05/2019 | 04:28:13 | 0.024 |
| 755 | 06/05/2019 | 04:29:13 | 0.024 |
| 756 | 06/05/2019 | 04:30:13 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 757 | 06/05/2019 | 04:31:13 | 0.024 |
| 758 | 06/05/2019 | 04:32:13 | 0.024 |
| 759 | 06/05/2019 | 04:33:13 | 0.025 |
| 760 | 06/05/2019 | 04:34:13 | 0.025 |
| 761 | 06/05/2019 | 04:35:13 | 0.024 |
| 762 | 06/05/2019 | 04:36:13 | 0.025 |
| 763 | 06/05/2019 | 04:37:13 | 0.024 |
| 764 | 06/05/2019 | 04:38:13 | 0.026 |
| 765 | 06/05/2019 | 04:39:13 | 0.025 |
| 766 | 06/05/2019 | 04:40:13 | 0.025 |
| 767 | 06/05/2019 | 04:41:13 | 0.024 |
| 768 | 06/05/2019 | 04:42:13 | 0.024 |
| 769 | 06/05/2019 | 04:43:13 | 0.025 |
| 770 | 06/05/2019 | 04:44:13 | 0.024 |
| 771 | 06/05/2019 | 04:45:13 | 0.025 |
| 772 | 06/05/2019 | 04:46:13 | 0.025 |
| 773 | 06/05/2019 | 04:47:13 | 0.025 |
| 774 | 06/05/2019 | 04:48:13 | 0.024 |
| 775 | 06/05/2019 | 04:49:13 | 0.025 |
| 776 | 06/05/2019 | 04:50:13 | 0.024 |
| 777 | 06/05/2019 | 04:51:13 | 0.026 |
| 778 | 06/05/2019 | 04:52:13 | 0.024 |
| 779 | 06/05/2019 | 04:53:13 | 0.024 |
| 780 | 06/05/2019 | 04:54:13 | 0.025 |
| 781 | 06/05/2019 | 04:55:13 | 0.025 |
| 782 | 06/05/2019 | 04:56:13 | 0.024 |
| 783 | 06/05/2019 | 04:57:13 | 0.025 |
| 784 | 06/05/2019 | 04:58:13 | 0.024 |
| 785 | 06/05/2019 | 04:59:13 | 0.026 |
| 786 | 06/05/2019 | 05:00:13 | 0.025 |
| 787 | 06/05/2019 | 05:01:13 | 0.024 |
| 788 | 06/05/2019 | 05:02:13 | 0.025 |
| 789 | 06/05/2019 | 05:03:13 | 0.025 |
| 790 | 06/05/2019 | 05:04:13 | 0.024 |
| 791 | 06/05/2019 | 05:05:13 | 0.025 |
| 792 | 06/05/2019 | 05:06:13 | 0.024 |
| 793 | 06/05/2019 | 05:07:13 | 0.025 |
| 794 | 06/05/2019 | 05:08:13 | 0.025 |
| 795 | 06/05/2019 | 05:09:13 | 0.024 |
| 796 | 06/05/2019 | 05:10:13 | 0.025 |
| 797 | 06/05/2019 | 05:11:13 | 0.024 |
| 798 | 06/05/2019 | 05:12:13 | 0.025 |
| 799 | 06/05/2019 | 05:13:13 | 0.025 |
| 800 | 06/05/2019 | 05:14:13 | 0.024 |
| 801 | 06/05/2019 | 05:15:13 | 0.024 |
| 802 | 06/05/2019 | 05:16:13 | 0.024 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 803 | 06/05/2019 | 05:17:13 | 0.025 |
| 804 | 06/05/2019 | 05:18:13 | 0.025 |
| 805 | 06/05/2019 | 05:19:13 | 0.025 |
| 806 | 06/05/2019 | 05:20:13 | 0.025 |
| 807 | 06/05/2019 | 05:21:13 | 0.025 |
| 808 | 06/05/2019 | 05:22:13 | 0.025 |
| 809 | 06/05/2019 | 05:23:13 | 0.025 |
| 810 | 06/05/2019 | 05:24:13 | 0.025 |
| 811 | 06/05/2019 | 05:25:13 | 0.025 |
| 812 | 06/05/2019 | 05:26:13 | 0.025 |
| 813 | 06/05/2019 | 05:27:13 | 0.024 |
| 814 | 06/05/2019 | 05:28:13 | 0.023 |
| 815 | 06/05/2019 | 05:29:13 | 0.025 |
| 816 | 06/05/2019 | 05:30:13 | 0.025 |
| 817 | 06/05/2019 | 05:31:13 | 0.024 |
| 818 | 06/05/2019 | 05:32:13 | 0.025 |
| 819 | 06/05/2019 | 05:33:13 | 0.025 |
| 820 | 06/05/2019 | 05:34:13 | 0.025 |
| 821 | 06/05/2019 | 05:35:13 | 0.025 |
| 822 | 06/05/2019 | 05:36:13 | 0.025 |
| 823 | 06/05/2019 | 05:37:13 | 0.025 |
| 824 | 06/05/2019 | 05:38:13 | 0.025 |
| 825 | 06/05/2019 | 05:39:13 | 0.025 |
| 826 | 06/05/2019 | 05:40:13 | 0.026 |
| 827 | 06/05/2019 | 05:41:13 | 0.025 |
| 828 | 06/05/2019 | 05:42:13 | 0.024 |
| 829 | 06/05/2019 | 05:43:13 | 0.025 |
| 830 | 06/05/2019 | 05:44:13 | 0.025 |
| 831 | 06/05/2019 | 05:45:13 | 0.025 |
| 832 | 06/05/2019 | 05:46:13 | 0.025 |
| 833 | 06/05/2019 | 05:47:13 | 0.025 |
| 834 | 06/05/2019 | 05:48:13 | 0.026 |
| 835 | 06/05/2019 | 05:49:13 | 0.024 |
| 836 | 06/05/2019 | 05:50:13 | 0.025 |
| 837 | 06/05/2019 | 05:51:13 | 0.026 |
| 838 | 06/05/2019 | 05:52:13 | 0.025 |
| 839 | 06/05/2019 | 05:53:13 | 0.025 |
| 840 | 06/05/2019 | 05:54:13 | 0.024 |
| 841 | 06/05/2019 | 05:55:13 | 0.025 |
| 842 | 06/05/2019 | 05:56:13 | 0.025 |
| 843 | 06/05/2019 | 05:57:13 | 0.026 |
| 844 | 06/05/2019 | 05:58:13 | 0.025 |
| 845 | 06/05/2019 | 05:59:13 | 0.026 |
| 846 | 06/05/2019 | 06:00:13 | 0.026 |
| 847 | 06/05/2019 | 06:01:13 | 0.025 |
| 848 | 06/05/2019 | 06:02:13 | 0.025 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 849 | 06/05/2019 | 06:03:13 | 0.025 |
| 850 | 06/05/2019 | 06:04:13 | 0.027 |
| 851 | 06/05/2019 | 06:05:13 | 0.026 |
| 852 | 06/05/2019 | 06:06:13 | 0.026 |
| 853 | 06/05/2019 | 06:07:13 | 0.026 |
| 854 | 06/05/2019 | 06:08:13 | 0.026 |
| 855 | 06/05/2019 | 06:09:13 | 0.026 |
| 856 | 06/05/2019 | 06:10:13 | 0.026 |
| 857 | 06/05/2019 | 06:11:13 | 0.026 |
| 858 | 06/05/2019 | 06:12:13 | 0.025 |
| 859 | 06/05/2019 | 06:13:13 | 0.026 |
| 860 | 06/05/2019 | 06:14:13 | 0.027 |
| 861 | 06/05/2019 | 06:15:13 | 0.025 |
| 862 | 06/05/2019 | 06:16:13 | 0.027 |
| 863 | 06/05/2019 | 06:17:13 | 0.026 |
| 864 | 06/05/2019 | 06:18:13 | 0.027 |
| 865 | 06/05/2019 | 06:19:13 | 0.026 |
| 866 | 06/05/2019 | 06:20:13 | 0.027 |
| 867 | 06/05/2019 | 06:21:13 | 0.026 |
| 868 | 06/05/2019 | 06:22:13 | 0.027 |
| 869 | 06/05/2019 | 06:23:13 | 0.027 |
| 870 | 06/05/2019 | 06:24:13 | 0.027 |
| 871 | 06/05/2019 | 06:25:13 | 0.027 |
| 872 | 06/05/2019 | 06:26:13 | 0.027 |
| 873 | 06/05/2019 | 06:27:13 | 0.027 |
| 874 | 06/05/2019 | 06:28:13 | 0.027 |
| 875 | 06/05/2019 | 06:29:13 | 0.027 |
| 876 | 06/05/2019 | 06:30:13 | 0.027 |
| 877 | 06/05/2019 | 06:31:13 | 0.027 |
| 878 | 06/05/2019 | 06:32:13 | 0.028 |
| 879 | 06/05/2019 | 06:33:13 | 0.026 |
| 880 | 06/05/2019 | 06:34:13 | 0.027 |
| 881 | 06/05/2019 | 06:35:13 | 0.027 |
| 882 | 06/05/2019 | 06:36:13 | 0.028 |
| 883 | 06/05/2019 | 06:37:13 | 0.027 |
| 884 | 06/05/2019 | 06:38:13 | 0.027 |
| 885 | 06/05/2019 | 06:39:13 | 0.027 |
| 886 | 06/05/2019 | 06:40:13 | 0.026 |
| 887 | 06/05/2019 | 06:41:13 | 0.026 |
| 888 | 06/05/2019 | 06:42:13 | 0.027 |
| 889 | 06/05/2019 | 06:43:13 | 0.027 |
| 890 | 06/05/2019 | 06:44:13 | 0.028 |
| 891 | 06/05/2019 | 06:45:13 | 0.028 |
| 892 | 06/05/2019 | 06:46:13 | 0.027 |
| 893 | 06/05/2019 | 06:47:13 | 0.027 |
| 894 | 06/05/2019 | 06:48:13 | 0.028 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 895 | 06/05/2019 | 06:49:13 | 0.028 |
| 896 | 06/05/2019 | 06:50:13 | 0.027 |
| 897 | 06/05/2019 | 06:51:13 | 0.028 |
| 898 | 06/05/2019 | 06:52:13 | 0.027 |
| 899 | 06/05/2019 | 06:53:13 | 0.027 |
| 900 | 06/05/2019 | 06:54:13 | 0.027 |
| 901 | 06/05/2019 | 06:55:13 | 0.027 |
| 902 | 06/05/2019 | 06:56:13 | 0.028 |
| 903 | 06/05/2019 | 06:57:13 | 0.027 |
| 904 | 06/05/2019 | 06:58:13 | 0.028 |
| 905 | 06/05/2019 | 06:59:13 | 0.027 |
| 906 | 06/05/2019 | 07:00:13 | 0.028 |
| 907 | 06/05/2019 | 07:01:13 | 0.028 |
| 908 | 06/05/2019 | 07:02:13 | 0.029 |
| 909 | 06/05/2019 | 07:03:13 | 0.028 |
| 910 | 06/05/2019 | 07:04:13 | 0.028 |
| 911 | 06/05/2019 | 07:05:13 | 0.028 |
| 912 | 06/05/2019 | 07:06:13 | 0.028 |
| 913 | 06/05/2019 | 07:07:13 | 0.028 |
| 914 | 06/05/2019 | 07:08:13 | 0.028 |
| 915 | 06/05/2019 | 07:09:13 | 0.028 |
| 916 | 06/05/2019 | 07:10:13 | 0.028 |
| 917 | 06/05/2019 | 07:11:13 | 0.028 |
| 918 | 06/05/2019 | 07:12:13 | 0.028 |
| 919 | 06/05/2019 | 07:13:13 | 0.028 |
| 920 | 06/05/2019 | 07:14:13 | 0.029 |
| 921 | 06/05/2019 | 07:15:13 | 0.028 |
| 922 | 06/05/2019 | 07:16:13 | 0.028 |
| 923 | 06/05/2019 | 07:17:13 | 0.028 |
| 924 | 06/05/2019 | 07:18:13 | 0.028 |
| 925 | 06/05/2019 | 07:19:13 | 0.028 |
| 926 | 06/05/2019 | 07:20:13 | 0.029 |
| 927 | 06/05/2019 | 07:21:13 | 0.029 |
| 928 | 06/05/2019 | 07:22:13 | 0.029 |
| 929 | 06/05/2019 | 07:23:13 | 0.029 |
| 930 | 06/05/2019 | 07:24:13 | 0.028 |
| 931 | 06/05/2019 | 07:25:13 | 0.029 |
| 932 | 06/05/2019 | 07:26:13 | 0.029 |
| 933 | 06/05/2019 | 07:27:13 | 0.029 |
| 934 | 06/05/2019 | 07:28:13 | 0.029 |
| 935 | 06/05/2019 | 07:29:13 | 0.028 |
| 936 | 06/05/2019 | 07:30:13 | 0.029 |
| 937 | 06/05/2019 | 07:31:13 | 0.029 |
| 938 | 06/05/2019 | 07:32:13 | 0.029 |
| 939 | 06/05/2019 | 07:33:13 | 0.028 |
| 940 | 06/05/2019 | 07:34:13 | 0.029 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 941 | 06/05/2019 | 07:35:13 | 0.029 |
| 942 | 06/05/2019 | 07:36:13 | 0.028 |
| 943 | 06/05/2019 | 07:37:13 | 0.028 |
| 944 | 06/05/2019 | 07:38:13 | 0.029 |
| 945 | 06/05/2019 | 07:39:13 | 0.029 |
| 946 | 06/05/2019 | 07:40:13 | 0.029 |
| 947 | 06/05/2019 | 07:41:13 | 0.028 |
| 948 | 06/05/2019 | 07:42:13 | 0.028 |
| 949 | 06/05/2019 | 07:43:13 | 0.028 |
| 950 | 06/05/2019 | 07:44:13 | 0.028 |
| 951 | 06/05/2019 | 07:45:13 | 0.028 |
| 952 | 06/05/2019 | 07:46:13 | 0.028 |
| 953 | 06/05/2019 | 07:47:13 | 0.028 |
| 954 | 06/05/2019 | 07:48:13 | 0.028 |
| 955 | 06/05/2019 | 07:49:13 | 0.027 |
| 956 | 06/05/2019 | 07:50:13 | 0.028 |
| 957 | 06/05/2019 | 07:51:13 | 0.028 |
| 958 | 06/05/2019 | 07:52:13 | 0.028 |
| 959 | 06/05/2019 | 07:53:13 | 0.027 |
| 960 | 06/05/2019 | 07:54:13 | 0.027 |
| 961 | 06/05/2019 | 07:55:13 | 0.028 |
| 962 | 06/05/2019 | 07:56:13 | 0.027 |
| 963 | 06/05/2019 | 07:57:13 | 0.029 |
| 964 | 06/05/2019 | 07:58:13 | 0.028 |
| 965 | 06/05/2019 | 07:59:13 | 0.028 |
| 966 | 06/05/2019 | 08:00:13 | 0.028 |
| 967 | 06/05/2019 | 08:01:13 | 0.028 |
| 968 | 06/05/2019 | 08:02:13 | 0.028 |
| 969 | 06/05/2019 | 08:03:13 | 0.028 |
| 970 | 06/05/2019 | 08:04:13 | 0.027 |
| 971 | 06/05/2019 | 08:05:13 | 0.028 |
| 972 | 06/05/2019 | 08:06:13 | 0.027 |
| 973 | 06/05/2019 | 08:07:13 | 0.027 |
| 974 | 06/05/2019 | 08:08:13 | 0.027 |
| 975 | 06/05/2019 | 08:09:13 | 0.028 |
| 976 | 06/05/2019 | 08:10:13 | 0.058 |
| 977 | 06/05/2019 | 08:11:13 | 0.034 |
| 978 | 06/05/2019 | 08:12:13 | 0.051 |
| 979 | 06/05/2019 | 08:13:13 | 0.040 |
| 980 | 06/05/2019 | 08:14:13 | 0.037 |

# Test 005

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 06/05/2019 |
| Instrument S/N | 8530171505 | Start Time | 08:28:38 |
| | | Stop Date | 06/05/2019 |
| | | Stop Time | 14:40:38 |
| | | Total Time | 0:06:12:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.195 mg/m^3 |
| Max | 0.750 mg/m^3 |
| Max Date | 06/05/2019 |
| Max Time | 09:16:38 |
| Min | 0.034 mg/m^3 |
| Min Date | 06/05/2019 |
| Min Time | 12:47:38 |
| TWA (8 hr) | 0.151 |
| TWA Start Date | 06/05/2019 |
| TWA Start Time | 08:28:38 |
| TWA End Time | 14:40:38 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 06/05/2019 | 08:29:38 | 0.162 |
| 2 | 06/05/2019 | 08:30:38 | 0.218 |
| 3 | 06/05/2019 | 08:31:38 | 0.223 |
| 4 | 06/05/2019 | 08:32:38 | 0.229 |
| 5 | 06/05/2019 | 08:33:38 | 0.246 |
| 6 | 06/05/2019 | 08:34:38 | 0.246 |
| 7 | 06/05/2019 | 08:35:38 | 0.182 |
| 8 | 06/05/2019 | 08:36:38 | 0.126 |
| 9 | 06/05/2019 | 08:37:38 | 0.110 |
| 10 | 06/05/2019 | 08:38:38 | 0.100 |
| 11 | 06/05/2019 | 08:39:38 | 0.066 |
| 12 | 06/05/2019 | 08:40:38 | 0.236 |
| 13 | 06/05/2019 | 08:41:38 | 0.131 |
| 14 | 06/05/2019 | 08:42:38 | 0.292 |
| 15 | 06/05/2019 | 08:43:38 | 0.451 |
| 16 | 06/05/2019 | 08:44:38 | 0.473 |
| 17 | 06/05/2019 | 08:45:38 | 0.475 |
| 18 | 06/05/2019 | 08:46:38 | 0.467 |
| 19 | 06/05/2019 | 08:47:38 | 0.366 |
| 20 | 06/05/2019 | 08:48:38 | 0.428 |
| 21 | 06/05/2019 | 08:49:38 | 0.409 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 06/05/2019 | 08:50:38 | 0.301 |
| 23 | 06/05/2019 | 08:51:38 | 0.206 |
| 24 | 06/05/2019 | 08:52:38 | 0.276 |
| 25 | 06/05/2019 | 08:53:38 | 0.177 |
| 26 | 06/05/2019 | 08:54:38 | 0.102 |
| 27 | 06/05/2019 | 08:55:38 | 0.082 |
| 28 | 06/05/2019 | 08:56:38 | 0.055 |
| 29 | 06/05/2019 | 08:57:38 | 0.091 |
| 30 | 06/05/2019 | 08:58:38 | 0.080 |
| 31 | 06/05/2019 | 08:59:38 | 0.164 |
| 32 | 06/05/2019 | 09:00:38 | 0.129 |
| 33 | 06/05/2019 | 09:01:38 | 0.211 |
| 34 | 06/05/2019 | 09:02:38 | 0.189 |
| 35 | 06/05/2019 | 09:03:38 | 0.104 |
| 36 | 06/05/2019 | 09:04:38 | 0.327 |
| 37 | 06/05/2019 | 09:05:38 | 0.536 |
| 38 | 06/05/2019 | 09:06:38 | 0.339 |
| 39 | 06/05/2019 | 09:07:38 | 0.359 |
| 40 | 06/05/2019 | 09:08:38 | 0.274 |
| 41 | 06/05/2019 | 09:09:38 | 0.179 |
| 42 | 06/05/2019 | 09:10:38 | 0.088 |
| 43 | 06/05/2019 | 09:11:38 | 0.149 |
| 44 | 06/05/2019 | 09:12:38 | 0.173 |
| 45 | 06/05/2019 | 09:13:38 | 0.320 |
| 46 | 06/05/2019 | 09:14:38 | 0.295 |
| 47 | 06/05/2019 | 09:15:38 | 0.535 |
| 48 | 06/05/2019 | 09:16:38 | 0.750 |
| 49 | 06/05/2019 | 09:17:38 | 0.557 |
| 50 | 06/05/2019 | 09:18:38 | 0.219 |
| 51 | 06/05/2019 | 09:19:38 | 0.219 |
| 52 | 06/05/2019 | 09:20:38 | 0.182 |
| 53 | 06/05/2019 | 09:21:38 | 0.134 |
| 54 | 06/05/2019 | 09:22:38 | 0.325 |
| 55 | 06/05/2019 | 09:23:38 | 0.489 |
| 56 | 06/05/2019 | 09:24:38 | 0.640 |
| 57 | 06/05/2019 | 09:25:38 | 0.335 |
| 58 | 06/05/2019 | 09:26:38 | 0.177 |
| 59 | 06/05/2019 | 09:27:38 | 0.094 |
| 60 | 06/05/2019 | 09:28:38 | 0.055 |
| 61 | 06/05/2019 | 09:29:38 | 0.047 |
| 62 | 06/05/2019 | 09:30:38 | 0.045 |
| 63 | 06/05/2019 | 09:31:38 | 0.044 |
| 64 | 06/05/2019 | 09:32:38 | 0.044 |
| 65 | 06/05/2019 | 09:33:38 | 0.044 |
| 66 | 06/05/2019 | 09:34:38 | 0.044 |
| 67 | 06/05/2019 | 09:35:38 | 0.044 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 68 | 06/05/2019 | 09:36:38 | 0.044 |
| 69 | 06/05/2019 | 09:37:38 | 0.044 |
| 70 | 06/05/2019 | 09:38:38 | 0.044 |
| 71 | 06/05/2019 | 09:39:38 | 0.044 |
| 72 | 06/05/2019 | 09:40:38 | 0.045 |
| 73 | 06/05/2019 | 09:41:38 | 0.044 |
| 74 | 06/05/2019 | 09:42:38 | 0.044 |
| 75 | 06/05/2019 | 09:43:38 | 0.043 |
| 76 | 06/05/2019 | 09:44:38 | 0.044 |
| 77 | 06/05/2019 | 09:45:38 | 0.044 |
| 78 | 06/05/2019 | 09:46:38 | 0.044 |
| 79 | 06/05/2019 | 09:47:38 | 0.044 |
| 80 | 06/05/2019 | 09:48:38 | 0.044 |
| 81 | 06/05/2019 | 09:49:38 | 0.044 |
| 82 | 06/05/2019 | 09:50:38 | 0.044 |
| 83 | 06/05/2019 | 09:51:38 | 0.043 |
| 84 | 06/05/2019 | 09:52:38 | 0.043 |
| 85 | 06/05/2019 | 09:53:38 | 0.043 |
| 86 | 06/05/2019 | 09:54:38 | 0.044 |
| 87 | 06/05/2019 | 09:55:38 | 0.043 |
| 88 | 06/05/2019 | 09:56:38 | 0.043 |
| 89 | 06/05/2019 | 09:57:38 | 0.043 |
| 90 | 06/05/2019 | 09:58:38 | 0.043 |
| 91 | 06/05/2019 | 09:59:38 | 0.043 |
| 92 | 06/05/2019 | 10:00:38 | 0.043 |
| 93 | 06/05/2019 | 10:01:38 | 0.042 |
| 94 | 06/05/2019 | 10:02:38 | 0.042 |
| 95 | 06/05/2019 | 10:03:38 | 0.042 |
| 96 | 06/05/2019 | 10:04:38 | 0.042 |
| 97 | 06/05/2019 | 10:05:38 | 0.041 |
| 98 | 06/05/2019 | 10:06:38 | 0.041 |
| 99 | 06/05/2019 | 10:07:38 | 0.041 |
| 100 | 06/05/2019 | 10:08:38 | 0.040 |
| 101 | 06/05/2019 | 10:09:38 | 0.040 |
| 102 | 06/05/2019 | 10:10:38 | 0.041 |
| 103 | 06/05/2019 | 10:11:38 | 0.041 |
| 104 | 06/05/2019 | 10:12:38 | 0.040 |
| 105 | 06/05/2019 | 10:13:38 | 0.040 |
| 106 | 06/05/2019 | 10:14:38 | 0.039 |
| 107 | 06/05/2019 | 10:15:38 | 0.040 |
| 108 | 06/05/2019 | 10:16:38 | 0.040 |
| 109 | 06/05/2019 | 10:17:38 | 0.039 |
| 110 | 06/05/2019 | 10:18:38 | 0.046 |
| 111 | 06/05/2019 | 10:19:38 | 0.044 |
| 112 | 06/05/2019 | 10:20:38 | 0.049 |
| 113 | 06/05/2019 | 10:21:38 | 0.062 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 114 | 06/05/2019 | 10:22:38 | 0.124 |
| 115 | 06/05/2019 | 10:23:38 | 0.223 |
| 116 | 06/05/2019 | 10:24:38 | 0.281 |
| 117 | 06/05/2019 | 10:25:38 | 0.307 |
| 118 | 06/05/2019 | 10:26:38 | 0.335 |
| 119 | 06/05/2019 | 10:27:38 | 0.355 |
| 120 | 06/05/2019 | 10:28:38 | 0.364 |
| 121 | 06/05/2019 | 10:29:38 | 0.368 |
| 122 | 06/05/2019 | 10:30:38 | 0.350 |
| 123 | 06/05/2019 | 10:31:38 | 0.334 |
| 124 | 06/05/2019 | 10:32:38 | 0.341 |
| 125 | 06/05/2019 | 10:33:38 | 0.357 |
| 126 | 06/05/2019 | 10:34:38 | 0.393 |
| 127 | 06/05/2019 | 10:35:38 | 0.432 |
| 128 | 06/05/2019 | 10:36:38 | 0.468 |
| 129 | 06/05/2019 | 10:37:38 | 0.456 |
| 130 | 06/05/2019 | 10:38:38 | 0.467 |
| 131 | 06/05/2019 | 10:39:38 | 0.506 |
| 132 | 06/05/2019 | 10:40:38 | 0.515 |
| 133 | 06/05/2019 | 10:41:38 | 0.499 |
| 134 | 06/05/2019 | 10:42:38 | 0.483 |
| 135 | 06/05/2019 | 10:43:38 | 0.491 |
| 136 | 06/05/2019 | 10:44:38 | 0.496 |
| 137 | 06/05/2019 | 10:45:38 | 0.491 |
| 138 | 06/05/2019 | 10:46:38 | 0.497 |
| 139 | 06/05/2019 | 10:47:38 | 0.483 |
| 140 | 06/05/2019 | 10:48:38 | 0.465 |
| 141 | 06/05/2019 | 10:49:38 | 0.470 |
| 142 | 06/05/2019 | 10:50:38 | 0.439 |
| 143 | 06/05/2019 | 10:51:38 | 0.439 |
| 144 | 06/05/2019 | 10:52:38 | 0.426 |
| 145 | 06/05/2019 | 10:53:38 | 0.426 |
| 146 | 06/05/2019 | 10:54:38 | 0.417 |
| 147 | 06/05/2019 | 10:55:38 | 0.388 |
| 148 | 06/05/2019 | 10:56:38 | 0.349 |
| 149 | 06/05/2019 | 10:57:38 | 0.322 |
| 150 | 06/05/2019 | 10:58:38 | 0.308 |
| 151 | 06/05/2019 | 10:59:38 | 0.291 |
| 152 | 06/05/2019 | 11:00:38 | 0.263 |
| 153 | 06/05/2019 | 11:01:38 | 0.246 |
| 154 | 06/05/2019 | 11:02:38 | 0.226 |
| 155 | 06/05/2019 | 11:03:38 | 0.215 |
| 156 | 06/05/2019 | 11:04:38 | 0.200 |
| 157 | 06/05/2019 | 11:05:38 | 0.187 |
| 158 | 06/05/2019 | 11:06:38 | 0.178 |
| 159 | 06/05/2019 | 11:07:38 | 0.167 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 160 | 06/05/2019 | 11:08:38 | 0.210 |
| 161 | 06/05/2019 | 11:09:38 | 0.286 |
| 162 | 06/05/2019 | 11:10:38 | 0.326 |
| 163 | 06/05/2019 | 11:11:38 | 0.351 |
| 164 | 06/05/2019 | 11:12:38 | 0.360 |
| 165 | 06/05/2019 | 11:13:38 | 0.370 |
| 166 | 06/05/2019 | 11:14:38 | 0.390 |
| 167 | 06/05/2019 | 11:15:38 | 0.394 |
| 168 | 06/05/2019 | 11:16:38 | 0.382 |
| 169 | 06/05/2019 | 11:17:38 | 0.416 |
| 170 | 06/05/2019 | 11:18:38 | 0.445 |
| 171 | 06/05/2019 | 11:19:38 | 0.458 |
| 172 | 06/05/2019 | 11:20:38 | 0.462 |
| 173 | 06/05/2019 | 11:21:38 | 0.435 |
| 174 | 06/05/2019 | 11:22:38 | 0.416 |
| 175 | 06/05/2019 | 11:23:38 | 0.402 |
| 176 | 06/05/2019 | 11:24:38 | 0.398 |
| 177 | 06/05/2019 | 11:25:38 | 0.371 |
| 178 | 06/05/2019 | 11:26:38 | 0.335 |
| 179 | 06/05/2019 | 11:27:38 | 0.292 |
| 180 | 06/05/2019 | 11:28:38 | 0.268 |
| 181 | 06/05/2019 | 11:29:38 | 0.250 |
| 182 | 06/05/2019 | 11:30:38 | 0.214 |
| 183 | 06/05/2019 | 11:31:38 | 0.198 |
| 184 | 06/05/2019 | 11:32:38 | 0.178 |
| 185 | 06/05/2019 | 11:33:38 | 0.164 |
| 186 | 06/05/2019 | 11:34:38 | 0.145 |
| 187 | 06/05/2019 | 11:35:38 | 0.136 |
| 188 | 06/05/2019 | 11:36:38 | 0.126 |
| 189 | 06/05/2019 | 11:37:38 | 0.118 |
| 190 | 06/05/2019 | 11:38:38 | 0.108 |
| 191 | 06/05/2019 | 11:39:38 | 0.107 |
| 192 | 06/05/2019 | 11:40:38 | 0.098 |
| 193 | 06/05/2019 | 11:41:38 | 0.091 |
| 194 | 06/05/2019 | 11:42:38 | 0.088 |
| 195 | 06/05/2019 | 11:43:38 | 0.084 |
| 196 | 06/05/2019 | 11:44:38 | 0.081 |
| 197 | 06/05/2019 | 11:45:38 | 0.076 |
| 198 | 06/05/2019 | 11:46:38 | 0.070 |
| 199 | 06/05/2019 | 11:47:38 | 0.068 |
| 200 | 06/05/2019 | 11:48:38 | 0.066 |
| 201 | 06/05/2019 | 11:49:38 | 0.063 |
| 202 | 06/05/2019 | 11:50:38 | 0.062 |
| 203 | 06/05/2019 | 11:51:38 | 0.057 |
| 204 | 06/05/2019 | 11:52:38 | 0.055 |
| 205 | 06/05/2019 | 11:53:38 | 0.054 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 206 | 06/05/2019 | 11:54:38 | 0.054 |
| 207 | 06/05/2019 | 11:55:38 | 0.052 |
| 208 | 06/05/2019 | 11:56:38 | 0.051 |
| 209 | 06/05/2019 | 11:57:38 | 0.048 |
| 210 | 06/05/2019 | 11:58:38 | 0.047 |
| 211 | 06/05/2019 | 11:59:38 | 0.045 |
| 212 | 06/05/2019 | 12:00:38 | 0.044 |
| 213 | 06/05/2019 | 12:01:38 | 0.043 |
| 214 | 06/05/2019 | 12:02:38 | 0.042 |
| 215 | 06/05/2019 | 12:03:38 | 0.042 |
| 216 | 06/05/2019 | 12:04:38 | 0.041 |
| 217 | 06/05/2019 | 12:05:38 | 0.041 |
| 218 | 06/05/2019 | 12:06:38 | 0.041 |
| 219 | 06/05/2019 | 12:07:38 | 0.041 |
| 220 | 06/05/2019 | 12:08:38 | 0.041 |
| 221 | 06/05/2019 | 12:09:38 | 0.040 |
| 222 | 06/05/2019 | 12:10:38 | 0.040 |
| 223 | 06/05/2019 | 12:11:38 | 0.040 |
| 224 | 06/05/2019 | 12:12:38 | 0.040 |
| 225 | 06/05/2019 | 12:13:38 | 0.039 |
| 226 | 06/05/2019 | 12:14:38 | 0.039 |
| 227 | 06/05/2019 | 12:15:38 | 0.039 |
| 228 | 06/05/2019 | 12:16:38 | 0.039 |
| 229 | 06/05/2019 | 12:17:38 | 0.039 |
| 230 | 06/05/2019 | 12:18:38 | 0.038 |
| 231 | 06/05/2019 | 12:19:38 | 0.040 |
| 232 | 06/05/2019 | 12:20:38 | 0.038 |
| 233 | 06/05/2019 | 12:21:38 | 0.037 |
| 234 | 06/05/2019 | 12:22:38 | 0.037 |
| 235 | 06/05/2019 | 12:23:38 | 0.036 |
| 236 | 06/05/2019 | 12:24:38 | 0.037 |
| 237 | 06/05/2019 | 12:25:38 | 0.036 |
| 238 | 06/05/2019 | 12:26:38 | 0.036 |
| 239 | 06/05/2019 | 12:27:38 | 0.036 |
| 240 | 06/05/2019 | 12:28:38 | 0.037 |
| 241 | 06/05/2019 | 12:29:38 | 0.036 |
| 242 | 06/05/2019 | 12:30:38 | 0.036 |
| 243 | 06/05/2019 | 12:31:38 | 0.035 |
| 244 | 06/05/2019 | 12:32:38 | 0.035 |
| 245 | 06/05/2019 | 12:33:38 | 0.035 |
| 246 | 06/05/2019 | 12:34:38 | 0.035 |
| 247 | 06/05/2019 | 12:35:38 | 0.035 |
| 248 | 06/05/2019 | 12:36:38 | 0.036 |
| 249 | 06/05/2019 | 12:37:38 | 0.035 |
| 250 | 06/05/2019 | 12:38:38 | 0.035 |
| 251 | 06/05/2019 | 12:39:38 | 0.035 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 252 | 06/05/2019 | 12:40:38 | 0.035 |
| 253 | 06/05/2019 | 12:41:38 | 0.035 |
| 254 | 06/05/2019 | 12:42:38 | 0.035 |
| 255 | 06/05/2019 | 12:43:38 | 0.035 |
| 256 | 06/05/2019 | 12:44:38 | 0.035 |
| 257 | 06/05/2019 | 12:45:38 | 0.035 |
| 258 | 06/05/2019 | 12:46:38 | 0.035 |
| 259 | 06/05/2019 | 12:47:38 | 0.034 |
| 260 | 06/05/2019 | 12:48:38 | 0.034 |
| 261 | 06/05/2019 | 12:49:38 | 0.034 |
| 262 | 06/05/2019 | 12:50:38 | 0.035 |
| 263 | 06/05/2019 | 12:51:38 | 0.035 |
| 264 | 06/05/2019 | 12:52:38 | 0.035 |
| 265 | 06/05/2019 | 12:53:38 | 0.036 |
| 266 | 06/05/2019 | 12:54:38 | 0.036 |
| 267 | 06/05/2019 | 12:55:38 | 0.037 |
| 268 | 06/05/2019 | 12:56:38 | 0.037 |
| 269 | 06/05/2019 | 12:57:38 | 0.037 |
| 270 | 06/05/2019 | 12:58:38 | 0.037 |
| 271 | 06/05/2019 | 12:59:38 | 0.038 |
| 272 | 06/05/2019 | 13:00:38 | 0.038 |
| 273 | 06/05/2019 | 13:01:38 | 0.038 |
| 274 | 06/05/2019 | 13:02:38 | 0.038 |
| 275 | 06/05/2019 | 13:03:38 | 0.039 |
| 276 | 06/05/2019 | 13:04:38 | 0.040 |
| 277 | 06/05/2019 | 13:05:38 | 0.044 |
| 278 | 06/05/2019 | 13:06:38 | 0.046 |
| 279 | 06/05/2019 | 13:07:38 | 0.055 |
| 280 | 06/05/2019 | 13:08:38 | 0.070 |
| 281 | 06/05/2019 | 13:09:38 | 0.076 |
| 282 | 06/05/2019 | 13:10:38 | 0.097 |
| 283 | 06/05/2019 | 13:11:38 | 0.110 |
| 284 | 06/05/2019 | 13:12:38 | 0.151 |
| 285 | 06/05/2019 | 13:13:38 | 0.230 |
| 286 | 06/05/2019 | 13:14:38 | 0.219 |
| 287 | 06/05/2019 | 13:15:38 | 0.247 |
| 288 | 06/05/2019 | 13:16:38 | 0.236 |
| 289 | 06/05/2019 | 13:17:38 | 0.237 |
| 290 | 06/05/2019 | 13:18:38 | 0.247 |
| 291 | 06/05/2019 | 13:19:38 | 0.253 |
| 292 | 06/05/2019 | 13:20:38 | 0.287 |
| 293 | 06/05/2019 | 13:21:38 | 0.305 |
| 294 | 06/05/2019 | 13:22:38 | 0.314 |
| 295 | 06/05/2019 | 13:23:38 | 0.334 |
| 296 | 06/05/2019 | 13:24:38 | 0.362 |
| 297 | 06/05/2019 | 13:25:38 | 0.399 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 298 | 06/05/2019 | 13:26:38 | 0.392 |
| 299 | 06/05/2019 | 13:27:38 | 0.402 |
| 300 | 06/05/2019 | 13:28:38 | 0.425 |
| 301 | 06/05/2019 | 13:29:38 | 0.422 |
| 302 | 06/05/2019 | 13:30:38 | 0.413 |
| 303 | 06/05/2019 | 13:31:38 | 0.414 |
| 304 | 06/05/2019 | 13:32:38 | 0.446 |
| 305 | 06/05/2019 | 13:33:38 | 0.452 |
| 306 | 06/05/2019 | 13:34:38 | 0.448 |
| 307 | 06/05/2019 | 13:35:38 | 0.469 |
| 308 | 06/05/2019 | 13:36:38 | 0.471 |
| 309 | 06/05/2019 | 13:37:38 | 0.490 |
| 310 | 06/05/2019 | 13:38:38 | 0.496 |
| 311 | 06/05/2019 | 13:39:38 | 0.506 |
| 312 | 06/05/2019 | 13:40:38 | 0.514 |
| 313 | 06/05/2019 | 13:41:38 | 0.515 |
| 314 | 06/05/2019 | 13:42:38 | 0.507 |
| 315 | 06/05/2019 | 13:43:38 | 0.507 |
| 316 | 06/05/2019 | 13:44:38 | 0.507 |
| 317 | 06/05/2019 | 13:45:38 | 0.487 |
| 318 | 06/05/2019 | 13:46:38 | 0.460 |
| 319 | 06/05/2019 | 13:47:38 | 0.464 |
| 320 | 06/05/2019 | 13:48:38 | 0.453 |
| 321 | 06/05/2019 | 13:49:38 | 0.449 |
| 322 | 06/05/2019 | 13:50:38 | 0.441 |
| 323 | 06/05/2019 | 13:51:38 | 0.418 |
| 324 | 06/05/2019 | 13:52:38 | 0.404 |
| 325 | 06/05/2019 | 13:53:38 | 0.387 |
| 326 | 06/05/2019 | 13:54:38 | 0.356 |
| 327 | 06/05/2019 | 13:55:38 | 0.355 |
| 328 | 06/05/2019 | 13:56:38 | 0.338 |
| 329 | 06/05/2019 | 13:57:38 | 0.305 |
| 330 | 06/05/2019 | 13:58:38 | 0.298 |
| 331 | 06/05/2019 | 13:59:38 | 0.295 |
| 332 | 06/05/2019 | 14:00:38 | 0.296 |
| 333 | 06/05/2019 | 14:01:38 | 0.286 |
| 334 | 06/05/2019 | 14:02:38 | 0.261 |
| 335 | 06/05/2019 | 14:03:38 | 0.249 |
| 336 | 06/05/2019 | 14:04:38 | 0.241 |
| 337 | 06/05/2019 | 14:05:38 | 0.236 |
| 338 | 06/05/2019 | 14:06:38 | 0.215 |
| 339 | 06/05/2019 | 14:07:38 | 0.197 |
| 340 | 06/05/2019 | 14:08:38 | 0.187 |
| 341 | 06/05/2019 | 14:09:38 | 0.183 |
| 342 | 06/05/2019 | 14:10:38 | 0.182 |
| 343 | 06/05/2019 | 14:11:38 | 0.176 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 344 | 06/05/2019 | 14:12:38 | 0.160 |
| 345 | 06/05/2019 | 14:13:38 | 0.154 |
| 346 | 06/05/2019 | 14:14:38 | 0.153 |
| 347 | 06/05/2019 | 14:15:38 | 0.153 |
| 348 | 06/05/2019 | 14:16:38 | 0.147 |
| 349 | 06/05/2019 | 14:17:38 | 0.139 |
| 350 | 06/05/2019 | 14:18:38 | 0.135 |
| 351 | 06/05/2019 | 14:19:38 | 0.124 |
| 352 | 06/05/2019 | 14:20:38 | 0.123 |
| 353 | 06/05/2019 | 14:21:38 | 0.118 |
| 354 | 06/05/2019 | 14:22:38 | 0.111 |
| 355 | 06/05/2019 | 14:23:38 | 0.108 |
| 356 | 06/05/2019 | 14:24:38 | 0.106 |
| 357 | 06/05/2019 | 14:25:38 | 0.109 |
| 358 | 06/05/2019 | 14:26:38 | 0.095 |
| 359 | 06/05/2019 | 14:27:38 | 0.090 |
| 360 | 06/05/2019 | 14:28:38 | 0.088 |
| 361 | 06/05/2019 | 14:29:38 | 0.095 |
| 362 | 06/05/2019 | 14:30:38 | 0.087 |
| 363 | 06/05/2019 | 14:31:38 | 0.084 |
| 364 | 06/05/2019 | 14:32:38 | 0.081 |
| 365 | 06/05/2019 | 14:33:38 | 0.081 |
| 366 | 06/05/2019 | 14:34:38 | 0.077 |
| 367 | 06/05/2019 | 14:35:38 | 0.071 |
| 368 | 06/05/2019 | 14:36:38 | 0.073 |
| 369 | 06/05/2019 | 14:37:38 | 0.075 |
| 370 | 06/05/2019 | 14:38:38 | 0.068 |
| 371 | 06/05/2019 | 14:39:38 | 0.069 |
| 372 | 06/05/2019 | 14:40:38 | 0.066 |

# Test 002

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/23/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:04:28 |
| | | Stop Date | 01/23/2019 |
| | | Stop Time | 14:49:28 |
| | | Total Time | 0:06:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.015 mg/m^3 |
| Max | 0.029 mg/m^3 |
| Max Date | 01/23/2019 |
| Max Time | 08:19:28 |
| Min | 0.009 mg/m^3 |
| Min Date | 01/23/2019 |
| Min Time | 13:49:28 |
| TWA (8 hr) | 0.013 |
| TWA Start Date | 01/23/2019 |
| TWA Start Time | 08:04:28 |
| TWA End Time | 14:49:28 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/23/2019 | 08:19:28 | 0.029 |
| 2 | 01/23/2019 | 08:34:28 | 0.025 |
| 3 | 01/23/2019 | 08:49:28 | 0.022 |
| 4 | 01/23/2019 | 09:04:28 | 0.020 |
| 5 | 01/23/2019 | 09:19:28 | 0.018 |
| 6 | 01/23/2019 | 09:34:28 | 0.017 |
| 7 | 01/23/2019 | 09:49:28 | 0.017 |
| 8 | 01/23/2019 | 10:04:28 | 0.017 |
| 9 | 01/23/2019 | 10:19:28 | 0.017 |
| 10 | 01/23/2019 | 10:34:28 | 0.017 |
| 11 | 01/23/2019 | 10:49:28 | 0.016 |
| 12 | 01/23/2019 | 11:04:28 | 0.016 |
| 13 | 01/23/2019 | 11:19:28 | 0.016 |
| 14 | 01/23/2019 | 11:34:28 | 0.016 |
| 15 | 01/23/2019 | 11:49:28 | 0.015 |
| 16 | 01/23/2019 | 12:04:28 | 0.014 |
| 17 | 01/23/2019 | 12:19:28 | 0.013 |
| 18 | 01/23/2019 | 12:34:28 | 0.012 |
| 19 | 01/23/2019 | 12:49:28 | 0.011 |
| 20 | 01/23/2019 | 13:04:28 | 0.011 |
| 21 | 01/23/2019 | 13:19:28 | 0.010 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 01/23/2019 | 13:34:28 | 0.010 |
| 23 | 01/23/2019 | 13:49:28 | 0.009 |
| 24 | 01/23/2019 | 14:04:28 | 0.009 |
| 25 | 01/23/2019 | 14:19:28 | 0.009 |
| 26 | 01/23/2019 | 14:34:28 | 0.009 |
| 27 | 01/23/2019 | 14:49:28 | 0.010 |

# Test 003

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/24/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:26:19 |
| | | Stop Date | 01/24/2019 |
| | | Stop Time | 15:11:19 |
| | | Total Time | 0:06:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.035 mg/m^3 |
| Max | 0.073 mg/m^3 |
| Max Date | 01/24/2019 |
| Max Time | 14:11:19 |
| Min | 0.022 mg/m^3 |
| Min Date | 01/24/2019 |
| Min Time | 15:11:19 |
| TWA (8 hr) | 0.029 |
| TWA Start Date | 01/24/2019 |
| TWA Start Time | 08:26:19 |
| TWA End Time | 15:11:19 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/24/2019 | 08:41:19 | 0.039 |
| 2 | 01/24/2019 | 08:56:19 | 0.039 |
| 3 | 01/24/2019 | 09:11:19 | 0.038 |
| 4 | 01/24/2019 | 09:26:19 | 0.037 |
| 5 | 01/24/2019 | 09:41:19 | 0.039 |
| 6 | 01/24/2019 | 09:56:19 | 0.037 |
| 7 | 01/24/2019 | 10:11:19 | 0.032 |
| 8 | 01/24/2019 | 10:26:19 | 0.032 |
| 9 | 01/24/2019 | 10:41:19 | 0.036 |
| 10 | 01/24/2019 | 10:56:19 | 0.036 |
| 11 | 01/24/2019 | 11:11:19 | 0.034 |
| 12 | 01/24/2019 | 11:26:19 | 0.034 |
| 13 | 01/24/2019 | 11:41:19 | 0.033 |
| 14 | 01/24/2019 | 11:56:19 | 0.032 |
| 15 | 01/24/2019 | 12:11:19 | 0.031 |
| 16 | 01/24/2019 | 12:26:19 | 0.033 |
| 17 | 01/24/2019 | 12:41:19 | 0.036 |
| 18 | 01/24/2019 | 12:56:19 | 0.036 |
| 19 | 01/24/2019 | 13:11:19 | 0.033 |
| 20 | 01/24/2019 | 13:26:19 | 0.033 |
| 21 | 01/24/2019 | 13:41:19 | 0.032 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 01/24/2019 | 13:56:19 | 0.029 |
| 23 | 01/24/2019 | 14:11:19 | 0.073 |
| 24 | 01/24/2019 | 14:26:19 | 0.037 |
| 25 | 01/24/2019 | 14:41:19 | 0.023 |
| 26 | 01/24/2019 | 14:56:19 | 0.025 |
| 27 | 01/24/2019 | 15:11:19 | 0.022 |

# Test 004

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/25/2019 |
| Instrument S/N | 8530142512 | Start Time | 09:22:57 |
| | | Stop Date | 01/25/2019 |
| | | Stop Time | 11:07:57 |
| | | Total Time | 0:01:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.030 mg/m^3 |
| Max | 0.033 mg/m^3 |
| Max Date | 01/25/2019 |
| Max Time | 09:37:57 |
| Min | 0.026 mg/m^3 |
| Min Date | 01/25/2019 |
| Min Time | 11:07:57 |
| TWA (8 hr) | 0.006 |
| TWA Start Date | 01/25/2019 |
| TWA Start Time | 09:22:57 |
| TWA End Time | 11:07:57 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/25/2019 | 09:37:57 | 0.033 |
| 2 | 01/25/2019 | 09:52:57 | 0.032 |
| 3 | 01/25/2019 | 10:07:57 | 0.030 |
| 4 | 01/25/2019 | 10:22:57 | 0.030 |
| 5 | 01/25/2019 | 10:37:57 | 0.029 |
| 6 | 01/25/2019 | 10:52:57 | 0.027 |
| 7 | 01/25/2019 | 11:07:57 | 0.026 |

# Test 005

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/28/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:30:50 |
| | | Stop Date | 01/28/2019 |
| | | Stop Time | 14:00:50 |
| | | Total Time | 0:05:30:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.029 mg/m^3 |
| Max | 0.077 mg/m^3 |
| Max Date | 01/28/2019 |
| Max Time | 08:45:50 |
| Min | 0.022 mg/m^3 |
| Min Date | 01/28/2019 |
| Min Time | 09:15:50 |
| TWA (8 hr) | 0.020 |
| TWA Start Date | 01/28/2019 |
| TWA Start Time | 08:30:50 |
| TWA End Time | 14:00:50 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/28/2019 | 08:45:50 | 0.077 |
| 2 | 01/28/2019 | 09:00:50 | 0.027 |
| 3 | 01/28/2019 | 09:15:50 | 0.022 |
| 4 | 01/28/2019 | 09:30:50 | 0.022 |
| 5 | 01/28/2019 | 09:45:50 | 0.023 |
| 6 | 01/28/2019 | 10:00:50 | 0.025 |
| 7 | 01/28/2019 | 10:15:50 | 0.025 |
| 8 | 01/28/2019 | 10:30:50 | 0.025 |
| 9 | 01/28/2019 | 10:45:50 | 0.024 |
| 10 | 01/28/2019 | 11:00:50 | 0.025 |
| 11 | 01/28/2019 | 11:15:50 | 0.026 |
| 12 | 01/28/2019 | 11:30:50 | 0.029 |
| 13 | 01/28/2019 | 11:45:50 | 0.029 |
| 14 | 01/28/2019 | 12:00:50 | 0.031 |
| 15 | 01/28/2019 | 12:15:50 | 0.032 |
| 16 | 01/28/2019 | 12:30:50 | 0.033 |
| 17 | 01/28/2019 | 12:45:50 | 0.034 |
| 18 | 01/28/2019 | 13:00:50 | 0.030 |
| 19 | 01/28/2019 | 13:15:50 | 0.025 |
| 20 | 01/28/2019 | 13:30:50 | 0.024 |
| 21 | 01/28/2019 | 13:45:50 | 0.023 |
| 22 | 01/28/2019 | 14:00:50 | 0.023 |

# Test 006

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 02/26/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:40:49 |
| | | Stop Date | 02/26/2019 |
| | | Stop Time | 15:55:49 |
| | | Total Time | 0:07:15:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.023 mg/m^3 |
| Max | 0.044 mg/m^3 |
| Max Date | 02/26/2019 |
| Max Time | 11:25:49 |
| Min | 0.017 mg/m^3 |
| Min Date | 02/26/2019 |
| Min Time | 10:10:49 |
| TWA (8 hr) | 0.021 |
| TWA Start Date | 02/26/2019 |
| TWA Start Time | 08:40:49 |
| TWA End Time | 15:55:49 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 02/26/2019 | 08:55:49 | 0.032 |
| 2 | 02/26/2019 | 09:10:49 | 0.024 |
| 3 | 02/26/2019 | 09:25:49 | 0.022 |
| 4 | 02/26/2019 | 09:40:49 | 0.019 |
| 5 | 02/26/2019 | 09:55:49 | 0.019 |
| 6 | 02/26/2019 | 10:10:49 | 0.017 |
| 7 | 02/26/2019 | 10:25:49 | 0.026 |
| 8 | 02/26/2019 | 10:40:49 | 0.027 |
| 9 | 02/26/2019 | 10:55:49 | 0.038 |
| 10 | 02/26/2019 | 11:10:49 | 0.028 |
| 11 | 02/26/2019 | 11:25:49 | 0.044 |
| 12 | 02/26/2019 | 11:40:49 | 0.030 |
| 13 | 02/26/2019 | 11:55:49 | 0.029 |
| 14 | 02/26/2019 | 12:10:49 | 0.019 |
| 15 | 02/26/2019 | 12:25:49 | 0.018 |
| 16 | 02/26/2019 | 12:40:49 | 0.025 |
| 17 | 02/26/2019 | 12:55:49 | 0.018 |
| 18 | 02/26/2019 | 13:10:49 | 0.019 |
| 19 | 02/26/2019 | 13:25:49 | 0.021 |
| 20 | 02/26/2019 | 13:40:49 | 0.020 |
| 21 | 02/26/2019 | 13:55:49 | 0.019 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 02/26/2019 | 14:10:49 | 0.019 |
| 23 | 02/26/2019 | 14:25:49 | 0.019 |
| 24 | 02/26/2019 | 14:40:49 | 0.019 |
| 25 | 02/26/2019 | 14:55:49 | 0.020 |
| 26 | 02/26/2019 | 15:10:49 | 0.021 |
| 27 | 02/26/2019 | 15:25:49 | 0.019 |
| 28 | 02/26/2019 | 15:40:49 | 0.018 |
| 29 | 02/26/2019 | 15:55:49 | 0.019 |

# Test 001

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/23/2019 |
| Instrument S/N | 8530151809 | Start Time | 08:11:58 |
| | | Stop Date | 01/23/2019 |
| | | Stop Time | 14:56:58 |
| | | Total Time | 0:06:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.023 mg/m^3 |
| Max | 0.040 mg/m^3 |
| Max Date | 01/23/2019 |
| Max Time | 08:26:58 |
| Min | 0.014 mg/m^3 |
| Min Date | 01/23/2019 |
| Min Time | 14:26:58 |
| TWA (8 hr) | 0.019 |
| TWA Start Date | 01/23/2019 |
| TWA Start Time | 08:11:58 |
| TWA End Time | 14:56:58 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/23/2019 | 08:26:58 | 0.040 |
| 2 | 01/23/2019 | 08:41:58 | 0.030 |
| 3 | 01/23/2019 | 08:56:58 | 0.028 |
| 4 | 01/23/2019 | 09:11:58 | 0.025 |
| 5 | 01/23/2019 | 09:26:58 | 0.026 |
| 6 | 01/23/2019 | 09:41:58 | 0.032 |
| 7 | 01/23/2019 | 09:56:58 | 0.028 |
| 8 | 01/23/2019 | 10:11:58 | 0.022 |
| 9 | 01/23/2019 | 10:26:58 | 0.023 |
| 10 | 01/23/2019 | 10:41:58 | 0.023 |
| 11 | 01/23/2019 | 10:56:58 | 0.023 |
| 12 | 01/23/2019 | 11:11:58 | 0.023 |
| 13 | 01/23/2019 | 11:26:58 | 0.026 |
| 14 | 01/23/2019 | 11:41:58 | 0.027 |
| 15 | 01/23/2019 | 11:56:58 | 0.026 |
| 16 | 01/23/2019 | 12:11:58 | 0.024 |
| 17 | 01/23/2019 | 12:26:58 | 0.024 |
| 18 | 01/23/2019 | 12:41:58 | 0.022 |
| 19 | 01/23/2019 | 12:56:58 | 0.018 |
| 20 | 01/23/2019 | 13:11:58 | 0.017 |
| 21 | 01/23/2019 | 13:26:58 | 0.016 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 01/23/2019 | 13:41:58 | 0.015 |
| 23 | 01/23/2019 | 13:56:58 | 0.015 |
| 24 | 01/23/2019 | 14:11:58 | 0.015 |
| 25 | 01/23/2019 | 14:26:58 | 0.014 |
| 26 | 01/23/2019 | 14:41:58 | 0.015 |
| 27 | 01/23/2019 | 14:56:58 | 0.015 |

# Test 003

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/24/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:26:19 |
| | | Stop Date | 01/24/2019 |
| | | Stop Time | 15:11:19 |
| | | Total Time | 0:06:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.035 mg/m^3 |
| Max | 0.073 mg/m^3 |
| Max Date | 01/24/2019 |
| Max Time | 14:11:19 |
| Min | 0.022 mg/m^3 |
| Min Date | 01/24/2019 |
| Min Time | 15:11:19 |
| TWA (8 hr) | 0.029 |
| TWA Start Date | 01/24/2019 |
| TWA Start Time | 08:26:19 |
| TWA End Time | 15:11:19 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/24/2019 | 08:41:19 | 0.039 |
| 2 | 01/24/2019 | 08:56:19 | 0.039 |
| 3 | 01/24/2019 | 09:11:19 | 0.038 |
| 4 | 01/24/2019 | 09:26:19 | 0.037 |
| 5 | 01/24/2019 | 09:41:19 | 0.039 |
| 6 | 01/24/2019 | 09:56:19 | 0.037 |
| 7 | 01/24/2019 | 10:11:19 | 0.032 |
| 8 | 01/24/2019 | 10:26:19 | 0.032 |
| 9 | 01/24/2019 | 10:41:19 | 0.036 |
| 10 | 01/24/2019 | 10:56:19 | 0.036 |
| 11 | 01/24/2019 | 11:11:19 | 0.034 |
| 12 | 01/24/2019 | 11:26:19 | 0.034 |
| 13 | 01/24/2019 | 11:41:19 | 0.033 |
| 14 | 01/24/2019 | 11:56:19 | 0.032 |
| 15 | 01/24/2019 | 12:11:19 | 0.031 |
| 16 | 01/24/2019 | 12:26:19 | 0.033 |
| 17 | 01/24/2019 | 12:41:19 | 0.036 |
| 18 | 01/24/2019 | 12:56:19 | 0.036 |
| 19 | 01/24/2019 | 13:11:19 | 0.033 |
| 20 | 01/24/2019 | 13:26:19 | 0.033 |
| 21 | 01/24/2019 | 13:41:19 | 0.032 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 01/24/2019 | 13:56:19 | 0.029 |
| 23 | 01/24/2019 | 14:11:19 | 0.073 |
| 24 | 01/24/2019 | 14:26:19 | 0.037 |
| 25 | 01/24/2019 | 14:41:19 | 0.023 |
| 26 | 01/24/2019 | 14:56:19 | 0.025 |
| 27 | 01/24/2019 | 15:11:19 | 0.022 |

# Test 004

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/25/2019 |
| Instrument S/N | 8530142512 | Start Time | 09:22:57 |
| | | Stop Date | 01/25/2019 |
| | | Stop Time | 11:07:57 |
| | | Total Time | 0:01:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.030 mg/m^3 |
| Max | 0.033 mg/m^3 |
| Max Date | 01/25/2019 |
| Max Time | 09:37:57 |
| Min | 0.026 mg/m^3 |
| Min Date | 01/25/2019 |
| Min Time | 11:07:57 |
| TWA (8 hr) | 0.006 |
| TWA Start Date | 01/25/2019 |
| TWA Start Time | 09:22:57 |
| TWA End Time | 11:07:57 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/25/2019 | 09:37:57 | 0.033 |
| 2 | 01/25/2019 | 09:52:57 | 0.032 |
| 3 | 01/25/2019 | 10:07:57 | 0.030 |
| 4 | 01/25/2019 | 10:22:57 | 0.030 |
| 5 | 01/25/2019 | 10:37:57 | 0.029 |
| 6 | 01/25/2019 | 10:52:57 | 0.027 |
| 7 | 01/25/2019 | 11:07:57 | 0.026 |

# Test 005

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/28/2019 |
| Instrument S/N | 8530142512 | Start Time | 08:30:50 |
| | | Stop Date | 01/28/2019 |
| | | Stop Time | 14:00:50 |
| | | Total Time | 0:05:30:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.029 mg/m^3 |
| Max | 0.077 mg/m^3 |
| Max Date | 01/28/2019 |
| Max Time | 08:45:50 |
| Min | 0.022 mg/m^3 |
| Min Date | 01/28/2019 |
| Min Time | 09:15:50 |
| TWA (8 hr) | 0.020 |
| TWA Start Date | 01/28/2019 |
| TWA Start Time | 08:30:50 |
| TWA End Time | 14:00:50 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/28/2019 | 08:45:50 | 0.077 |
| 2 | 01/28/2019 | 09:00:50 | 0.027 |
| 3 | 01/28/2019 | 09:15:50 | 0.022 |
| 4 | 01/28/2019 | 09:30:50 | 0.022 |
| 5 | 01/28/2019 | 09:45:50 | 0.023 |
| 6 | 01/28/2019 | 10:00:50 | 0.025 |
| 7 | 01/28/2019 | 10:15:50 | 0.025 |
| 8 | 01/28/2019 | 10:30:50 | 0.025 |
| 9 | 01/28/2019 | 10:45:50 | 0.024 |
| 10 | 01/28/2019 | 11:00:50 | 0.025 |
| 11 | 01/28/2019 | 11:15:50 | 0.026 |
| 12 | 01/28/2019 | 11:30:50 | 0.029 |
| 13 | 01/28/2019 | 11:45:50 | 0.029 |
| 14 | 01/28/2019 | 12:00:50 | 0.031 |
| 15 | 01/28/2019 | 12:15:50 | 0.032 |
| 16 | 01/28/2019 | 12:30:50 | 0.033 |
| 17 | 01/28/2019 | 12:45:50 | 0.034 |
| 18 | 01/28/2019 | 13:00:50 | 0.030 |
| 19 | 01/28/2019 | 13:15:50 | 0.025 |
| 20 | 01/28/2019 | 13:30:50 | 0.024 |
| 21 | 01/28/2019 | 13:45:50 | 0.023 |
| 22 | 01/28/2019 | 14:00:50 | 0.023 |

# Test 005

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 02/26/2019 |
| Instrument S/N | 8530151809 | Start Time | 08:43:59 |
| | | Stop Date | 02/26/2019 |
| | | Stop Time | 15:58:59 |
| | | Total Time | 0:07:15:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.047 mg/m^3 |
| Max | 0.382 mg/m^3 |
| Max Date | 02/26/2019 |
| Max Time | 08:58:59 |
| Min | 0.018 mg/m^3 |
| Min Date | 02/26/2019 |
| Min Time | 12:28:59 |
| TWA (8 hr) | 0.043 |
| TWA Start Date | 02/26/2019 |
| TWA Start Time | 08:43:59 |
| TWA End Time | 15:58:59 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 02/26/2019 | 08:58:59 | 0.382 |
| 2 | 02/26/2019 | 09:13:59 | 0.167 |
| 3 | 02/26/2019 | 09:28:59 | 0.063 |
| 4 | 02/26/2019 | 09:43:59 | 0.051 |
| 5 | 02/26/2019 | 09:58:59 | 0.065 |
| 6 | 02/26/2019 | 10:13:59 | 0.073 |
| 7 | 02/26/2019 | 10:28:59 | 0.078 |
| 8 | 02/26/2019 | 10:43:59 | 0.019 |
| 9 | 02/26/2019 | 10:58:59 | 0.019 |
| 10 | 02/26/2019 | 11:13:59 | 0.021 |
| 11 | 02/26/2019 | 11:28:59 | 0.042 |
| 12 | 02/26/2019 | 11:43:59 | 0.028 |
| 13 | 02/26/2019 | 11:58:59 | 0.028 |
| 14 | 02/26/2019 | 12:13:59 | 0.019 |
| 15 | 02/26/2019 | 12:28:59 | 0.018 |
| 16 | 02/26/2019 | 12:43:59 | 0.020 |
| 17 | 02/26/2019 | 12:58:59 | 0.018 |
| 18 | 02/26/2019 | 13:13:59 | 0.019 |
| 19 | 02/26/2019 | 13:28:59 | 0.023 |
| 20 | 02/26/2019 | 13:43:59 | 0.021 |
| 21 | 02/26/2019 | 13:58:59 | 0.023 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 02/26/2019 | 14:13:59 | 0.021 |
| 23 | 02/26/2019 | 14:28:59 | 0.020 |
| 24 | 02/26/2019 | 14:43:59 | 0.021 |
| 25 | 02/26/2019 | 14:58:59 | 0.030 |
| 26 | 02/26/2019 | 15:13:59 | 0.021 |
| 27 | 02/26/2019 | 15:28:59 | 0.022 |
| 28 | 02/26/2019 | 15:43:59 | 0.020 |
| 29 | 02/26/2019 | 15:58:59 | 0.021 |

| | |
|---|---|
| Instrument Name | DustTrak II |
| Model Number | 8530 |
| Serial Number | 8530132129 |
| Firmware Version | 3.7 |
| Calibration Date | 9/21/2017 |
| Test Name | MANUAL_001 |
| Test Start Time | 8:46:42 AM |
| Test Start Date | 10/8/2019 |
| Test Length [D:H:M] | 0:02:00 |
| Test Interval [M:S] | 15:00 |
| Mass Average [mg/m3] | 0.013 |
| Mass Minimum [mg/m3] | 0.008 |
| Mass Maximum [mg/m3] | 0.023 |
| Mass TWA [mg/m3] | 0.003 |
| Photometric User Cal | 0.84 |
| Flow User Cal | 0 |
| Errors | |
| Number of Samples | 8 |

| Elapsed Time [s] | Mass [mg/m3] | Alarms | Errors |
|---|---|---|---|
| 900 | 0.012 | | |
| 1800 | 0.011 | | |
| 2700 | 0.013 | | |
| 3600 | 0.023 | | |
| 4500 | 0.011 | | |
| 5400 | 0.014 | | |
| 6300 | 0.013 | | |
| 7200 | 0.008 | | |

| | |
|---|---|
| Instrument Name | DustTrak II |
| Model Number | 8530 |
| Serial Number | 8530181802 |
| Firmware Version | 3.7 |
| Calibration Date | 5/1/2018 |
| Test Name | MANUAL_001 |
| Test Start Time | 8:50:27 AM |
| Test Start Date | 10/8/2019 |
| Test Length [D:H:M] | 0:01:45 |
| Test Interval [M:S] | 15:00 |
| Mass Average [mg/m3] | 0.019 |
| Mass Minimum [mg/m3] | 0.013 |
| Mass Maximum [mg/m3] | 0.034 |
| Mass TWA [mg/m3] | 0.004 |
| Photometric User Cal | 0.86 |
| Flow User Cal | 0 |
| Errors | |
| Number of Samples | 7 |

| Elapsed Time [s] | Mass [mg/m3] | Alarms | Errors |
|---|---|---|---|
| 900 | 0.034 | | |
| 1800 | 0.021 | | |
| 2700 | 0.016 | | |
| 3600 | 0.013 | | |
| 4500 | 0.013 | | |
| 5400 | 0.019 | | |
| 6300 | 0.014 | | |

# Test 027

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 11/22/2021 |
| Instrument S/N | 8530153013 | Start Time | 09:55:57 |
| | | Stop Date | 11/22/2021 |
| | | Stop Time | 17:40:57 |
| | | Total Time | 0:07:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.012 mg/m^3 |
| Max | 0.021 mg/m^3 |
| Max Date | 11/22/2021 |
| Max Time | 16:25:57 |
| Min | 0.010 mg/m^3 |
| Min Date | 11/22/2021 |
| Min Time | 11:25:57 |
| TWA (8 hr) | 0.011 |
| TWA Start Date | 11/22/2021 |
| TWA Start Time | 09:55:57 |
| TWA End Time | 17:40:57 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 11/22/2021 | 10:10:57 | 0.011 |
| 2 | 11/22/2021 | 10:25:57 | 0.011 |
| 3 | 11/22/2021 | 10:40:57 | 0.011 |
| 4 | 11/22/2021 | 10:55:57 | 0.011 |
| 5 | 11/22/2021 | 11:10:57 | 0.011 |
| 6 | 11/22/2021 | 11:25:57 | 0.010 |
| 7 | 11/22/2021 | 11:40:57 | 0.011 |
| 8 | 11/22/2021 | 11:55:57 | 0.010 |
| 9 | 11/22/2021 | 12:10:57 | 0.010 |
| 10 | 11/22/2021 | 12:25:57 | 0.010 |
| 11 | 11/22/2021 | 12:40:57 | 0.010 |
| 12 | 11/22/2021 | 12:55:57 | 0.010 |
| 13 | 11/22/2021 | 13:10:57 | 0.011 |
| 14 | 11/22/2021 | 13:25:57 | 0.011 |
| 15 | 11/22/2021 | 13:40:57 | 0.011 |
| 16 | 11/22/2021 | 13:55:57 | 0.011 |
| 17 | 11/22/2021 | 14:10:57 | 0.011 |
| 18 | 11/22/2021 | 14:25:57 | 0.011 |
| 19 | 11/22/2021 | 14:40:57 | 0.011 |
| 20 | 11/22/2021 | 14:55:57 | 0.011 |
| 21 | 11/22/2021 | 15:10:57 | 0.011 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 11/22/2021 | 15:25:57 | 0.011 |
| 23 | 11/22/2021 | 15:40:57 | 0.012 |
| 24 | 11/22/2021 | 15:55:57 | 0.012 |
| 25 | 11/22/2021 | 16:10:57 | 0.014 |
| 26 | 11/22/2021 | 16:25:57 | 0.021 |
| 27 | 11/22/2021 | 16:40:57 | 0.015 |
| 28 | 11/22/2021 | 16:55:57 | 0.013 |
| 29 | 11/22/2021 | 17:10:57 | 0.012 |
| 30 | 11/22/2021 | 17:25:57 | 0.012 |
| 31 | 11/22/2021 | 17:40:57 | 0.012 |

# Test 027

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 11/22/2021 |
| Instrument S/N | 8530133103 | Start Time | 09:53:17 |
| | | Stop Date | 11/22/2021 |
| | | Stop Time | 17:38:17 |
| | | Total Time | 0:07:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | -0.003 mg/m^3 |
| Max | -0.001 mg/m^3 |
| Max Date | 11/22/2021 |
| Max Time | 12:23:17 |
| Min | -0.004 mg/m^3 |
| Min Date | 11/22/2021 |
| Min Time | 10:53:17 |
| TWA (8 hr) | -0.003 |
| TWA Start Date | 11/22/2021 |
| TWA Start Time | 09:53:17 |
| TWA End Time | 17:38:17 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 11/22/2021 | 10:08:17 | -0.002 |
| 2 | 11/22/2021 | 10:23:17 | -0.003 |
| 3 | 11/22/2021 | 10:38:17 | -0.003 |
| 4 | 11/22/2021 | 10:53:17 | -0.004 |
| 5 | 11/22/2021 | 11:08:17 | -0.003 |
| 6 | 11/22/2021 | 11:23:17 | -0.003 |
| 7 | 11/22/2021 | 11:38:17 | -0.003 |
| 8 | 11/22/2021 | 11:53:17 | -0.003 |
| 9 | 11/22/2021 | 12:08:17 | -0.002 |
| 10 | 11/22/2021 | 12:23:17 | -0.001 |
| 11 | 11/22/2021 | 12:38:17 | -0.002 |
| 12 | 11/22/2021 | 12:53:17 | -0.002 |
| 13 | 11/22/2021 | 13:08:17 | -0.002 |
| 14 | 11/22/2021 | 13:23:17 | -0.002 |
| 15 | 11/22/2021 | 13:38:17 | -0.002 |
| 16 | 11/22/2021 | 13:53:17 | -0.002 |
| 17 | 11/22/2021 | 14:08:17 | -0.002 |
| 18 | 11/22/2021 | 14:23:17 | -0.002 |
| 19 | 11/22/2021 | 14:38:17 | -0.003 |
| 20 | 11/22/2021 | 14:53:17 | -0.003 |
| 21 | 11/22/2021 | 15:08:17 | -0.004 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 22 | 11/22/2021 | 15:23:17 | -0.004 |
| 23 | 11/22/2021 | 15:38:17 | -0.004 |
| 24 | 11/22/2021 | 15:53:17 | -0.003 |
| 25 | 11/22/2021 | 16:08:17 | -0.003 |
| 26 | 11/22/2021 | 16:23:17 | -0.003 |
| 27 | 11/22/2021 | 16:38:17 | -0.003 |
| 28 | 11/22/2021 | 16:53:17 | -0.003 |
| 29 | 11/22/2021 | 17:08:17 | -0.003 |
| 30 | 11/22/2021 | 17:23:17 | -0.003 |
| 31 | 11/22/2021 | 17:38:17 | -0.003 |

# Test 028

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 11/23/2021 |
| Instrument S/N | 8530153013 | Start Time | 09:17:12 |
| | | Stop Date | 11/23/2021 |
| | | Stop Time | 15:02:12 |
| | | Total Time | 0:05:45:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.013 mg/m^3 |
| Max | 0.023 mg/m^3 |
| Max Date | 11/23/2021 |
| Max Time | 09:32:12 |
| Min | 0.010 mg/m^3 |
| Min Date | 11/23/2021 |
| Min Time | 13:47:12 |
| TWA (8 hr) | 0.009 |
| TWA Start Date | 11/23/2021 |
| TWA Start Time | 09:17:12 |
| TWA End Time | 15:02:12 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 11/23/2021 | 09:32:12 | 0.023 |
| 2 | 11/23/2021 | 09:47:12 | 0.020 |
| 3 | 11/23/2021 | 10:02:12 | 0.015 |
| 4 | 11/23/2021 | 10:17:12 | 0.015 |
| 5 | 11/23/2021 | 10:32:12 | 0.016 |
| 6 | 11/23/2021 | 10:47:12 | 0.014 |
| 7 | 11/23/2021 | 11:02:12 | 0.013 |
| 8 | 11/23/2021 | 11:17:12 | 0.011 |
| 9 | 11/23/2021 | 11:32:12 | 0.012 |
| 10 | 11/23/2021 | 11:47:12 | 0.013 |
| 11 | 11/23/2021 | 12:02:12 | 0.013 |
| 12 | 11/23/2021 | 12:17:12 | 0.012 |
| 13 | 11/23/2021 | 12:32:12 | 0.012 |
| 14 | 11/23/2021 | 12:47:12 | 0.012 |
| 15 | 11/23/2021 | 13:02:12 | 0.011 |
| 16 | 11/23/2021 | 13:17:12 | 0.011 |
| 17 | 11/23/2021 | 13:32:12 | 0.011 |
| 18 | 11/23/2021 | 13:47:12 | 0.010 |
| 19 | 11/23/2021 | 14:02:12 | 0.010 |
| 20 | 11/23/2021 | 14:17:12 | 0.011 |
| 21 | 11/23/2021 | 14:32:12 | 0.011 |
| 22 | 11/23/2021 | 14:47:12 | 0.013 |
| 23 | 11/23/2021 | 15:02:12 | 0.012 |

# Test 028

| Instrument | |
|---|---|
| Model | DustTrak II |
| Instrument S/N | 8530133103 |
| | |
| | |
| | |
| | |

| Data Properties | |
|---|---|
| Start Date | 11/23/2021 |
| Start Time | 09:13:07 |
| Stop Date | 11/23/2021 |
| Stop Time | 14:43:07 |
| Total Time | 0:05:30:00 |
| Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.005 mg/m^3 |
| Max | 0.010 mg/m^3 |
| Max Date | 11/23/2021 |
| Max Time | 10:13:07 |
| Min | 0.000 mg/m^3 |
| Min Date | 11/23/2021 |
| Min Time | 14:13:07 |
| TWA (8 hr) | 0.003 |
| TWA Start Date | 11/23/2021 |
| TWA Start Time | 09:13:07 |
| TWA End Time | 14:43:07 |

Test Data

| Data Point | Date | Time | AEROSOL mg/m^3 |
|---|---|---|---|
| 1 | 11/23/2021 | 09:28:07 | 0.008 |
| 2 | 11/23/2021 | 09:43:07 | 0.008 |
| 3 | 11/23/2021 | 09:58:07 | 0.008 |
| 4 | 11/23/2021 | 10:13:07 | 0.010 |
| 5 | 11/23/2021 | 10:28:07 | 0.007 |
| 6 | 11/23/2021 | 10:43:07 | 0.004 |
| 7 | 11/23/2021 | 10:58:07 | 0.004 |
| 8 | 11/23/2021 | 11:13:07 | 0.003 |
| 9 | 11/23/2021 | 11:28:07 | 0.003 |
| 10 | 11/23/2021 | 11:43:07 | 0.008 |
| 11 | 11/23/2021 | 11:58:07 | 0.005 |
| 12 | 11/23/2021 | 12:13:07 | 0.004 |
| 13 | 11/23/2021 | 12:28:07 | 0.005 |
| 14 | 11/23/2021 | 12:43:07 | 0.004 |
| 15 | 11/23/2021 | 12:58:07 | 0.004 |
| 16 | 11/23/2021 | 13:13:07 | 0.003 |
| 17 | 11/23/2021 | 13:28:07 | 0.001 |
| 18 | 11/23/2021 | 13:43:07 | 0.001 |
| 19 | 11/23/2021 | 13:58:07 | 0.001 |
| 20 | 11/23/2021 | 14:13:07 | 0.000 |
| 21 | 11/23/2021 | 14:28:07 | 0.010 |
| 22 | 11/23/2021 | 14:43:07 | 0.007 |

# Test 029

| Instrument | |
|---|---|
| Model | DustTrak II |
| Instrument S/N | 8530153013 |
| | |
| | |
| | |
| | |

| Data Properties | |
|---|---|
| Start Date | 11/24/2021 |
| Start Time | 09:15:32 |
| Stop Date | 11/24/2021 |
| Stop Time | 14:45:32 |
| Total Time | 0:05:30:00 |
| Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.016 mg/m^3 |
| Max | 0.021 mg/m^3 |
| Max Date | 11/24/2021 |
| Max Time | 10:45:32 |
| Min | 0.011 mg/m^3 |
| Min Date | 11/24/2021 |
| Min Time | 14:15:32 |
| TWA (8 hr) | 0.011 |
| TWA Start Date | 11/24/2021 |
| TWA Start Time | 09:15:32 |
| TWA End Time | 14:45:32 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 11/24/2021 | 09:30:32 | 0.020 |
| 2 | 11/24/2021 | 09:45:32 | 0.020 |
| 3 | 11/24/2021 | 10:00:32 | 0.020 |
| 4 | 11/24/2021 | 10:15:32 | 0.020 |
| 5 | 11/24/2021 | 10:30:32 | 0.020 |
| 6 | 11/24/2021 | 10:45:32 | 0.021 |
| 7 | 11/24/2021 | 11:00:32 | 0.020 |
| 8 | 11/24/2021 | 11:15:32 | 0.019 |
| 9 | 11/24/2021 | 11:30:32 | 0.019 |
| 10 | 11/24/2021 | 11:45:32 | 0.018 |
| 11 | 11/24/2021 | 12:00:32 | 0.017 |
| 12 | 11/24/2021 | 12:15:32 | 0.016 |
| 13 | 11/24/2021 | 12:30:32 | 0.015 |
| 14 | 11/24/2021 | 12:45:32 | 0.015 |
| 15 | 11/24/2021 | 13:00:32 | 0.014 |
| 16 | 11/24/2021 | 13:15:32 | 0.013 |
| 17 | 11/24/2021 | 13:30:32 | 0.013 |
| 18 | 11/24/2021 | 13:45:32 | 0.013 |
| 19 | 11/24/2021 | 14:00:32 | 0.012 |
| 20 | 11/24/2021 | 14:15:32 | 0.011 |
| 21 | 11/24/2021 | 14:30:32 | 0.013 |
| 22 | 11/24/2021 | 14:45:32 | 0.011 |

# Test 029

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 11/24/2021 |
| Instrument S/N | 8530133103 | Start Time | 09:12:37 |
| | | Stop Date | 11/24/2021 |
| | | Stop Time | 14:42:37 |
| | | Total Time | 0:05:30:00 |
| | | Logging Interval | 900 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.007 mg/m^3 |
| Max | 0.010 mg/m^3 |
| Max Date | 11/24/2021 |
| Max Time | 09:27:37 |
| Min | 0.005 mg/m^3 |
| Min Date | 11/24/2021 |
| Min Time | 10:27:37 |
| TWA (8 hr) | 0.005 |
| TWA Start Date | 11/24/2021 |
| TWA Start Time | 09:12:37 |
| TWA End Time | 14:42:37 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 11/24/2021 | 09:27:37 | 0.010 |
| 2 | 11/24/2021 | 09:42:37 | 0.009 |
| 3 | 11/24/2021 | 09:57:37 | 0.008 |
| 4 | 11/24/2021 | 10:12:37 | 0.006 |
| 5 | 11/24/2021 | 10:27:37 | 0.005 |
| 6 | 11/24/2021 | 10:42:37 | 0.006 |
| 7 | 11/24/2021 | 10:57:37 | 0.006 |
| 8 | 11/24/2021 | 11:12:37 | 0.006 |
| 9 | 11/24/2021 | 11:27:37 | 0.006 |
| 10 | 11/24/2021 | 11:42:37 | 0.007 |
| 11 | 11/24/2021 | 11:57:37 | 0.008 |
| 12 | 11/24/2021 | 12:12:37 | 0.007 |
| 13 | 11/24/2021 | 12:27:37 | 0.007 |
| 14 | 11/24/2021 | 12:42:37 | 0.007 |
| 15 | 11/24/2021 | 12:57:37 | 0.008 |
| 16 | 11/24/2021 | 13:12:37 | 0.009 |
| 17 | 11/24/2021 | 13:27:37 | 0.008 |
| 18 | 11/24/2021 | 13:42:37 | 0.008 |
| 19 | 11/24/2021 | 13:57:37 | 0.008 |
| 20 | 11/24/2021 | 14:12:37 | 0.008 |
| 21 | 11/24/2021 | 14:27:37 | 0.009 |
| 22 | 11/24/2021 | 14:42:37 | 0.007 |

# Appendix E – Daily/Monthly Reports

LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 1

**Date:** 5/29/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: Raining
Temperature: 55 °F
Wind: NNE at 7 mph
Humidity: 89 %

Contractor, Equipment & Personnel:

Time: 1630 hrs.
Weather: Sunny
Temperature: 60 °F
Wind: NW at 6 mph
Humidity: 86 %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | x | | | | | |
| Skid Steer | x | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | x | | | | | |
| K Mikel | x | | | | | |
| A Rose | | | | | | |

| Visitors: | Representing | Time |
|---|---|---|
| Phil | Doritex | 830 |

Complaints/Problems:

- electric line through excavation. Phil shut off power to line + middle portion of building. Phil spoke to Jim Daro & gave permission to remove line

- water stopped working - Phil came & fixed issue

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date**

5/29/19

***(Project No).***

**Re:**

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| Dust Trak | 038734<br>023577 | upwind<br>downwind | | | |
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**Comments:**

LaBella + LLC on Site @ 750. Checked boiler tanks in vault. Boilers appear to be filled with water + debris. North tank smell of rusty, moldy smell. Stacked tanks - south 52 inches of "product" - north 82 inches of product Tank size 94 inches. Phil on Site to discuss electric line - turned off line & gave permission to destroy line. Water stopped working - Phil came and resolved the issue. Sawed concrete floor. Broke up concrete on west portion of excavation. Moved concrete on west portion of site to south end of site.

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton

***(Name of rep)***

Site Representative

LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 2

**Date:** 5/30/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: Cloudy
Temperature: 60 °F
Wind: SW at 5 mph
Humidity: 87 %

Contractor, Equipment & Personnel:

Time: hrs.
Weather:
Temperature: °F
Wind: at mph
Humidity: %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | x | | | | | |
| Skid Steer | x | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | x | | | | | |
| K. Mikel | x | | | | | |
| A. Rose | x | | | | | |

Visitors: Representing Time

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date**

5/30/19

***(Project No).***

**Re:**

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| Dust Trak | 038734 | upwind | | | |
| | 023577 | downwind | | | |
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**Comments:**

S. Dalton + LLC on Site @ 800 Continued to break up + move concrete on west portion of excavation. Started to move soil on west portion of excavation. Encountered some "haz" soil (PID readings 60.5 - 110ppm) proximate old dry cleaner location (to the west).

Off Site @ 1700

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton

***(Name of rep)***

Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 3

**Date:** 5/31/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: Sunny
Temperature: 56 °F
Wind: WSW at 6 mph
Humidity: 74 %

Time: _____ hrs.
Weather: _____
Temperature: _____ °F
Wind: _____ at _____ mph
Humidity: _____ %

Contractor, Equipment & Personnel:

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | X | | | | | |
| Skid steer | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | X | | | | | |
| K. Mikel | X | | | | | |
| A. Rose | X | | | | | |

| Visitors: | Representing | Time |
|---|---|---|
| Phil | Doritex | 830 |

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** 5/31/19

**Re:** 218C1005 ***(Project No).***

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| Dust Trak | 038734 | upwind | | | |
| | 023577 | down wind | | | |
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**Comments:**

S. Dalton + LLC on Site @ 800. Continued to break up concrete in next section of excavation. S. Dalton off Site @ 1100

The work described above was incorporated into this project and was observed by:

Shannon Dalton
***(Name of rep)***
Site Representative

See Attached information Yes ☐ No ☐

LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 4

**Date:** 6-3-19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: Cloudy
Temperature: 46 °F
Wind: W at 13 mph
Humidity: 72 %

Time: _____ hrs.
Weather: _____
Temperature: _____ °F
Wind: _____ at _____ mph
Humidity: _____ %

Contractor, Equipment & Personnel:

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | X | | | | | |
| Skid Steer | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | X | | | | | |
| K Miller | X | | | | | |
| A Rose | X | | | | | |

| Visitors: | Representing | Time |
|---|---|---|
| Jim Doro | Doritex | 945 |

Complaints/Problems:
- water infiltrated excavation over the weekend

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. 4

**Date** 6-3-19

**Re:** ***(Project No).***

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| DUST TRAK | 038734 | upwind | | | |
| | 023577 | downwind | | | |
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**Comments:**

LaBella on site @ 800. Broke up concrete of next section. LaBella off site @ 1410

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

***(Name of rep)***
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 5

**Date:** 6-4-19

2180605 ***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: Sunny
Temperature: 54 °F
Wind: SW at 10 mph
Humidity: 51 %

Contractor, Equipment & Personnel:

Time: ____ hrs.
Weather: ____
Temperature: ____ °F
Wind: ____ at ____ mph
Humidity: ____ %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | x | | | | | |
| Skid Steer | x | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | x | | | | | |
| K. Mikol | x | | | | | |
| A. Rose | x | | | | | |

Visitors: Representing Time

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** _____

**Re:** _____ ***(Project No).***

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| DUST TRAIL | 023934 023577 | upwind downwind | | | |
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**Comments:**

On site @ 900a started to dig next section

LaBella off site @ 1600a

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton
***(Name of rep)***
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 6

**Date:** 6/15/17

218060 ***(Project No.)***

Re: 11075 Walden Avenue
Alden, New York

Time: 800 hrs.
Weather: sunny
Temperature: 60 °F
Wind: SW at 6 mph
Humidity: 87 %

Time: 1500 hrs.
Weather: showers
Temperature: 67 °F
Wind: SW at 10 mph
Humidity: 87 %

Contractor, Equipment & Personnel:

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Excavator | X | | | | | |
| skid steer | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S. Dalton | X | | | | | |
| K Mikel | X | | | | | |
| A Rose | X | | | | | |

Visitors: Representing Time

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** 6/5/19

**Re:** 2180605 *(Project No).*

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
| ~~Dust Trak~~ | 038734 | upwind | | | |
| | 023577 | downwind | | | |
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**Comments:**

on site @ 800. Excavated east portion of excavation. Collected samples

S. Dalton off site @ 1500.

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton
*(Name of rep)*
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 1

**Date:** 1/22/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New york

Time: 820 hrs.
Weather:
Temperature: 10 °F
Wind: SE at 6 mph
Humidity: 73 %

Contractor, Equipment & Personnel:

Time: hrs.
Weather:
Temperature: °F
Wind: at mph
Humidity: %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Geoprobe | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Shannon Dalton | X | | | | | |
| Armon Rose | X | | | | | |
| Dylon Hitchcock | X | | | | | |

Visitors: Representing Time

Complaints/Problems:
Utility mark out under snow

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** _____

**Re:** _____ *(Project No).*

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
|---|---|---|---|---|---|
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**Comments:**
LaBella on site at 830. laBella off site @ 1230.

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton
***(Name of rep)***
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 2

**Date:** 1/23/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New york

Time: 800 hrs.
Weather:
Temperature: 20 °F
Wind: W at 10 mph
Humidity: 55 %

Time: hrs.
Weather:
Temperature: °F
Wind: at mph
Humidity: %

Contractor, Equipment & Personnel:

Contractor A is: LaBella LLC
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 6610 GeoProbe | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S Dalton | X | | | | | |
| [redacted] | | | | | | |
| A Rose | X | | | | | |
| D Hitchcock | X | | | | | |
| Matt Pepe | X | | | | | |

Visitors: Representing Time

Complaints/Problems:
- 10ft Macrocore - only completed half of borings
- too saturated to install vapor probes

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** _____

**Re:** _____ ***(Project No).***

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**

LaBella on site @ 900. Advanced 5 soil borings, No vapor points installed due to saturation. LaBella off site @ 3

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

_____
***(Name of rep)***
Site Representative

T:\STANDARDFORMS\FIELD INSPECTION REPORT.DOC

LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 3

**Date:** 1/24/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New york

Time: 800 hrs.
Weather:
Temperature: 17 °F
Wind: W at 24 mph
Humidity: 63 %

Contractor, Equipment & Personnel:

Time: hrs.
Weather:
Temperature: °F
Wind: at mph
Humidity: %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Greenpace | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| S Dalton | X | | | | | |
| A Rose | X | | | | | |
| S Hitchcock | X | | | | | |

Visitors: Representing Time

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** _____

_____
***(Project No).***

**Re:**

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**

LaBella on site @ 800. LaBella advanced remaining soil borings. LaBella attempted to install permanent GW monitoring well via direct push however could not reach depth of 15 ft. LaBella to return 1/28/19 with auger to attempt to get to depth. LaBella off site @ 1400. S Dalton off site @ 1530

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

_____
***(Name of rep)***
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 4

**Date:** 11/28/19
***(Project No.)***

Re: 11075 Walden Avenue
Alden, New york

Time: 900 hrs.
Weather:
Temperature: 9 °F
Wind: E at 9 mph
Humidity: 63 %

Contractor, Equipment & Personnel:

Time: hrs.
Weather:
Temperature: °F
Wind: at mph
Humidity: %

Contractor A is: LaBella
Contractor B is:
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Geoprobe | X | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Shannon Dalton | X | | | | | |
| Dylan Hitchcock | X | | | | | |
| Armon Rose | X | | | | | |

Visitors: Representing: Time:

Complaints/Problems:
- could not reach 15 ft with geoprobe

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** _____

**Re:** _____ *(Project No).*

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**

S. Dalton on Site @ 800 LLC on Site @ 940. utilized geoprobe with augers to install permanent GW well on south side of Site to 13ft. Attempted to get another well on east side of Side install however encountered refusal @ 9ft. LaBella off site @ 130

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

_____
*(Name of rep)*
Site Representative

LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: _____

**Date:** 2/26/19
2180005 ***(Project No.)***

Re: 11075 Walden Avenue
Alden, New york

Time: 815 hrs.
Weather: _____
Temperature: 18 °F
Wind: NW at 8 mph
Humidity: 73 %

Time: _____ hrs.
Weather: _____
Temperature: _____ °F
Wind: _____ at _____ mph
Humidity: _____ %

Contractor, Equipment & Personnel:

Contractor A is: LaBella Associates
Contractor B is: Natures Way
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Truck Rig | | X | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Steve | | X | | | | |
| Tom | | X | | | | |
| Shannon Dalton | X | | | | | |

Visitors: Representing Time

Complaints/Problems:

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date** 2/26/19

**Re:** 2180605 *(Project No).*

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**
LaBella + Natures Way on site @ 815. Installed first well @ 935
Second well @ 11:55. Third well @ 1350. Fourth well @ 1440

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton
*(Name of rep)*
Site Representative

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LaBella
Powered by partnership.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: _____

**Date:** 2-27-19
21866.05 *(Project No.)*

Re: 11075 Walden Avenue
Alden, New york

Time: 806 hrs.
Weather: Snowing
Temperature: 15 °F
Wind: E at 12 mph
Humidity: _____ %

Time: _____ hrs.
Weather: _____
Temperature: _____ °F
Wind: _____ at _____ mph
Humidity: _____ %

Contractor, Equipment & Personnel:

Contractor A is: Natures Way
Contractor B is: LaBella
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| | | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Steve | x | | | | | |
| Tom | x | | | | | |
| S. Walton | | x | | | | |

Visitors: Representing: Time:

Complaints/Problems:

- west side of Site Building very swampy & wet - truck rig will get stuck Natures way wants to come back with different rig
- Site contact states Sprinkler head in building leaking out to west side of Building

LaBella
Powered by partnership.

# FIELD INSPECTION REPORT NO. _____

**Date**

2-27-19

**Re:** 180605 ***(Project No).***

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**
S. Dalton + Natures way on site @ 800 Natures way installing permanent wells road box covers

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Shannon Dalton
***(Name of rep)***
Site Representative

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LABELLA Associates, P.C.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 1

**Date:** 01/22/2020
***(Project No.)***

Re:

Time: 0800/0715 hrs.
Weather: Light overcast/Sun
Temperature: 15°F °F
Wind: Slight at ____ mph
Humidity: low %

Contractor, Equipment & Personnel:

Time: 1300 hrs.
Weather: Sun/overcast
Temperature: 25° °F
Wind: Slight at ____ mph
Humidity: low %

Contractor A is: Labella Environmental/H.Geoghegan
Contractor B is: Labella LLC/Matt Tracey
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Payloader | | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Matt Tracy<br>Heather Geoghegan | | | | | | |

Visitors: Representing Time
No Visitors

Complaints/Problems:
NA.

LABELLA Associates, P.C.

# FIELD INSPECTION REPORT NO. 1

**Date** 1/22/2020
***(Project No).***

**Re:**

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**

A total of 4 dump trucks of soil were removed from site.

A total of 3 dump trucks of concrete were removed from site.

Area was swept and verified remaining soil was properly covered.

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

Heather E Geoghegan
***(Name of rep)***
Site Representative

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LABELLA Associates, P.C.

**300 Pearl Street**
**Buffalo, New York 14202**
Phone: (716) 551-6281
Fax: (716) 551-6282

# FIELD INSPECTION REPORT NO: 1

**Date:** 2/3/20 2180605
***(Project No.)***

Re: ~~Covanta RTIF Field Program~~
~~Niagara Falls, New York~~
Doritex
11075 Walden Ave
Alden, NY

| | | |
|---|---|---|
| Time: | 0715 | hrs. |
| Weather: | 25°F - 40°F Sunny | |
| Temperature: | 25F - 40°F | °F |
| Wind: | 12mph at | mph |
| Humidity: | 77% | % |

Contractor, Equipment & Personnel:

Contractor A is: Heather Gieghegan. LaBella Buffalo
Contractor B is: Tyler Barber LaBella Tech. LLC
Contractor C is:
Contractor D is:
Contractor E is:
Contractor F is:

| | | |
|---|---|---|
| Time: | | hrs. |
| Weather: | | |
| Temperature: | | °F |
| Wind: | at | mph |
| Humidity: | | % |

| Equipment on-site | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Payloader | | x | | | | |
| 2 dusttraks | x | | | | | |
| 1 PID | x | | | | | |
| 1 Small generator | x | | | | | |

| Personnel | A | B | C | D | E | F |
|---|---|---|---|---|---|---|

Visitors: Representing Time
No visitors to site.

Complaints/Problems:
Off-site, 1500

LABELLA Associates, P.C.

# FIELD INSPECTION REPORT NO. 1

**Date** 2/3/2020

**Re:**

***(Project No).***
2180005

| Item No. | Item | Locations | Percent Complete | | Pay Req. No. |
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**Comments:**

A total of 4 trucks removed Haz soil from site.

Manifest 019443755 = ~35 tons

019443756 = ~35 tons

019443757 = ~4,000 lbs

019443758 = ~37 tons = 33,000 kg

The work described above was incorporated into this project and was observed by:

See Attached information Yes ☐ No ☐

*(Name of rep)*
Site Representative

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# INSPECTOR'S DAILY REPORT

**JOB TITLE:** 11075 Walden Avenue BCP
**DATE:** May 4, 2020
**LaBella JOB NO.:** 2180605
**Day of Week:** S **M** T W T F S
**CLIENT:** Walden Realty Limited Partnership
**I.R. No.:**
**CONTRACTOR:** Redox Tech LLC (Redox)
**Sheet No.** 1 **of** 1
**Contractor Hours Worked:**
**VISITORS:**
0800 **to** 1700
**Inspector Hours Worked:**
0800 **to** 1700
**PHOTOS TAKEN:**
**Weather:**
cloudy **to** cloudy
**Temperature:**
45ºF **to** 50ºF

**DESCRIPTION OF WORK PERFORMED AND INSPECTED**

Specify for each operation: Item No., Sub-Contractor (if any), Location and Nature of Work

LaBella marks out proposed injections per scope of work and discusses with Redox representatives, Keith Precious and Hayes. Redox mobilizes equipment while LaBella collects groundwater samples from MW-12 and MW-15. At MW-12 two well purges were feasible before the well became apparently dry. LaBella collected the sample prior to MW-12 becoming completely dry. At MW-15, three well purges were feasible. Thus, the sample was collected after the third purge. Samples from MW-12 and MW-15 were sent under standard Chain of Custody to Alpha Analytical. Subsequent sample collection, Community Air Monitoring Plan (CAMP) equipment was set up on the northwest and southeast portions of the Site. During monitoring well sample collection, Redox advanced two expendable points within the source area to determine conditions below ground surface (bgs). By the close of work, Redox completed two injection points within the source area with no issues. It should be noted, both injection points were advanced to 30 feet bgs and extracted upwards two feet per interval while simultaneously injecting ABC+.

| ITEM NO. | INTERIM QUANT. | FINAL QUANT. | EST. NO. | DESCRIPTION OF WORK |
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The above described work was incorporated into this project and was inspected by:

*Julia Torres* Reviewed by:

Inspector's Signature

☐ **REVERSE SIDE USED FOR ADDITIONAL REMARKS AND SKETCHES.**

Additionally, monitoring well depth to water from top of casing measurements were collected as follows:

- MW-10 → 5”
- MW-11 → 5”
- MW-13 → 12”
- MW-14 → 2”

DustTrak Data

Upwind → FA03004
Downwind → FA02342

Wind Direction: Northwest at 12 mph

| MANPOWER | | | | | | EQUIPMENT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **TYPE** | **LLC** | LaBella | EPA | | | **TYPE** | **LLC** | | | |
| **Foreman** | | | | | | | | | | |
| **Operators** | | | | | | | | | | |
| **Laborers** | | | | | | | | | | |
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# INSPECTOR'S DAILY REPORT

**JOB TITLE:** 11075 Walden Avenue BCP
**DATE:** May 5, 2020
**LaBella JOB NO.:** 2180605
**Day of Week:** S M **T** W T F S
**CLIENT:** Walden Realty Limited Partnership
**I.R. No.:**
**CONTRACTOR:** Redox Tech LLC (Redox)
**Sheet No.** 1 **of** 1
**Contractor Hours Worked:**
**VISITORS:** Lawn Mowing Company at 1630
0800 **to** 1700
**Inspector Hours Worked:**
0800 **to** 1700
**PHOTOS TAKEN:**
**Weather:**
Sunny **to** Sunny
**Temperature:**
50 ºF **to** 60 ºF

**DESCRIPTION OF WORK PERFORMED AND INSPECTED**

Specify for each operation: Item No., Sub-Contractor (if any), Location and Nature of Work

Redox prepares for injections in four injections points within the source area. Injections point will be advanced through the source area in a staggered fashion in order to prevent potential daylighting. Redox completes four injection points in the morning and three injection points in the afternoon. No issues were encountered.

CAMP equipment was placed on the north and south portions of the Site.

| ITEM NO. | INTERIM QUANT. | FINAL QUANT. | EST. NO. | DESCRIPTION OF WORK |
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The above described work was incorporated into this project and was inspected by:

*Julia Torres* Reviewed by:

Inspector's Signature

☐ **REVERSE SIDE USED FOR ADDITIONAL REMARKS AND SKETCHES.**

DustTrak Data

Upwind → FA03004
Downwind → FA02342

Wind Direction: Northwest at 12 mph

| MANPOWER | | | | | | EQUIPMENT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **TYPE** | **LLC** | LaBella | EPA | | | **TYPE** | **LLC** | | | |
| **Foreman** | | | | | | | | | | |
| **Operators** | | | | | | | | | | |
| **Laborers** | | | | | | | | | | |
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# INSPECTOR'S DAILY REPORT

**JOB TITLE:** 11075 Walden Avenue BCP
**DATE:** May 6, 2020
**LaBella JOB NO.:** 2180605
**Day of Week:** S M T **W** T F S
**CLIENT:** Walden Realty Limited Partnership
**I.R. No.:**
**CONTRACTOR:** Redox Tech LLC (Redox)
**Sheet No.** 1 **of** 1
**Contractor Hours Worked:**
**VISITORS:**
0800 **to** 1700
**Inspector Hours Worked:**
0800 **to** 1700
**PHOTOS TAKEN:** Daylighting observed downgradient of the source area
**Weather:**
cloudy **to** clear
**Temperature:**
50 ºF **to** 60 ºF

**DESCRIPTION OF WORK PERFORMED AND INSPECTED**

Specify for each operation: Item No., Sub-Contractor (if any), Location and Nature of Work

LaBella set up CAMP equipment on northeast and southwest portions of the Site. Redox preparing for injections by advancing expendable points in the source area and preparing ABC+ mixture. During prep LaBella observed apparent daylighting on the west exterior of the Site Building. Daylighting was brought the the attention of Keith (Redox). Subsequently, Redox purchased silt socks per LaBella's request in order to stop the daylighting mixture to migrate to the west adjacent property.

As additional injections points were established in the source area, daylight was apparently pooling on the west portion of Site proximate the source area. Daylighting did not exceed the west Site boundary.

Redox completed seven injection points within the source area over the course of the work day. No issues were encountered at injection points.

| ITEM NO. | INTERIM QUANT. | FINAL QUANT. | EST. NO. | DESCRIPTION OF WORK |
|---|---|---|---|---|
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The above described work was incorporated into this project and was inspected by:

*Julia Torres* Reviewed by:

Inspector's Signature

☐ **REVERSE SIDE USED FOR ADDITIONAL REMARKS AND SKETCHES.**

DustTrak Data

Upwind → FA03004
Downwind → FA02342

Wind Direction:  Northeast at 8 mph

| MANPOWER | | | | | | EQUIPMENT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **TYPE** | **LLC** | LaBella | EPA | | | **TYPE** | **LLC** | | | |
| **Foreman** | | | | | | | | | | |
| **Operators** | | | | | | | | | | |
| **Laborers** | | | | | | | | | | |
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# INSPECTOR'S DAILY REPORT

**JOB TITLE:** 11075 Walden Avenue BCP
**DATE:** May 7, 2020
**LaBella JOB NO.:** 2180605
**Day of Week:** S M T W T F S
**CLIENT:** Walden Realty Limited Partnership
**I.R. No.:**
**CONTRACTOR:** Redox Tech LLC (Redox)
**Sheet No.** 1 **of** 1
**Contractor Hours Worked:**
**VISITORS:**
0700 **to** 1630
**Inspector Hours Worked:**
0700 **to** 1630
**PHOTOS TAKEN:**
**Weather:**
sunny **to** sunny
**Temperature:**
45 ºF **to** 60 ºF

**DESCRIPTION OF WORK PERFORMED AND INSPECTED**

Specify for each operation: Item No., Sub-Contractor (if any), Location and Nature of Work

LaBella and Redox on Site 0700 to continue the completion of injections points within the remainder of the source area. Additionally, downgradient injection points will be advanced. Redox completed the final four injection points within the interior source area injections. No issues were encountered at injection points.

After Redox mobilized equipment outside, LaBella obtained interior, source area measurements of injections points. After interior, source area injection points were completed, Redox completed one exterior, source area injection points and four downgradient injection points. It should be noted, Redox reduced the total quantity of gallons injected per interval from 13 gallons to 10 gallons in an effort to reduce daylighting. In doing this, they did not compromise the effectiveness of the ABC+ solution; they removed three gallons of water subsequently making the solution more concentrated. This reduction in water added occurred at all downgradient injection points.

| ITEM NO. | INTERIM QUANT. | FINAL QUANT. | EST. NO. | DESCRIPTION OF WORK |
|---|---|---|---|---|
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The above described work was incorporated into this project and was inspected by:

*Julia Torres* Reviewed by:

Inspector's Signature

☐ **REVERSE SIDE USED FOR ADDITIONAL REMARKS AND SKETCHES.**

DustTrak Data

Upwind → FA03004
Downwind → FA02342

Wind Direction:  WSW

| MANPOWER | | | | | | EQUIPMENT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **TYPE** | **LLC** | LaBella | EPA | | | **TYPE** | **LLC** | | | |
| **Foreman** | | | | | | | | | | |
| **Operators** | | | | | | | | | | |
| **Laborers** | | | | | | | | | | |
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# INSPECTOR'S DAILY REPORT

**JOB TITLE:** 11075 Walden Avenue BCP
**DATE:** May 8, 2020
**LaBella JOB NO.:** 2180605
**Day of Week:** S M T W T **F** S
**CLIENT:** Walden Realty Limited Partnership
**I.R. No.:**
**CONTRACTOR:** Redox Tech LLC (Redox)
**Sheet No.** 1 **of** 1
**Contractor Hours Worked:**
**VISITORS:** Mr. Tony Lopes (NYSDEC)
0700 **to** 1930
**Inspector Hours Worked:**
0700 **to** 1930
**PHOTOS TAKEN:**
**Weather:**
Overcast **to** Clear
**Temperature:**
30 ºF **to** 36 ºF

**DESCRIPTION OF WORK PERFORMED AND INSPECTED**

Specify for each operation: Item No., Sub-Contractor (if any), Location and Nature of Work

Upon arrival at the Site, LaBella and Redox observed ABC+ has migrated to the west adjacent property. NYSDEC notified of migration and indicated they will stop by the Site to inspect. Dustraks are set up on the Site by LaBella and Redox prepares to continue with injection points in the remainder of the source area and downgradient. Upon NYSDEC arrival, several options were presented to mitigate additional ABC+ migration to the west adjacent property. It should be noted, zero valent iron (a component of ABC+) was not observed in the fluid that was daylighting. Groundwater was measured shallow, therefore some of the ABC+ was mixing with groundwater and readily migrating. The conclusion arrived at was to inject more concentrated ABC+ solution at deep intervals (>10 ft bgs). By the end of the work day, all source area and downgradient injection points were completed.

| ITEM NO. | INTERIM QUANT. | FINAL QUANT. | EST. NO. | DESCRIPTION OF WORK |
|---|---|---|---|---|
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The above described work was incorporated into this project and was inspected by:

*Julia Torres* Reviewed by:

Inspector's Signature

☐ **REVERSE SIDE USED FOR ADDITIONAL REMARKS AND SKETCHES.**

DustTrak Data

Upwind → FA03004
Downwind → FA02342

Wind Direction: Northeast

| MANPOWER | | | | | | EQUIPMENT | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **TYPE** | **LLC** | LaBella | EPA | | | **TYPE** | **LLC** | | | |
| **Foreman** | | | | | | | | | | |
| **Operators** | | | | | | | | | | |
| **Laborers** | | | | | | | | | | |
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Appendix F – Sub-Slab Depressurization System Construction Completion Report

June 17, 2020

Mr. Adam Zebrowski
Project Manager
LABELLA ASSOCIATES, D.P.C.
300 Pearl Street
Buffalo, NY 14202
*Via email: azebrowski@labellapc.com*

Re: 11075 Walden Ave., Alden, NY - Former Doritex Plant
BCP C915333
Sub-Slab Depressurization System Construction Completion Report

# CONSTRUCTION COMPLETION REPORT

## 1. OVERVIEW

This document presents a construction report, performance evaluation, O&M advice and certification of effectiveness for the Sub-Slab Depressurization system (SSDS) installed by *Mitigation Tech* at 11075 Walden Ave., Alden, NY as commissioned March 24, 2020.

Following an SSD construction plan (dated October 10, 2019) informed by a preliminary building assessment, a multi-suction point SSD System was installed using principles and equipment typically used for soil vapor intrusion mitigation in buildings. The primary objective of implementing this preemptive measure was to mitigate potential intrusion of vapors that could migrate into occupied space from beneath the slab. This would be achieved by maintaining a negative pressure of 0.004 water column inches (wci) below the slab relative to the air pressure above the slab. All work is in compliance with the NYS DOH document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006".

## 2. BUILDING ASSESSMENT AND SYSTEM CONSTRUCTION

Sub-slab air communication testing was performed October 3, 2019, 2019. The test procedure included drilling small diameter vacuum holes and large core borings into the concrete slab at likely suction point locations. We applied a known vacuum to potential suction points recorded differential pressure measurements (using a digital manometer) at various neighboring test points to estimate the expected radius of influence for typical suction points. We observed that 3.0 wci of vacuum at the suction points yielded at least -.004 wci pressure differential at radius of 40', each of (4) compass directions.

We performed volumetric airflow analysis to determine the number of suction points supportable by particular blower types. We drilled small diameter test holes at other representative areas of the slab to determine that sub-slab material was consistent. All test holes were repaired with urethane caulk (MSDS available) applied over a closed cell backer rod. The assessment concluded with an analysis of appropriate locations for fan, suction cavities and other SSD system components.

Mitigation tech performed and supervised all aspects of construction. Both for physical protection and minimum impact on active use areas, riser pipes were surface mounted on columns or interior walls; horizontal pipe was installed as close to ceiling and established raceways as possible. Work was coordinated with client and tenants to minimize disturbance of work areas, relocate obstacles and control dust. Special effort was furnished to work around large structural spans and floor reconstruction Vacuum and airflow measurements were performed continuously during construction to ensure integrity of design. Various fans were evaluated in place and in combination to determine the most effective configuration. At commissioning, all components inspected for condition and proper operation. Premises left in clean condition.

Key on site personnel were Aaron Hurysz and Robert Beck, both highly experienced soil vapor intrusion technicians. Weather conditions were favorable. Daily tailgate meetings were held to review the daily work objectives and relevant aspects of the Health & Safety Plan. No accidents or incidents occurred during the construction.

## 3. SUB-SLAB DEPRESSURIZATION SYSTEM GENERAL DESCRIPTION

3.1. Introduction. The SSDS is maintaining sub-slab vacuum at all subject areas. The system consists of (6) roof or sidewall mounted fans connected by manifold piping to (21) vapor extraction points, groupings shown below. The system was constructed using principles and equipment typically used for radon mitigation in buildings as detailed in the United States Environmental Protection Agency (EPA) EPA 402-K-03-007 (May 2006), and the final NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The SSDS was installed as permanent, integral addition to the structure. The key components of the SSDS are described below and are shown on an as-built diagram labeled "Sub-Slab System Diagram."

3.2. Suction Points. The suction points consists of a 5" core boring into the slab through which 1- 2 cubic feet of sub-slab material has been removed. Mechanically suspended 3" SCH 40 PVC pipe has been inserted into the boring and sealed with urethane sealant.

3.3. Riser Piping. The riser piping consists of 3" SCH 40 PVC pipe that follows a route from the extraction point to a 4" trunk line, then to exterior mounted vacuum fans. Weatherproof flashing or sealant has been applied to all penetrations. Vent pipes were installed at a pitch that ensures that any rainwater or condensation within the pipes drains downward into the ground beneath the slab. Piping is independently supported, and not supported from existing building mechanical systems. Piping is labeled at each level as "Sub-Slab Vent". Piping is connected using manufacturer's approved methods. Positioning at or within structural steel columns generally protects riser piping. Horizontal pipe grid is suspended directly to structure and positioned no lower than existing mechanical improvements.

3.4. Exhaust Fans. Exhaust fans have been field selected for specific performance properties based on the requirements of pressure field extension testing. The specific fan model used for all systems is the FANTECH model Rn4-EC, rated power at 172 watts continuous operation, 500 max CFN, 4.4 max wci. Each fan has an exterior disconnect switch. Fans are powered from several panels with labeled breakers. All fans are mounted with rubber Fernco couplings, for simplified replacement. No air intakes are present within 20' of the exhaust points. These fans have an onboard potentiometer allow reduction of fan performance and operation using less electrical current. Owner may wish to consider future adjustment.

3.5. Instrumentation and Control. There is no centralized instrumentation or control for the SSDS. Fans can be switched either from the adjacent positioned disconnect or at the marked breaker. Each exhaust fan system is equipped with, or scheduled to be equipped with once new floor plan is implemented, an audible low vacuum indicator and a vacuum indicator mounted in a visible location on a riser pipe per the attached schematic. The indicator consists of an oil filled U-tube style manometer. The indicator can be inspected by observing the level of colored fluid. The indicator is designed primarily to give a simple visual check that vacuum is present in the riser pipe, specifically by observation that the fluid levels on each side of the indicator are not even. Indicator is marked at level observed on March 24, 2020.

3.7. Sealing measures. Polyurethane sealants have been applied to control joints, floor cracks and slab penetrations to enhance the barrier between sub-slab and ambient air and improve the efficiency of the SSD System. Smoke testing has been employed to guide sealing operations. Materials used include Sika Sikaflex 1c-SLself-leveling joint sealant and Sika 1a Sealant.

3.6. Monitoring Points. Monitoring Points are indicated on the system diagram. These consist of ¾" drill points through the slab into which a digital micromanometer probe can be inserted. They are semi-permanently closed with backer and urethane sealant. These were established to aid in original system design and confirmatory testing, and in some cases are difficult to access. The primary future use would be in recertification of system effectiveness.

3.7 System Configuration (see attached schematic for component locations)

- **Office fan system** (1) FANTECH model Rn4EC, roof mount; w/ (5) suction points
- **East Central fan system** (1) FANTECH model Rn4EC, roof mount; w/ (3) suction points
- **West Central fan system** (1) FANTECH model Rn4EC, roof mount; w/ (4) suction points, including (1) suction point in west discrete footer section
- **North Rear Section fan system** (1) FANTECH model Rn4EC, roof mount; w/ (3) suction points
- **Central Rear Section fan system** (1) FANTECH model Rn4EC, roof mount; w/ (3) suction points
- **South Rear Section fan system** (1) FANTECH model Rn4EC, roof mount; w/ (3) suction points
- Suction points as follows: approximately 1-2 cu. ft. excavated material in sub-slab, with urethane seal connection via 3" Schedule 40 PVC pipe to overhead pipe grid; horizontal pipe at highest practicable height, permanently attached directly to structure
- Proportioning valves or plates for suction risers where required
- All exhaust points minimum 20' from any air intakes
- Exterior switch and *Sealtight* and/or MC conduit from fan housings to electrical panel
- (6) U-tube style vacuum indicators, (1) per system, on vertical pipe run
- (6) RADONAWAY Checkpoint 2 audible indicators, (1) per system, scheduled
- (20) vacuum monitoring points, semi-permanently sealed with urethane caulk per included diagram
- Urethane sealant at floor joints, accessible cracks and penetrations in vicinity of suction points
- Horizontal pipe near ceiling, with metal bracketing direct to structure, sloped as required
- At completion, perform backdraft testing, measure pressure differentials and document; label components and provide system description and operational instructions
- Consult with client to develop operation, maintenance and periodic inspection plan
- Two year warranty; labor and installed components

3.8. PERFORMANCE EVALUATION

Measurement date – March 24, 2020- In order to verify system effectiveness and as a performance evaluation, (20) test points were established at various distances from the suction cavities suitable to verify that the sub-slab of the entire subject area was being depressurized at least to the objective. See schematic for point locations. Point locations were selected to represent farthest distance from suction points so that vacuum influence closer to the suction point can be reasonable inferred.

| TP # | Value (negative wci) | Location |
|---|---|---|
| 1 | .313 | Office NW |
| 2 | .009 | Office N |
| 3 | .019 | Office N interior |
| 4 | .045 | Office NE |
| 5 | .318 | Office E |
| 6 | .110 | Office SE |
| 7 | .885 | Office S |
| 8 | .133 | Office SSW |
| 9 | .010 | Office SW |
| 10 | .041 | Central Section N |
| 11 | .141 | Central Section Center |
| 12 | .145 | Central Section S |
| 13 | .029 | South Section, NW perimeter |
| 14 | .040 | South Section, NE perimeter |
| 15 | .548 | South Section, Central NW |
| 16 | .485 | South Section, Central NE |
| 17 | .635 | South Section, Central SW |
| 18 | .410 | South Section, Central SE |
| 19 | .030 | South Section, SW perimeter |
| 20 | .021 | South Section, SE perimeter |

## 4. SUB-SLAB DEPRESSURIZATION SYSTEM OPERATION

4.1. The fans should be kept in continuous operation. New York State Soil Vapor Intrusion Guidance (2006) specifies that operation, maintenance and monitoring of the SSD system should be included as part of site management. Until subsurface remediation efforts eventually address VOCs in soil and/or groundwater to acceptable levels (i.e. SSD operation no longer required) operation of the SSD system should continue. At that point, the vapor mitigation system may be shut down and/or removed and O&M requirements would cease.

4.2. Reset. Fans restart automatically in event of power loss.

4.3. In the event of unusual fan noise, audible alarm activation, failure to start, physical damage, or repeated circuit breaker trip, turn fan off and call for service. MITIGATION TECH – 800-637-9228

4.4. Regularly inspect fan gauge to verify that value, indicated by a mark on the wall at the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.

4.5. Normal system operation requires unchanged structural conditions. Report any changes in structure, HVAC systems, slab conditions, etc., so that the change can be evaluated for impact on the SSD System. For

4.6. Ensure that a periodic inspection is performed

## 5. SUB-SLAB DEPRESSURIZATION SYSTEM PERFORMANCE MONITORING

### 5.1. Monthly Monitoring

5.1.1. Inspect fan vacuum indicator to verify that value, indicated by a mark on the wall at the gauge, has not changed significantly from the position of the mark. Gauge is inspected by observing the level of colored fluid.

5.1.2. Record the observed measurement for each fan vacuum indicator on form labeled "SSD System Vacuum Gauge Record". Store all forms in the facility maintenance office.

5.1.3. Inspect visible components of SSD system for degraded condition.

5.1.4. For reporting, call MITIGATION TECH at 800-637-9228

### 5.2. Annual Inspection

5.2.1. Conduct a visual inspection of the complete System (e.g., vent fans, piping, warning devices, labeling)

5.2.2. Inspect all components for condition and proper operation;

5.2.3. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYS DOH VI Guidance (i.e.; with the systems running, use smoke sticks to check for leaks through concrete cracks, floor joints and at the suction points; any leaks will be resealed until smoke is no longer observed flowing through the opening).

5.2.4. Inspect the exhaust or discharge point of each exhaust fan to verify that no air intakes have been located within 10 feet

5.2.5 Interview appropriate building occupants seeking comments and observations regarding the operation of the System

5.2.6 Check to see that the circuit breakers controlling the circuits on which the soil vapor vent fans operate are labeled "Soil Vapor System"

### 5.3. Annual Certification of Effectiveness

5.3.1. Upon completion of the tasks outlined in section 5.2 above, the installing contractors should submit a Certification of Effectiveness document, stating that the SSD system continues to perform to the purpose for which it was designed.

## 6. SUB-SLAB DEPRESSURIZATION SYSTEM MAINTENANCE

### 6.1. Routine Maintenance

6.1.1. Perform procedures as specified in sections 5.2 and 5.3

6.1.2. There are no routine component replacement procedures; Replace components upon findings of damage or failure.

**6.2. Non-Routine Maintenance**

6.2.1. Non-routine maintenance may also be appropriate during the operation of the mitigation system. Examples of such situations include the following:

6.2.2. It is determined through inspection or notification by others that the vacuum gauge indicates the mitigation system is not operating properly

6.2.3. the mitigation system becomes damaged

6.2.4. the building has undergone renovations that may reduce the effectiveness of the mitigation system.

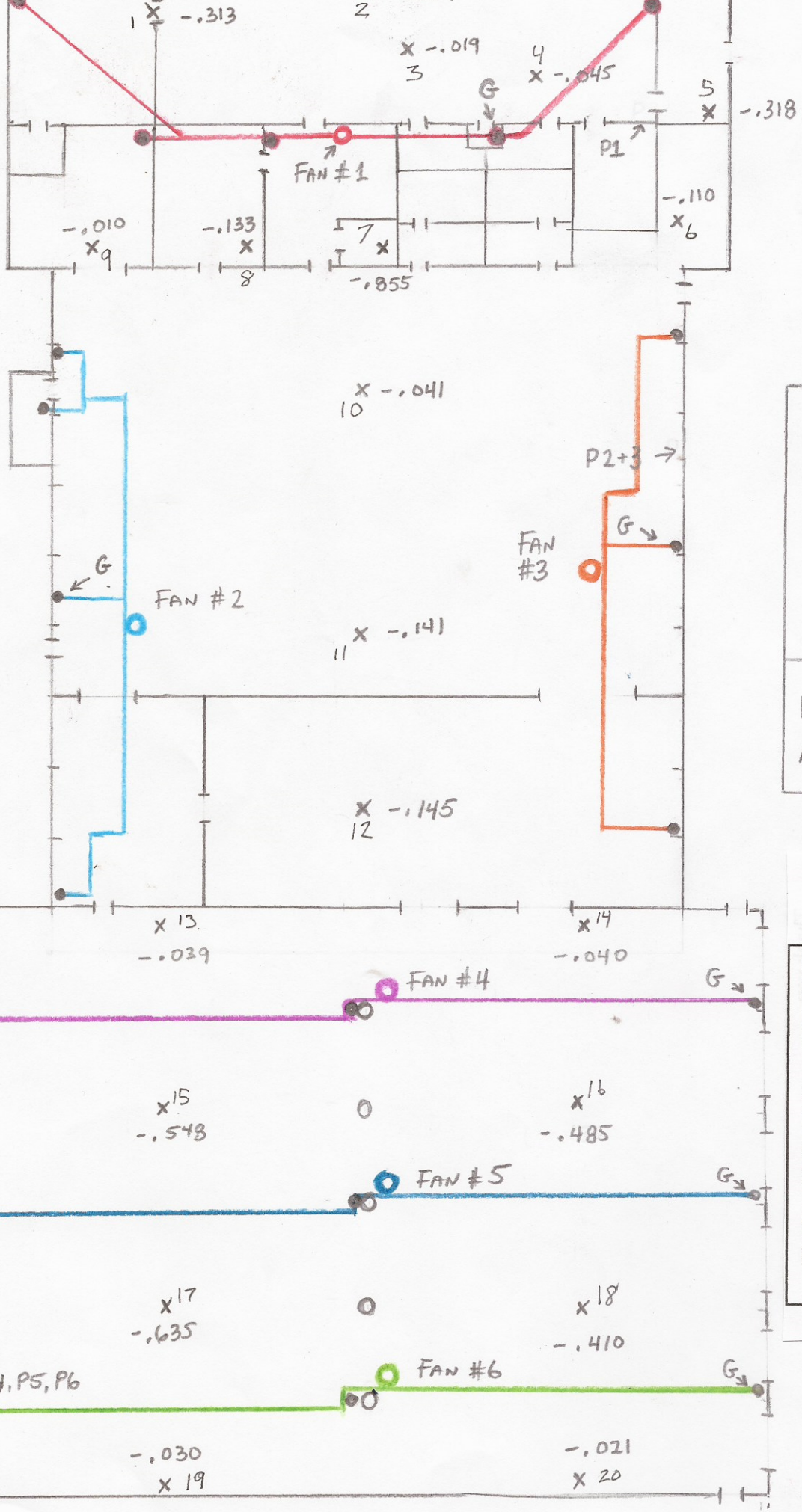
**Certification**

I hereby certify that the SSD Systems at this location are installed properly and are effective in achieving the above stated objective.

End of Report

Thank you

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722




O - FAN LOCATION

● - SUCTION POINT

X - TEST LOCATION

P - FAN POWER LOC.

G - GAUGE LOCATION

11075 WALDEN AVE,
ALDEN N.Y. 14004

# SUB-SLAB DEPRESSURIZATION SYSTEM DIAGRAM

Installed by:
Mitigation Tech
55 Shumway Rd.,
Brockport, NY 14420

Date of Completion:
March 24, 2020

# Rn 4EC-4 Inline Radon Fan

Item Number: 99923
Variant: 120V 1~ 60Hz

- Use for **High Suction, High Airflow** applications
- Equipped with EC Motor
- Speed Control Included
- LDVI™ Couplings Included
- Airtight Housing Guaranteed
- Large Electrical Box
- Zero Leakage



Active radon mitigation systems employ specialized fans to exhaust radioactive radon gas from underneath building structures via a sealed pipe system. These systems are designed to remove radon gas before it migrates into the building envelope.
As the most powerful model in Fantech's family of Radon Mitigation fans, the **Rn4EC** can create 4.3" of suction while moving 20 cfm, as well as move 490 cfm when operating at only 0.5" of suction. High air flow, high suction.
**Rn4EC** features an electronically commutated (EC) motor. Inherently efficient and operationally stable at full and reduced speeds, the EC motor arms the radon professional with installation methods not previously practical. Integrated control system allows for "dialling in" the fan speed necessary to achieve either the required sub-slab depressurization or required system air flow rate. For demand-controlled systems, the potentiometer can be removed from the wiring terminal block to accommodate an externally-provided 0-10Vdc speed command.
The **Rn 4-4EC** is constructed with UL certified, UV protected polycarbonate material. The inlet and outlet pieces of the fan's housing are vibration welded for 100% leak-proof housing construction. Totally enclosed motors are designed with extra moisture protection in various radon applications.
Performance certified by **HVI**; safety certified by **UL**.

## Technical parameters

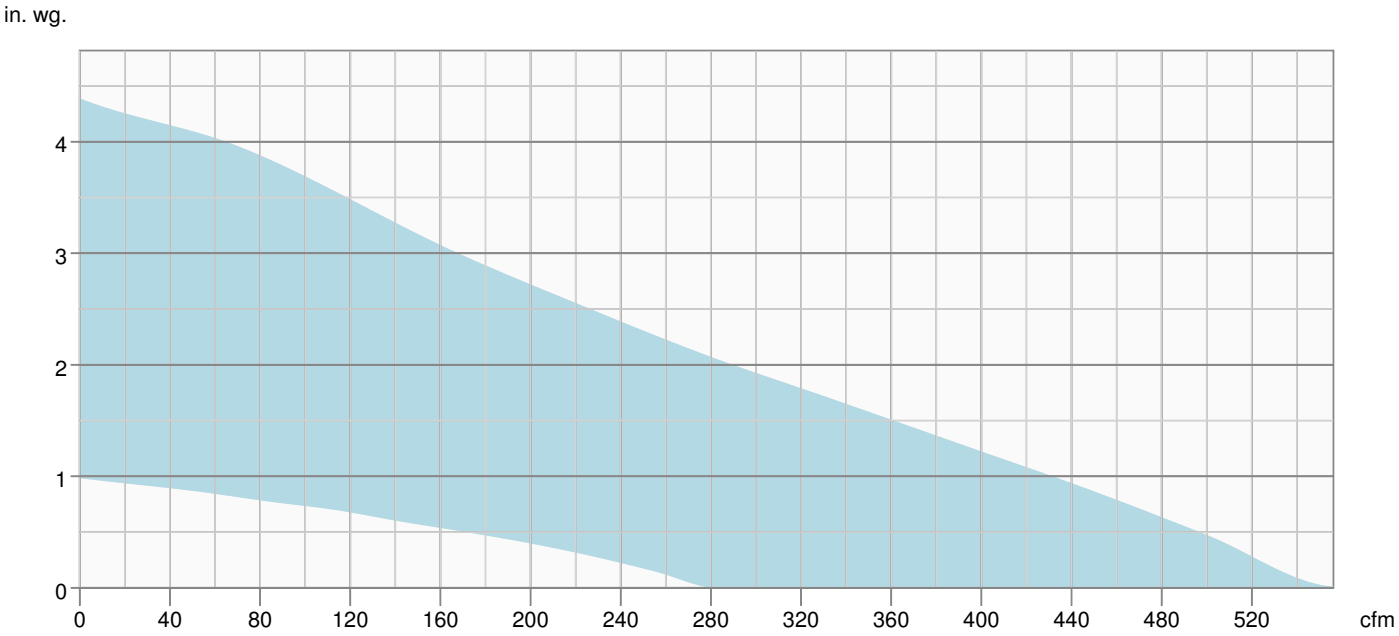
| **Norminal data** | | |
|---|---|---|
| Voltage (nominal) | 120 | V |
| Frequency | 60 | Hz |
| Phase(s) | 1~ | |
| Input power | 169 | W |
| Input current | 2.1 | A |

| | | |
|---|---|---|
| Impeller speed | 4,084 | r.p.m. |
| Air flow | max 555.0 | cfm |

| **Protection/Classification** | | |
|---|---|---|
| Enclosure class, motor | IP54 | |
| Insulation class | B | |
| Certificate | HVI, cULus | |

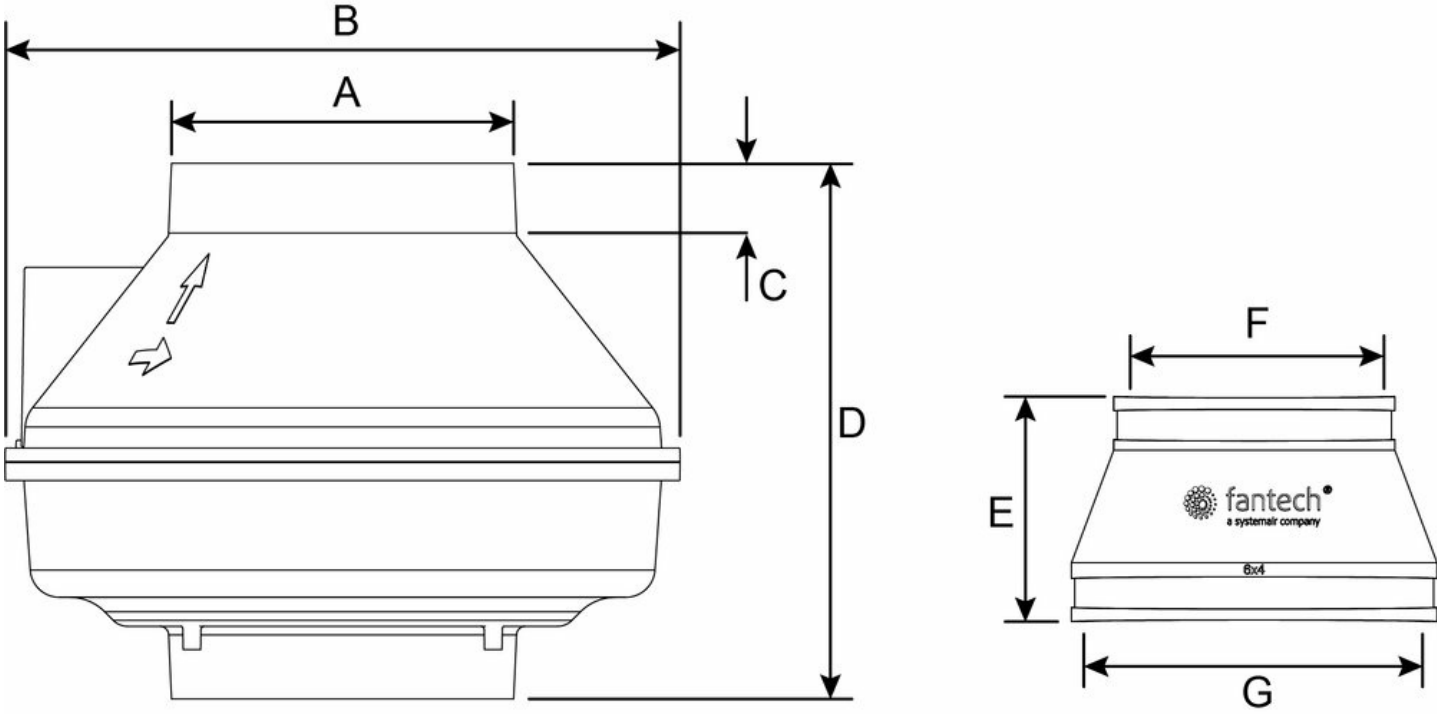
| **Dimensions and weights** | | |
|---|---|---|
| Weight | 7.3 | lb |

## Performance curve




| Hydraulic data | |
|---|---|
| Required air flow | - |
| Required static pressure | - |
| Working air flow | - |
| Working static pressure | - |
| Air density | 0.075 lb/ft³ |
| Power | - |
| Fan control - RPM | - |
| Current | - |
| SFP | - |
| Control voltage | - |
| Supply voltage | - |

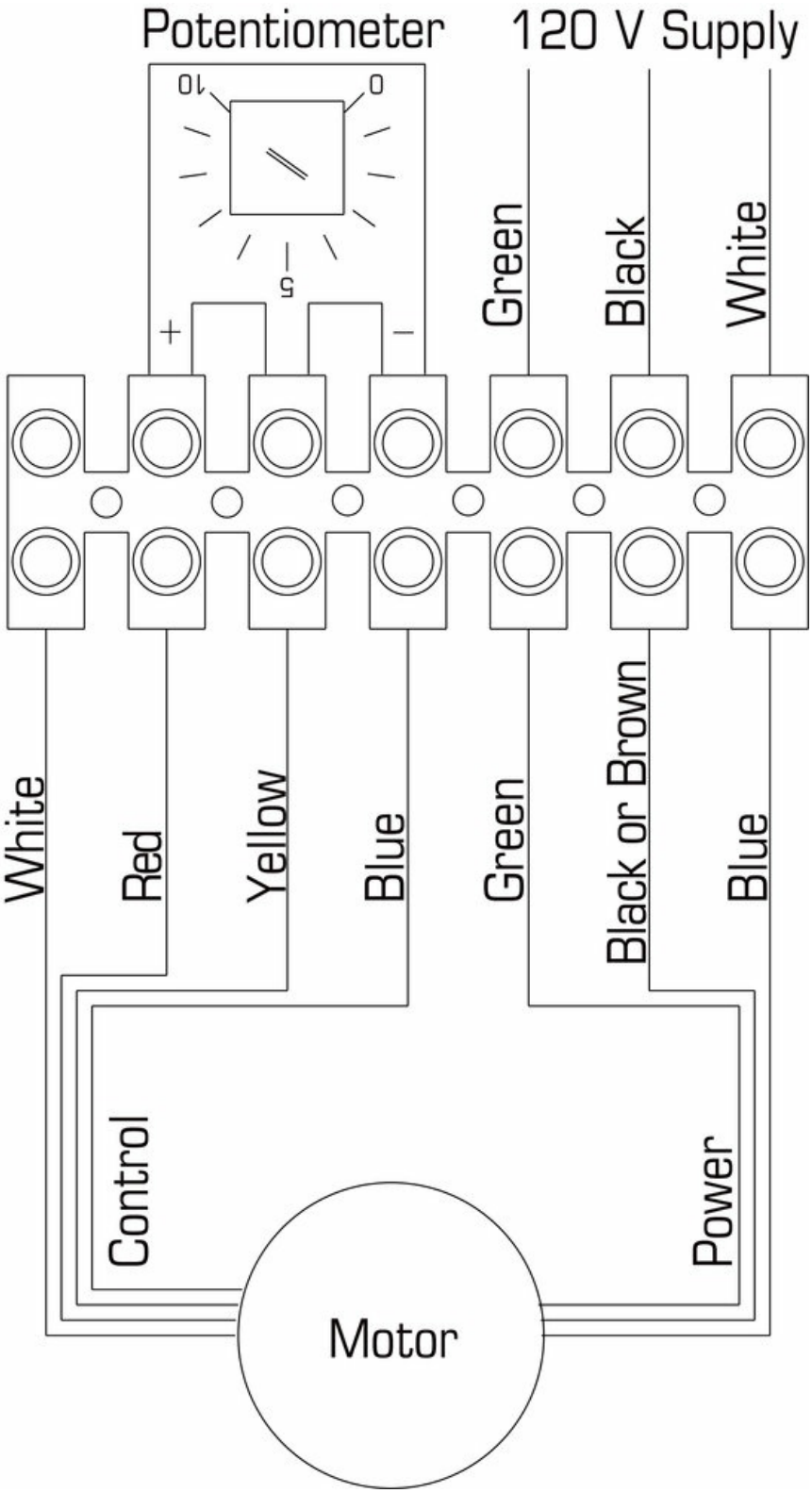
## Dimensions




| Model | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| Rn2EC | 4 15/32 (114) | 10 (254) | 1 1/4 (32) | 9 1/4 (235) | - | - | - |
| Rn4EC-3 | 5 7/8 (149) | 11 1/2 (292) | 1 1/4 (32) | 9 1/4 (235) | 4 (102) | 3 1/2 (89) | 6 (152) |
| Rn4EC-4 | 5 7/8 (149) | 11 1/2 (292) | 1 1/4 (32) | 9 1/4 (235) | 4 (102) | 4 1/2 (114) | 6 (152) |

Dimensions in inches (mm).

## Wiring


Potentiometer
120 V Supply
10
0
5
+
−
Green
Black
White
White
Red
Yellow
Blue
Green
Black or Brown
Blue
Control
Power
Motor

## Documents

- 142001 Rn2EC-Rn4-EC OIPM EN FR.PDF

# Appendix G – Import Backfill Material Documents

**NEW YORK STATE**
**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

***Request to Import/Reuse Fill or Soil***

*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.*

## SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 200-300

If greater than 1000 cubic yards will be imported, enter volume to be imported:

## SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

## SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

No sampling performed, meets DER 10 Section 5.5 sampling exemption. Virgin stone from a permitted permitted quarry with < 10% material passing through a size 80 sieve.

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

## SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

---

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

## SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

New Enterprise Stone & Lime, Inc. - owner of quarry

Location where fill was obtained:

8615 Wehrle Drive, Williamsville, NY 14221

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

NYSDEC Mined Land Reclamation permit 9-1499-00064/00003

Provide a list of supporting documentation included with this request:

Proctor and sieve analysis.

The information provided on this form is accurate and complete.

Adam Zeb

Signature

6/3/2019

Date

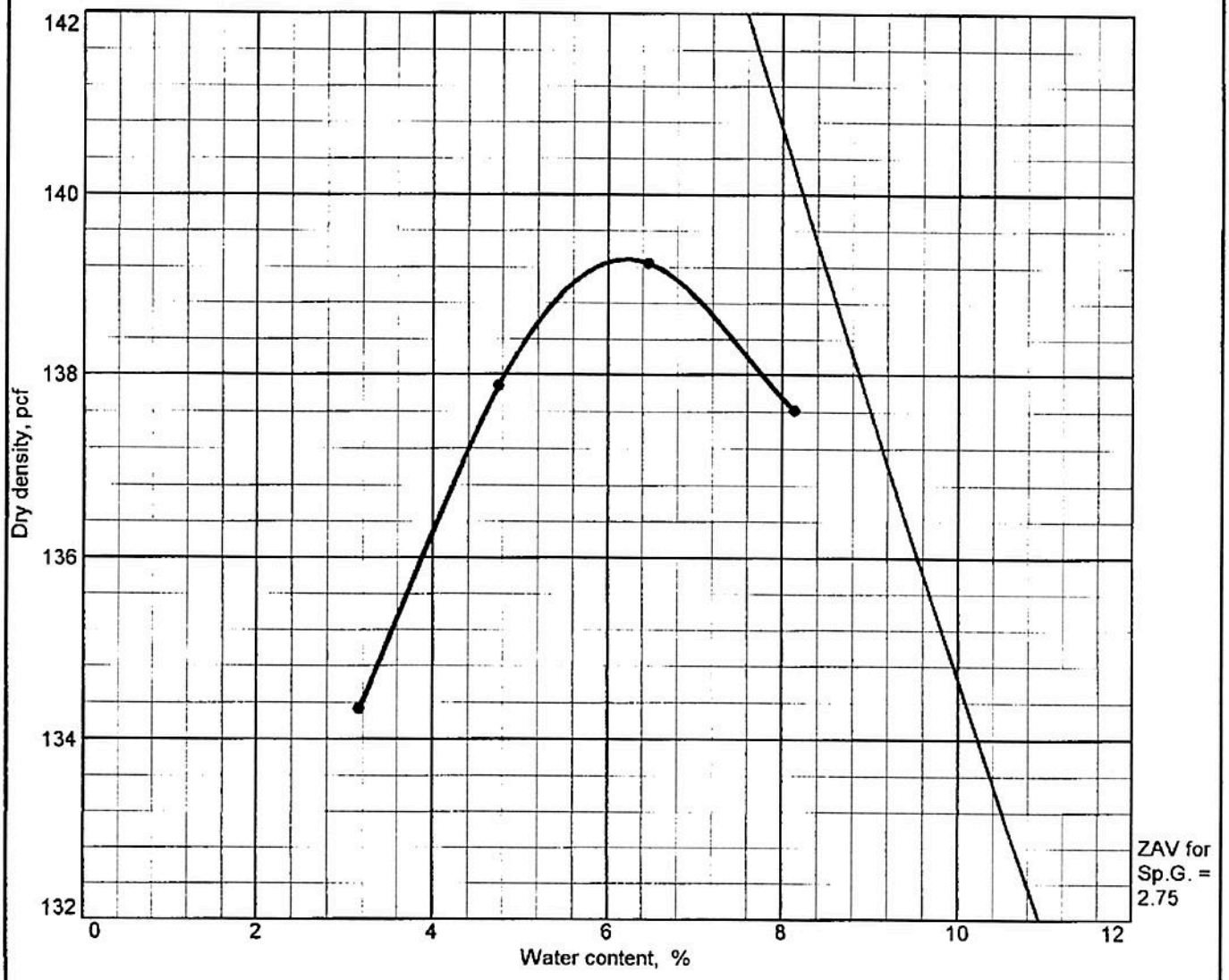
Adam Zebrowski

Print Name

LaBella Associates, D.P.C.

Firm

# COMPACTION TEST REPORT - MANUAL RAMMER




Test specification: ASTM D 1557-12 Procedure C Modified
Oversize correction applied to each point

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > 3/4 in. | % < No.200 |
|---|---|---|---|---|---|---|---|---|
| | USCS | AASHTO | | | | | | |
| | | | | 2.65 | | | 15.2 | 4.9 |

| ROCK CORRECTED TEST RESULTS | MATERIAL DESCRIPTION |
|---|---|
| Maximum dry density = 139.3 pcf<br>Optimum moisture = 6.2 % | 2" ROC STONE |

**Project No.** BT-17-019 **Client:** NEW ENTERPRISE STONE & LIME INC.
**Project:** MATERIALS TESTING: NEW ENTERPRISE STONE & LIME

• **Location:** WEHRLE DRIVE PLANT

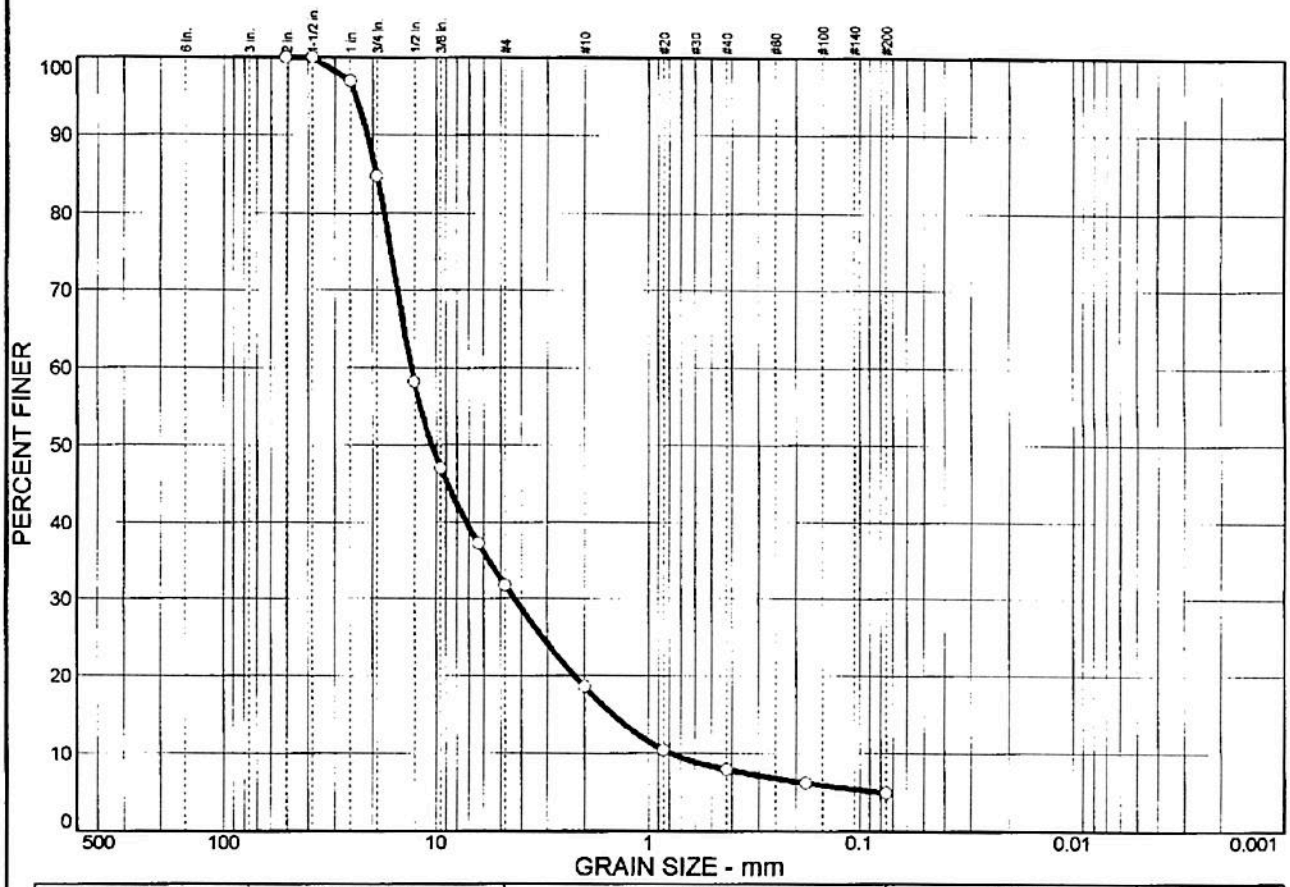
**Remarks:**
LTR-6
SAMPLE NUMBER: 19-220

COMPACTION TEST REPORT - MANUAL RAMMER

**SJB SERVICES, INC.**

**Plate**

# Particle Size Distribution Report ASTM D-422 / ASTM D-1140




| % COBBLES | % GRAVEL | % SAND | % SILT | % CLAY |
|---|---|---|---|---|
| 0.0 | 68.2 | 26.9 | 4.9 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---|---|---|---|
| 2 in. | 100.0 | | |
| 1.5 in. | 100.0 | | |
| 1 in. | 97.0 | | |
| .75 in. | 84.8 | | |
| .5 in. | 58.2 | | |
| .375 in. | 47.0 | | |
| .25 in. | 37.3 | | |
| #4 | 31.8 | | |
| #10 | 18.5 | | |
| #20 | 10.4 | | |
| #40 | 7.9 | | |
| #80 | 6.2 | | |
| #200 | 4.9 | | |

* (no specification provided)

**Soil Description**

2" ROC STONE

**Atterberg Limits**

PL= LL= PI=

**Coefficients**

$D_{85}$= 19.1 $D_{60}$= 13.1 $D_{50}$= 10.5
$D_{30}$= 4.29 $D_{15}$= 1.48 $D_{10}$= 0.791
$C_u$= 16.57 $C_c$= 1.77

**Classification**

USCS= AASHTO=

**Remarks**

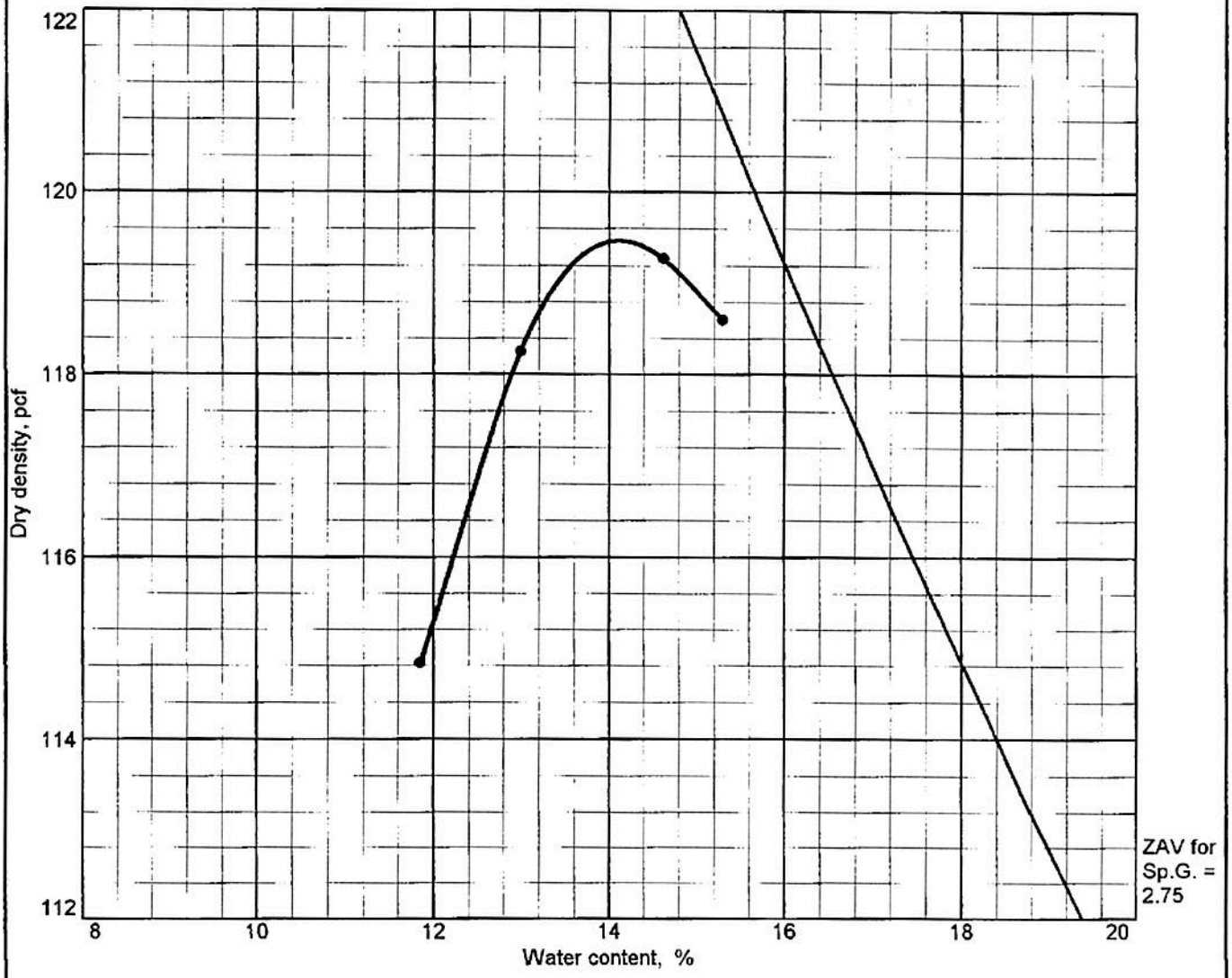
LTR-6
SAMPLED BY: NESL
DATE RECEIVED: 3-12-2019

**Sample No.:** 19-220 **Source of Sample:** NEW ENTERPRISE STONE & LIME **Date:** 3-26-2019
**Location:** WEHRLE DRIVE PLANT **Elev./Depth:**

**SJB SERVICES, INC.**

**Client:** NEW ENTERPRISE STONE & LIME INC.
**Project:** MATERIALS TESTING: NEW ENTERPRISE STONE & LIME
**Project No:** BT-17-019 **Plate**

# COMPACTION TEST REPORT - MANUAL RAMMER




Test specification: ASTM D 1557-12 Procedure C Modified
Oversize correction applied to each point

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > 3/4 in. | % < No.200 |
|---|---|---|---|---|---|---|---|---|
| | USCS | AASHTO | | | | | | |
| | | | | 2.65 | | | 18.9 | 2.2 |

| ROCK CORRECTED TEST RESULTS | MATERIAL DESCRIPTION |
|---|---|
| Maximum dry density = 119.5 pcf<br>Optimum moisture = 14.1 % | 2" RECYCLED CRUSHED CONCRETE |

**Project No.** BT-17-019 **Client:** NEW ENTERPRISE STONE & LIME INC.
**Project:** MATERIALS TESTING: NEW ENTERPRISE STONE & LIME

• **Location:** WOODLAWN PLANT

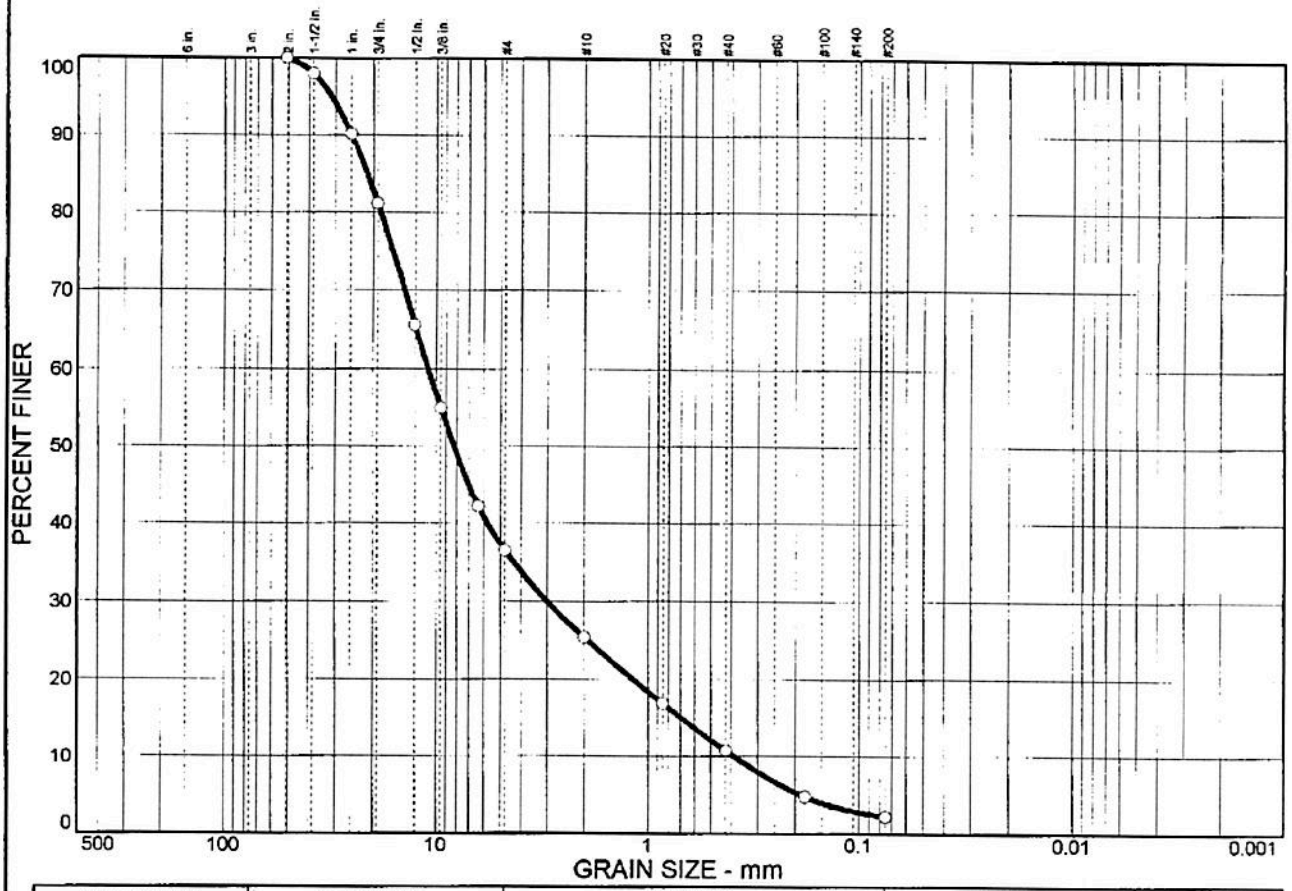
**Remarks:**
LTR-7
SAMPLE NUMBER: 19-221

COMPACTION TEST REPORT - MANUAL RAMMER

**SJB SERVICES, INC.**

**Plate**

# Particle Size Distribution Report ASTM D-422 / ASTM D-1140




| % COBBLES | % GRAVEL | % SAND | % SILT | % CLAY |
|---|---|---|---|---|
| 0.0 | 63.5 | 34.3 | 2.2 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---|---|---|---|
| 2 in. | 100.0 | | |
| 1.5 in. | 98.0 | | |
| 1 in. | 90.1 | | |
| .75 in. | 81.1 | | |
| .5 in. | 65.6 | | |
| .375 in. | 55.0 | | |
| .25 in. | 42.2 | | |
| #4 | 36.5 | | |
| #10 | 25.4 | | |
| #20 | 16.8 | | |
| #40 | 10.7 | | |
| #80 | 4.8 | | |
| #200 | 2.2 | | |

* (no specification provided)

**Soil Description**

2" RECYCLED CRUSHED CONCRETE

**Atterberg Limits**

PL= LL= PI=

**Coefficients**

$D_{85}$= 21.4 $D_{60}$= 10.9 $D_{50}$= 8.25
$D_{30}$= 3.00 $D_{15}$= 0.699 $D_{10}$= 0.390
$C_u$= 28.04 $C_c$= 2.10

**Classification**

USCS= AASHTO=

**Remarks**

LTR-7
SAMPLED BY: NESL
DATE RECEIVED: 3-12-2019

**Sample No.:** 19-221 **Source of Sample:** NEW ENTERPRISE STONE & LIME **Date:** 3-26-2019
**Location:** WOODLAWN PLANT **Elev./Depth:**

**SJB SERVICES, INC.**

**Client:** NEW ENTERPRISE STONE & LIME INC.
**Project:** MATERIALS TESTING: NEW ENTERPRISE STONE & LIME

**Project No:** BT-17-019 **Plate**

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50273940 | 1 | W | 06/05/2019 | 1:10 pm |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION: 2019 HOME BUILDERS- 23
Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 44335jj | 0 | B00PLI38 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 76.000 | | | | CREDIT | | |
| US WEIGHT 70,900 | 35.45 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 27,260 | 13.63 Ton | TARE | TODAY 21.82 | LOADS 1 | HAUL | | |
| 43,640 | 21.82 Ton | NET | TODATE 1,953.16 | LOADS 91 | ADD'L CHARGES | | |
| 21.82 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY 14540
TOTAL THIS LOAD

INSPECTOR'S SIGNATURE
JOB ARRIVAL TIME
JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPLIED TO ALL AMOUNTS OVER 30 DAYS PAST DUE

Have a good and safe day

Plant #: 54230100 Ticket #: 50273940 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50273992 | 1 | W | 06/05/2019 | 2:06 pm |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 44335jj | 0 | B00PLI38 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 76.000 | | | | CREDIT | | |
| US WEIGHT 70,580 | 35.29 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 27,260 | 13.63 Ton | TARE | TODAY 43.48 | LOADS 2 | HAUL | | |
| 43,320 | 21.66 Ton | NET | TODATE 1,974.82 | LOADS 92 | ADD'L CHARGES | | |
| 21.66 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY
14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE

X

Have a good and safe day

Plant #: 54230100 Ticket #: 50273992 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274026 | 2 | W | 06/05/2019 | 2:44 pm |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 44335ii | 0 | B00PLI38 | | |

| FREIGHT PICKUP | FREIGHT COLLECT 76.000 | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD CREDIT | | |
|---|---|---|---|---|---|---|---|
| US WEIGHT 70,900 | 35.45 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 27,260 | 13.63 Ton | TARE | TODAY 65.30 | LOADS 3 | HAUL | | |
| 43,640 | 21.82 Ton | NET | TODATE 1,996.64 | LOADS 93 | ADD'L CHARGES | | |
| 21.82 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY
14497

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APP TO ALL AMOUNTS OVER 30 DAYS PAST DUE.

Have a good and safe day

Plant #: 54230100 Ticket #: 50274026 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274322 | 1 | W | 06/07/2019 | 8:33 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| | 0 | B00PLI40 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 75.000 | | | | CREDIT | | |
| US WEIGHT 72,380 | 36.19 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 28,320 | 14.16 Ton | TARE | TODAY 67.11 | LOADS 3 | HAUL | | |
| 44,060 | 22.03 Ton | NET | TODATE 2,495.65 | LOADS 112 | ADD'L CHARGES | | |
| 22.03 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY 14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE

X

Have a good and safe day

Plant #: 54230100 Ticket #: 50274322 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274144 | 1 | W | 06/06/2019 | 10:36 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 62187ML | 3 | B00PLI21 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 72.500 | | | | CREDIT | | |
| US WEIGHT 68,860 | 34.43 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 25,240 | 12.62 Ton | TARE | TODAY 265.30 | LOADS 10 | HAUL | | |
| 43,620 | 21.81 Ton | NET | TODATE 2,261.94 | LOADS 103 | ADD'L CHARGES | | |
| 21.81 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY 14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE.

Have a good and safe day

Plant #: 54230100 Ticket #: 50274144 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274123 | 2 | W | 06/06/2019 | 9:52 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION: 2019 HOME BUILDERS- 23
Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 62187ML | 3 | B00PLI21 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 72.500 | | | | CREDIT | | |
| US WEIGHT 65,700 | 32.85 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 25,240 | 12.62 Ton | TARE | TODAY 203.34 | LOADS 8 | HAUL | | |
| 40,460 | 20.23 Ton | NET | TODATE 2,199.98 | LOADS 101 | ADD'L CHARGES | | |
| 20.23 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY 14540
TOTAL THIS LOAD

INSPECTOR'S SIGNATURE
JOB ARRIVAL TIME
JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE.

X

Have a good and safe day

Plant #: 54230100 Ticket #: 50274123 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274108 | 2 | W | 06/06/2019 | 9:08 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 62187ML | 3 | B00PLI21 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 72,500 | | | | CREDIT | | |
| US WEIGHT 67,940 | 33.97 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 25,240 | 12.62 Ton | TARE | TODAY 144.89 | LOADS 6 | HAUL | | |
| 42,700 | 21.35 Ton | NET | TODATE 2,141.53 | LOADS 99 | ADD'L CHARGES | | |
| 21.35 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY
14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

X

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE.

Have a good and safe day

Plant #: 54230100 Ticket #: 50274108 PICKUP

ORIGINAL - CUSTOMER

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274096 | 1 | W | 06/06/2019 | 8:27 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 62187ML | 3 | B00PLI21 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 72,500 | | | | CREDIT | | |
| US WEIGHT 66,340 | 33.17 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 25,240 | 12.62 Ton | TARE | TODAY 123.54 | LOADS 5 | HAUL | | |
| 41,100 | 20.55 Ton | NET | TODATE 2,120.18 | LOADS 98 | ADD'L CHARGES | | |
| 20.55 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY
14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE

X

Have a good and safe day

Plant #: 54230100 Ticket #: 50274096 PICKUP

HAULER

Void - Customer Do Not Accept

# New Enterprise Stone & Lime Co., Inc.

500 Como Park Blvd
Buffalo, New York 14227
Phone: (716) 826-7310 Fax: (716) 826-1342

PLANT INFORMATION: - 54230100 - WEHRLE AGGREGATES (716) 566-9633

| ORDER NO. | TICKET NUMBER | SCALE | AUTO/MANUAL | DATE | TIME |
|---|---|---|---|---|---|
| 1000193850 | 50274063 | 1 | W | 06/06/2019 | 7:38 am |

SOLD TO:
Pariso Logistics, Inc
3649 River Rd
Tonawanda, NY 14150-

CUSTOMER: 81997
PHONE:
PO #: 2019 HOME BUILDERS- 23

SHIP TO:

QUOTE:
STATE: NY
ZONE:

| PRODUCT ID | PRODUCT DESCRIPTION |
|---|---|
| 280300 | STONE, 2" CRUSHER RUN |

JOB NAME / LOCATION
2019 HOME BUILDERS- 23

Item

JOB REQUIRED NUMBERS
COUNTY: ERIE 2019 HOME BUILDERS- 23

| TAG NO. | AXLES | TRUCK | CARRIER NAME | CARRIER CODE |
|---|---|---|---|---|
| 62187ML | 3 | B00PLI21 | | |

| FREIGHT | FREIGHT COLLECT | | ACCUMULATIVE QUANTITIES | | PAYMENT METHOD | | |
|---|---|---|---|---|---|---|---|
| PICKUP | 72,500 | | | | CREDIT | | |
| US WEIGHT 66,900 | 33.45 Ton | GROSS | ORDERED 0.00 | | MATERIAL | | |
| 25,240 | 12.62 Ton | TARE | TODAY 20.83 | LOADS 1 | HAUL | | |
| 41,660 | 20.83 Ton | NET | TODATE 2,017.47 | LOADS 94 | ADD'L CHARGES | | |
| 20.83 | | Ton | ACCUMULATED CASH SALE | | TAX | | |

WEIGHED BY
14540

TOTAL THIS LOAD

INSPECTOR'S SIGNATURE

JOB ARRIVAL TIME

JOB DEPARTURE TIME

RECEIVED ABOVE MATERIAL IN GOOD CONDITION. YOUR SIGNATURE OR ACTUAL RECEIPT/DELIVERY ACKNOWLEDGES ACCEPTANCE OF THE CONDITIONS ON THE BACK OF THIS TICKET.

A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWABLE BY LAW WILL BE APPL TO ALL AMOUNTS OVER 30 DAYS PAST DUE.

X

Have a good and safe day

Plant #: 54230100 Ticket #: 50274063 PICKUP

ORIGINAL - CUSTOMER

# Appendix H – Environmental Easenment

ERIE COUNTY CLERK'S OFFICE

County Clerk's Recording Page

Return to:
BOX 104
BARCLAY DAMON LLP
M MURPHY

**Book Type: D Book: 11354 Page: 826**
Page Count: 10
Doc Type: EASEMENT/RTWY
Rec Date: 12/12/2019
Rec Time: 02:41:33 PM
Control #: 2019275208
UserID: Megan
Trans #: 19210111
Document Sequence Number
TT2019010230

Party 1:
WALDEN REALTY LIMITED PARTNERSHIP

Party 2:

**Consideration Amount: 1.00**

**Recording Fees:**

| | |
|---|---|
| RECORDING | $70.00 |
| COE CO $1 RET | $1.00 |
| COE STATE $14.25 GEN | $14.25 |
| COE STATE $4.75 RM | $4.75 |
| TP584 | $10.00 |

| | |
|---|---|
| BASIC MT | $0.00 |
| SONYMA MT | $0.00 |
| ADDL MT/NFTA | $0.00 |
| SP MT/M-RAIL | $0.00 |
| NY STATE TT | $0.00 |
| ROAD FUND TT | $0.00 |

**Total: $100.00**

STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE

WARNING – THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT REQUIRED BY SECTION 319&316-a (5) OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK. DO NOT DETACH. THIS IS NOT A BILL.

Michael P. Kearns
Erie County Clerk

Box 104
Barclay Damon LLP
M. Murphy

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

**THIS INDENTURE** made this 5th day of December, 2019, between Owner, Walden Realty Limited Partnership, having an office at 11980 Walden Avenue, Alden, New York 14004-9709, County of Erie, 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

**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 11075 Walden Avenue in the Town of Alden, County of Erie and State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 96.00 Block 4 Lot 6.2, being the same as that property conveyed to Grantor by deed dated August 5, 1998 and recorded in the Erie County Clerk's Office in Liber and Page 10936/8771. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 2.96 +/- acres, and is hereinafter more fully described in the Land Title Survey dated June 17, 2019 prepared by Richard Nathan Johnson, L.L.S. of Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C., 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



MF 275268
785-9

extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE**, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C915333-08-20, 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 Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(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: C915333
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.

Walden Realty Limited Partnership:

By: Sovereign Asset Management, LLC

By: James J. Doro

Print Name: James J. Doro

Title: President/Manager of the General Partner Date: 11/1/19

**Grantor's Acknowledgment**

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

On the 1st day of November, in the year 2019, before me, the undersigned, personally appeared James J. Doro, 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.

Herbert J. Glose
Notary Public - State of New York

HERBERT J. GLOSE
NOTARY PUBLIC, State of New York
Qualified in Erie County
My Commission Expires Sept. 30, 2020

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

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

**Grantee's Acknowledgment**

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

On the 5th day of December, in the year 2019 before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

**David J. Chiusano**
**Notary Public, State of New York**
**No. 01CH5032146**
**Qualified in Schenectady County**
**Commission Expires August 22, 2022**

## SCHEDULE "A" PROPERTY DESCRIPTION

### LEGAL DESCRIPTION OF ENVIRONMENTAL EASEMENT AREA NYSDEC INDEX NO. C915333-08-20 FROM THE INSTRUMENT SURVEY DATED MAY 2019

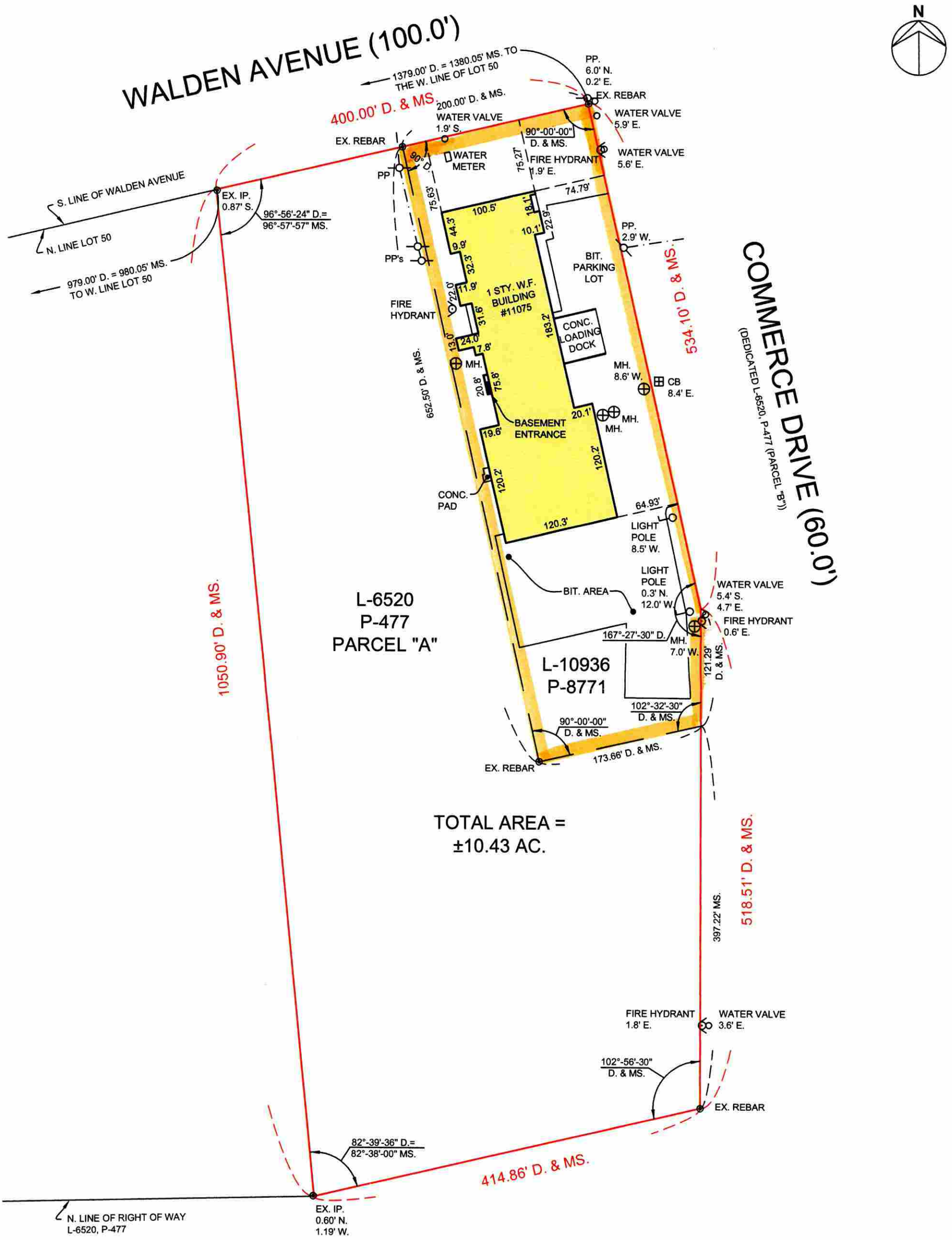
All that tract or parcel of land, situate in the Town of Alden, county of Erie and state of New York, being part of Lot No. 50, Township 11, Range 5, of the Holland land company's survey, described as follows:

Beginning at a point in the south line of Walden Avenue; said line also being the north line of lot no. 50, distant 1380.05 feet easterly from its intersection with the westerly line of Lot No. 50; running thence southeasterly at right angles, 534.10 feet; continuing thence southerly and forming an interior angle of 167°-27'-30" with the last described course, 121.29 feet; running thence westerly and at an interior angle of 102°-32'-30", 173.66 feet; running thence northerly at right angles, 652.50 feet to a point in the south line of Walden Avenue; running thence easterly at right angles, 200 feet to the principal point or place of beginning. Containing 2.96 acres, more or less.

DRAWING NAME
05.004

**LEGEND:**

AC. = ACRES
APPROX. = APPROXIMATE
AVE. = AVENUE
BIT. = BITUMINOUS
CB = CATCH BASIN
CH. = CHAIN
CONC. = CONCRETE
COR. = CORNER
C.T.V. = CABLE TV BOX
℄ = CENTERLINE
D. = DEED
DIA. = DIAMETER
DIST. = DISTANCE
E = EAST
EJB = ELECTRICAL JUNCTION BOX
ENC. = ENCROACHMENT
ESMT. = EASEMENT
EX. = EXISTING
FNC. = FENCE
GAR. = GARAGE
IP. = IRON PIPE
L = LIBER
MH = MANHOLE
MP. = MAP
MS. = MEASURED
N = NORTH
O/H = OVERHEAD
O/L = ON LINE
PO. = PORCH
PP = POWER POLE
P = PAGE
℗ = PROPERTY LINE
PAV'T = PAVEMENT
RD. = ROAD
S = SOUTH
ST. = STREET
STY. = STORY
TJB = TELEPHONE JUNCTION BOX
TYP. = TYPICAL
W = WEST
W/ = WITH
WD. = WOOD
W.F. = WOODFRAME




REVISED 2/27/2017; DEED INFORMATION

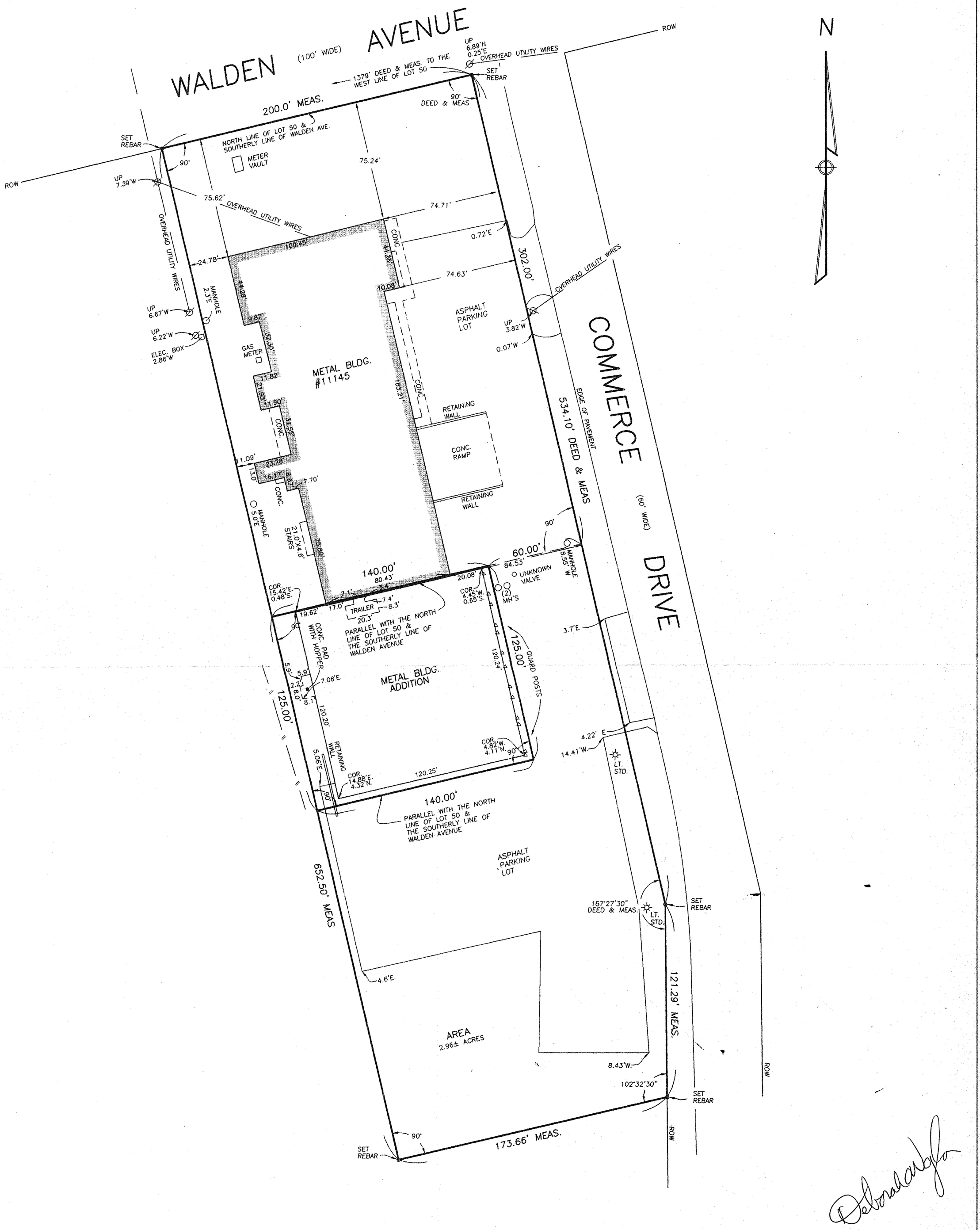
TAX IDENTIFICATION No.: 96.00-4-6.1 & 6.2
MAP REFERENCE:

NOTES:
-ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MAP MARKED WITH THE SIGNATURE AND AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
-UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209. PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Christopher J. Scott


wendel
Centerpointe Corporate Park * 375 Essjay Road, Suite 200
Williamsville, New York 14221
PHONE: 716.688.0766 FAX: 716.625.6825
WEBSITE: www.wendelcompanies.com
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.


| | | | |
|---|---|---|---|
| PART OF LOT 50 | SEC. - | TWP. 11 | RNG. 5 |
| OF THE HOLLAND LAND COMPANY'S SURVEY | | | |
| TOWN ALDEN | | PROJ. NO. 2963-17-05/004 | |
| COUNTY ERIE, NY | | SCALE 1" = 100' | |
| CREW MLH, AAD | DWN. MLH | CHK. CJS | DATE 2/9/2017 |




THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATEMENT OF FACTS THAT MAY BE REVEALED BY AN EXAMINATION OF SUCH.

WARNING: ALTERING THIS DOCUMENT IS IN VIOLATION OF THE LAW EXCEPTING AS PROVIDED IN SECTION 7209, PART 2 OF THE NEW YORK STATE EDUCATION LAW.

CADD2: \ 98127\98127REV.DWG

| DATE OF SURVEY | DATE OF REVISION | COMMENT |
|---|---|---|
| 6/15/1998 | 7/1/1998 | SET PROPERTY CORNERS |
| 6/15/1998 | 7/14/1998 | CHANGE RANGE NUMBER |
| 3/23/2000 | 3/27/2000 | ADD ADDITIONAL PARKING AND PROPERTY LINES AROUND ADDITION |
| 3/23/2000 | 5/17/2000 | ADD MEAS. TO TIE DIST. OF 1379' & MOVE PROPERTY LINES 1.35' E |
| | | |
| | | |
| | | |
| | | |
| | | |

# SURVEY

PART OF LOT 50, TWP.11, RGE.5
TOWN OF ALDEN
COUNTY OF ERIE ~ STATE OF NEW YORK


## DEBORAH A. NAYBOR PLS, PC.

LAND SURVEYING – LAND PLANNING
11901 BROADWAY
ALDEN, NEW YORK 14004
(716) 937–9448


DATE : 6/15/1998 SHEET: 1 OF 1 DWN BY: PDS

JOB NO.: 98127 SCALE: 1" = 40' CHK BY:

# Appendix I – Contained-In Documentation

# Contained-In Determination Work Plan
## AOC #2

Location:

BCP Site #C915333
11075 Walden Avenue
Alden, New York

Prepared for:

Walden Realty Limited Partnership/Doritex Corp.
11980 Walden Avenue
Alden, New York

LaBella Project No. 2180605

April 4, 2019

300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

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Figure 1 – Site Location Map
Figure 2 – AOC #2

Tables

Table 1 – Summary of Subsurface Soil Analytical Results
Table 2 – Summary of Groundwater Analytical Results

Appendix 1 – Phase II ESA Subsurface Logs

## 1.0 Introduction

LaBella Associates D.P.C. ("LaBella") prepared this "Contained-In" Determination Work Plan on behalf of Walden Realty Limited Partnership and Doritex Corp. (collectively, the "Participant") for the property addressed as 11075 Walden Avenue, in the Town of Alden, Erie County, New York, hereinafter referred to as the "Site". The Site currently includes the Site Building located on the middle portion of the Site, asphalt-paved parking (impervious surfaces) located east and south of the Site Building, and greenspace located north and west of the Site Building and to the south beyond the asphalt-paved parking lot. A Site Location Map is included as Figure 1. The Site was recently accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) under a volunteer status (Site #C915333). This "Contained-In" Determination Work Plan is being submitted to address soil waste which will be generated during the implementation of interim remedial measures (IRMs) at this Site associated with AOC #2 [chlorinated solvent volatile organic compound (cVOC)-impacted soil]. Based on soil laboratory analytical results from several Phase II Environmental Site Assessments (ESAs) conducted at the Site, cVOC impacted soil was identified beneath the west central portion of the Site Building. This Work Plan includes soil and groundwater data obtained through the completion of the previous Phase II ESAs at the Site by LaBella. Refer to Tables 1 and 2. This document was prepared in accordance with the "Contained-In" Criteria identified in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 3028.

## 2.0 Proposed "Contained-In" Sampling

This section outlines a sampling plan for making the "Contained-In" determination. Approximately 200 tons of cVOC-impacted soil has been proposed for excavation as part of the AOC #2 remedy. It is anticipated that soil excavated from the limits of AOC #2 will be separated into four piles, each pile containing approximately 50 tons of soil. Based on the anticipated volume of material which will be generated, NYSDEC Division of Environmental Remediation-10 Table 5.4(e)10 *"Recommended Number of Soil Samples for Soil Imported To or Exported From a Site"*, the following sampling plan is proposed for the "Contained-In" determination:

- One discrete soil sample collected from each soil pile (total four soil samples) and submitted for laboratory analysis for target compound list volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260
- One discrete soil sample collected from each soil pile (total four soil samples) and submitted for laboratory analysis for toxicity characteristic leaching procedure (TCLP) VOCs using USEPA Method 8260
- One soil sample will be collected from each soil pile and combined into one composite soil sample and submitted for laboratory analysis for TCLP semi-volatile organic compounds and metals using USEPA Method 1311, flashpoint using USEPA Method 1030, reactivity using USEPA Method 7.3 and corrosivity

Based on the results of the "Contained-In" sampling, approximate tonnages of soil deemed hazardous vs. non-hazardous will be confirmed for subsequent loading and off-site transport during IRM activities.

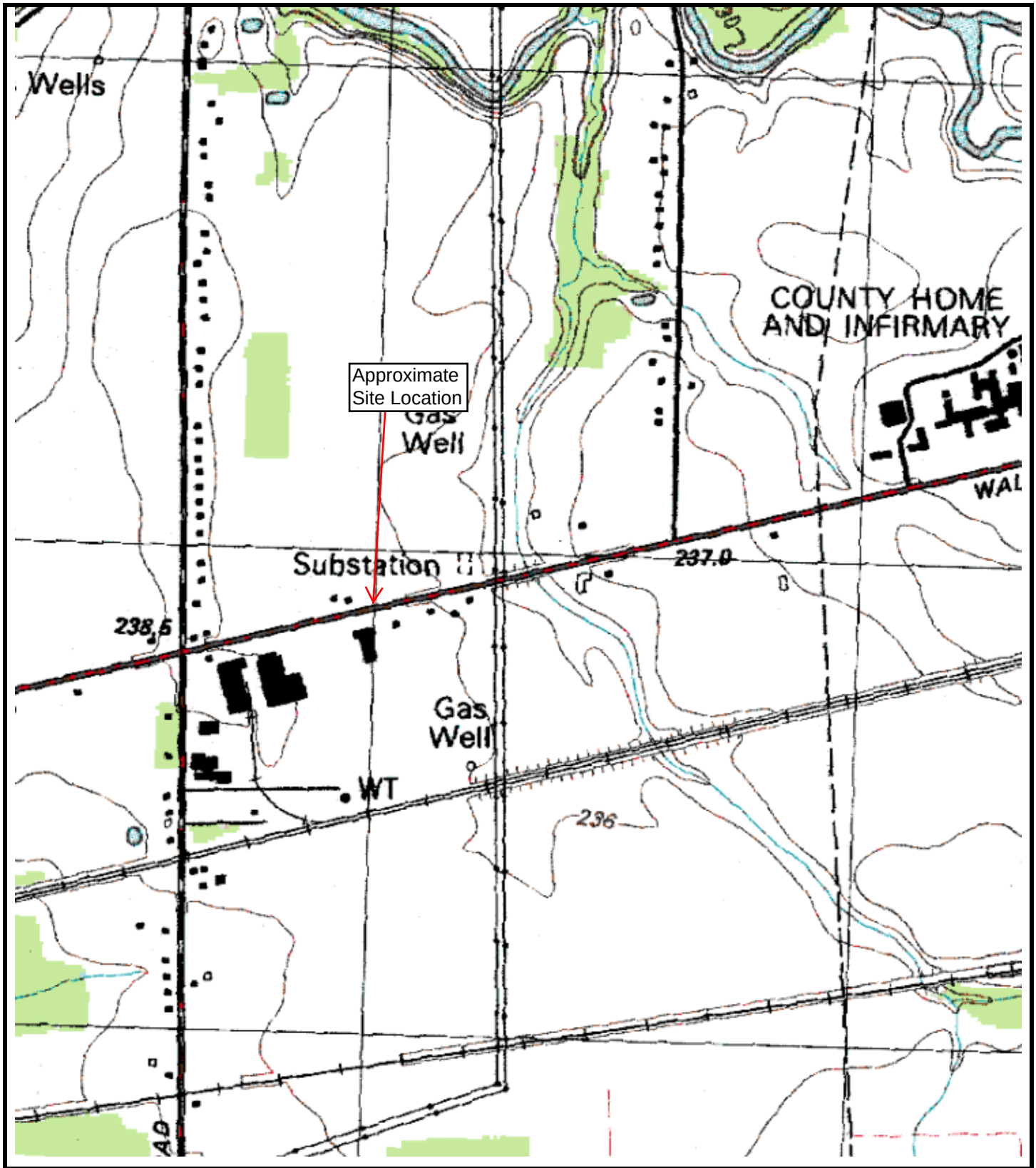
## 3.0 “Contained-In” Request

Subsequent to completing the sampling and receiving the analytical results, LaBella will submit a “Contained-In” request that provides the sampling completed, the laboratory results, the quantities of material, etc. Currently it is anticipated that the soil waste will be approved for ‘Contained-In’ and will be disposed of at a solid waste landfill with a 6 NYCRR Part 360 Permit. This request will provide the proposed disposal facility and request approval by NYSDEC (if data supports the request).

J:\WALDEN REALTY\2180605 - 11075 WALDEN AVE BCP\REPORTS\CONTAINED-IN DETERMINATION\11075 WALDEN AVENUE_CONTAINED IN WORK PLAN.DOC

LaBella
Powered by partnership.

# FIGURES




N

NOT TO SCALE

# FIGURE 1
## SITE LOCATION MAP

11075 Walden Avenue
Alden, New York

LaBella
Powered by partnership.

PROJECT NO. 2180605




## Legend

- Approximate Site Boundary
- Phase II Soil Boring Location (6/9/17)
- Phase II Temporary Monitoring Well Location (6/12/17)
- Supplemental Phase II Soil Boring Location (8/7/17 and 10/5/17)
- Anticipated Limits of Chlorinated VOC Impacted Soil Excavation/AOC#2

| PROJECT #/DRAWING #/DATE: | DRAWING NAME: | PROJECT: |
|---|---|---|
| 2180605<br>FIGURE 2<br>4/4/2019 | PREVIOUS SUBSURFACE INVESTIGATION LOCATIONS | CONTAINED-IN WORK PLAN<br>11075 WALDEN AVENUE<br>ALDEN, NEW YORK |

N W E S

0 40 80 Feet

1 inch = 100 feet

INTENDED TO PRINT AS: 8.5" X 11"

LaBella Powered by partnership.

Path: J:\Walden Realty\2180605 - 11075 Walden Ave BCP\Reports\Contained-In Determination\Figures\Map.2019.3.11.Fig3.AOC.mxd

LaBella
Powered by partnership.

# TABLES

**Table 1**
**11075 Walden Avenue**
**Alden, New York**
**Contained-In Determination Work Plan**
**Summary of Subsurface Soil Analytical Results**
**(Detected Analytes Only)**

| Sample ID | SB-1 | SB-2 | SB-3 | SB-4 | SB-6 | SB-7 | SB-8 | SB-11 | SB-12 | SB-13A | SB-14 | SB-16 | SB-17 | SB-17 | SB-18 | SB-19 | SB-20 | SB-21 | SB-22 | SB-23 | SB-24 | SB-25 | SB-25 | SB-26 | SB-27 | SB-28 | SB-29 | CP-51 SCG | Part 375 Commercial Use SCOs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bgs) | 0.3-1 | 1-2 | 9-10 | 5-6 | 10-11 | 4-5 | 2-3 | 1-2 | 0.6-1 | 2-3 | 8-9 | 1-2 | 0.6-2 | 14-16 | 12-14 | 14-16 | 8-10 | 14-16 | 4-6 | 0.6-2 | 0.6-2 | 0.6-2 | 2-4 | 0.6-2 | 4-6 | 0.6-2 | 0.6-2 | | |
| Sample Date | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/8/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 6/9/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 8/7/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | 10/5/2017 | | |
| **Volatile Organic Compounds (µg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 2.7 J | NA | < | < | 6.7 J | < | 22 | NA | NA | 56 | < | < | < | < | < | 9 J | < | 6.7 J | < | 43 | 23 | 40 | 38 | < | 14 | 25 | 37 | NL | < |
| Chlorobenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 4.9 | 5.7 | < | < | < | < | NL | 500,000 |
| Cyclohexane | 0.44 J | NA | < | 0.35 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | 0.7 J | NL | NL |
| 1,1-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 10 | 5.9 | < | < | < | < | NL | 500,000 |
| cis-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 1.1 | < | 120 | < | 140 | < | < | < | < | 56 | 29 | < | 7,600 | < | 0.9 J | 0.45 J | 24 | NL | 500,000 |
| trans-1,2-Dichloroethene | < | NA | < | < | < | < | < | NA | NA | < | < | < | 0.4 J | < | < | < | < | < | < | 2.3 J | 0.3 J | 27 | 11 | < | < | < | 1.5 J | NL | 500,000 |
| Ethylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 1.9 J | 4.7 | < | < | < | < | 1,000 | 390,000 |
| Isopropylbenzene | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | 0.59 J | < | < | < | < | 2,300 | NL |
| Methylcyclohexane | 0.58 J | NA | < | 0.33 J | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NL | NL |
| Methylene chloride | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | 540 J B | 19 J B | < | < | < | < | < | < | < | < | < | < | < | < | NL | 500,000 |
| Methyl ethyl ketone (2-Butanone) | < | NA | < | < | < | < | < | NA | NA | 9.2 | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | < | NL | 500,000 |
| 4-Methyl-2-pentanone | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | < | 1.9 J | < | < | < | < | NL | NL |
| Tetrachloroethene | 1.3 | NA | < | < | < | < | < | NA | NA | < | 170 | < | 130,000 | < | 2,900 | 0.59 J | < | < | < | 6,200 | 64,000 | 140,000 | 49,000 | 7,700 | 15 B | 6.4 B | 0.99 J B | NL | 150,000 |
| Toluene | 0.24 J | NA | < | < | < | < | < | NA | NA | < | < | < | 0.28 J | < | < | < | < | < | < | < | < | 7 | 15 | < | < | < | < | 700 | 500,000 |
| Trichloroethene | < | NA | < | < | < | < | < | NA | NA | < | 5.6 | < | 21 | < | 82 | < | < | < | < | 44 | 8.1 | < | 1,900 | 4.1 | < | < | < | NL | 200,000 |
| Vinyl Chloride | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 4.1 | 35 | < | < | < | 2.4 J | NL | 13,000 |
| Total Xylenes | < | NA | < | < | < | < | < | NA | NA | < | < | < | < | < | < | < | < | < | < | < | < | 7.3 | 22 | < | < | < | < | 260 | 500,000 |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 2.4 J | 4.87 | NA | NA | NA | NA | NA | 2.06 | 4.03 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 16 |
| Barium | 22.6 | 104 | NA | NA | NA | NA | NA | 11.3 | 38.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 400 |
| Cadmium | 0.107 | 0.307 J | NA | NA | NA | NA | NA | 0.715 | 0.158 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 9.3 |
| Chromium | 7.37 | 8.84 | NA | NA | NA | NA | NA | 9.38 | 15.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 400/1,500* |
| Lead | 8.2 | 20.4 | NA | NA | NA | NA | NA | 20.3 | 18.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 1,000 |
| Mercury | < | 0.04 J | NA | NA | NA | NA | NA | < | 0.02 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 2.8 |
| Selenium | 0.4 J | 0.627 J | NA | NA | NA | NA | NA | 0.198 J | 0.869 J | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NL | 1,500 |

CP-51 SCG = New York State Department of Environmental Conservation (NYSDEC) Commissioner Policy-51 (CP-51) Soil Cleanup Guidance (SCG) for Gasoline and Fuel Oil Contaminated Soils, Tables 2 and 3 (December 2010)

Part 375 Commercial Use SCOs = NYSDEC Part 375 Commercial Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

< = Not detected

NL = Not listed

NA = Not analyzed

ft bgs = Feet below the ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

* = Chromium, hexavalent/Chromium, trivalent (The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.)

B = The compound was found in the blank and sample.

**Table 2**

**11075 Walden Avenue**

**Alden, New York 14004**

**Contained-In Determination Work Plan**

**Summary of Groundwater Analytical Results**

**(Detected Analytes Only)**

| Sample ID | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | NYSDEC TOGS |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | 6/12/2017 | |
| **Volatile Organic Compounds (ug/L)** | | | | | | | | | | |
| Acetone | 18 | 110 | 18 | 63 | 58 | 76 | 62 | 47 | 30 | 50 |
| Benzene | 0.34 J | 0.34 J | 0.5 | 0.23 J | 0.38 J | 0.24 J | < | 0.28 J | 0.18 J | 1 |
| Carbon Disulfide | 1.3 J | 3 J | < | 1.8 J | 13 | < | < | 3.6 J | < | NL |
| Cyclohexane | < | < | 0.43 J | < | 0.41 J | < | < | < | < | NL |
| 2-Hexanone | < | < | < | < | < | < | 2 J | < | < | 50 |
| Methylcyclohexane | < | < | 0.63 J | < | < | < | < | < | < | NL |
| Methyl ethyl ketone (2-Butanone) | < | 27 | 4.2 J | 15 | 11 | 14 | 14 | 12 | 5.8 | 50 |
| Tetrachloroethene | 0.36 J | < | 0.31 J | < | < | < | < | 0.89 | < | 5 |
| Toluene | < | < | 0.75 J | < | < | < | < | < | < | 5 |

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

< = Not detected

NL = Not listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

ug/L = Micrograms per liter

Concentrations in gray exceed NYSDEC TOGS

# PHASE II ESA SUBSURFACE LOGS

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130
Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-1

Sheet 1 of 1
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17

TIME: 900 to 1000
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.3-1 | | 10" | 5.3 | 0.3' | No odors or staining | 0-0.3' Asphalt parking lot surface. |
| 1-2 | | 10" | 1.8 | 1' | " " | 0.3'-1' Brown Silty clay w/ trace gravel & concrete |
| 2-3 | | 10" | 1.4 | - | " " | 1'-5' Brownish Red Silty clay w/ trace gravel (HS, LP, MJ). |
| 3-4 | | 10" | 1.8 | - | " " | 5'-7' Brownish Red Silty clay w/ trace gravel (HP, MS, Sat) |
| 4-5 | | 10" | 0.7 | 5' | " " | 7'-12' Brownish Red Silty clay (HS, LP, MJ). |
| 5-6 | | 12" | 1.7 | - | " " | 12'-15' Brown Silty clay w/ trace gravel (LP, LS, Sat). |
| 6-7 | | 12" | 1.2 | 7' | " " | |
| 7-8 | | 12" | 2.1 | - | " " | |
| 8-9 | | 12" | 1.9 | - | " " | |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 12" | 0.8 | - | " " | |
| 11-12 | | 12" | 1.3 | 12' | " " | |
| 12-13 | | 12" | 1.2 | - | " " | |
| 13-14 | | 12" | 1.4 | - | " " | |
| 14-15 | | 12" | 1.1 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | YES | MW-1 |

NOTES:- GW @ 12'
- Fill material to 1'
- Tons of water in the well.

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-2

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1005 to 1100
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.3-1 | | 9.6" | 1.3 | 0.8' | No Staining or Odors | 0 -0.3' Asphalt Surface |
| 1-2 | | 9.6" | 0.9 | 1' | " " | 0.3'-1' Brown Silty clay |
| 2-3 | | 9.6" | 1.4 | - | " " | w/ trace gravel & rock |
| 3-4 | | 9.6" | 1.4 | - | " " | 1'-5' Brownish Red Silty clay |
| 4-5 | | 9.6" | 1.0 | 5' | " " | w/ trace gravel (MP, MS, wet |
| 5-6 | | 12" | 1.7 | - | " " | 5'- 9' Brownish Red Silty clay |
| 6-7 | | 12" | 2.1 | - | " " | (MP, MS, Sat). |
| 7-8 | | 12" | 2.2 | - | " " | 9'-15' Brownish Red Clay |
| 8-9 | | 12" | 1.7 | 9' | " " | (LP, HS, M). |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 10.8" | 1.8 | - | " " | |
| 11-12 | | 10.8" | 0.9 | - | " " | |
| 12-13 | | 10.8" | 1.3 | - | " " | |
| 13-14 | | 10.8" | 0.8 | - | " " | |
| 14-15 | | 10.8" | 1.8 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | NO | — |

NOTES: GW @ 5'
- Fill material to 1'

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-3

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1100 to 1200
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | - | - | - | - | 0-0.3' Asphalt surface<br>0.3'-0.6' Asphalt Subbase material [Angular Gravel]<br>0.6'-15' Brownish Red Silty Clay (LP, HS, M). |
| 1-2 | | - | - | - | - | |
| 2-3 | | - | - | - | - | |
| 3-4 | | - | - | - | - | |
| 4-5 | | - | - | - | - | |
| 5-6 | | 12" | 1.5 | - | No Staining or Odors | |
| 6-7 | | 12" | 1.7 | - | " " | |
| 7-8 | | 12" | 1.6 | - | " " | |
| 8-9 | | 12" | 1.6 | - | " " | |
| 9-10 | | 12" | 2.1 | - | " " | |
| 10-11 | | 12" | 2.0 | - | " " | |
| 11-12 | | 12" | 1.4 | - | " " | |
| 12-13 | | 12" | 1.4 | - | " " | |
| 13-14 | | 12" | 1.4 | - | " " | |
| 14+5 | | 12" | 1.1 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 12' | yes | MW-2 |

NOTES: No fill encountered
- GW not
- 0'-5' = No recovery

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-4

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1215 to 1380
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 6" | 0.8 | 0.3' | No staining or odors | 0-0.3' Asphalt Surface and subbase material (Angular gravel) |
| 1-2 | | 6" | 3.0 | - | " " | 0.3'-5' Brownish Red Silty clay (MP, MS, M). |
| 2-3 | | 6" | 2.6 | - | " " | |
| 3-4 | | 6" | 2.4 | - | " " | |
| 4-5 | | 6" | 2.8 | 5' | " " | 5'-15' Brownish Red Silty clay (MP, MS, Sat). |
| 5-6 | | 12" | 3.3 | - | " " | |
| 6-7 | | 12" | 3.1 | - | " " | |
| 7-8 | | 12" | 1.6 | - | " " | |
| 8-9 | | 12" | 2.4 | - | " " | |
| 9-10 | | 12" | 2.0 | - | " " | |
| 10-11 | | 12" | 3.0 | - | " " | |
| 11-12 | | 12" | 2.5 | - | " " | |
| 12-13 | | 12" | 2.2 | - | " " | |
| 13-14 | | 12" | 2.6 | - | " " | |
| 14-15 | | 12" | 2.5 | - | " " | |
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**GROUNDWATER ENCOUNTERED**

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 14.6 | Yes | MW-3 |

NOTES: -No fill material
-A lot of water in boring

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-5

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1480 to 1800
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 9.6" | 1.5 | 0.6' | NO Staining or odors | 0-0.6' Asphalt & Subbase material (Angular gravel). 0.6'-15' Brown Silty Clay (HS, LP, M). |
| 1-2 | | 9.6" | 1.8 | - | " " | |
| 2-3 | | 9.6" | 2.8 | - | " " | |
| 3-4 | | 9.6" | 3.3 | - | " " | |
| 4-5 | | 9.6" | 1.7 | - | " " | |
| 5-6 | | 12" | 3.2 | - | " " | |
| 6-7 | | 12" | 2.6 | - | " " | |
| 7-8 | | 12" | 2.1 | - | " " | |
| 8-9 | | 12" | 2.0 | - | " " | |
| 9-10 | | 12" | 2.6 | - | " " | |
| 10-11 | | 12" | 2.9 | - | " " | |
| 11-12 | | 12" | 2.7 | - | " " | |
| 12-13 | | 12" | 2.2 | - | " " | |
| 13-14 | | 12" | 1.6 | - | " " | |
| 14-15 | | 12" | 2.6 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | NO | — |

NOTES: - NO fill material
- NO GW encountered

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-6

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~1500~~ to 1545
DATUM:
START DATE: 6/8/17 END DATE: 6/8/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10" | 3.5 | 0.3' | No Staining or Odors | 0-0.3' Asphalt & Subbase material (angular gravel). |
| 1-2 | | 10" | 1.8 | - | " " | 0.3'-15' Brownish Red clay w/ trace gravel (HS, LP, M). |
| 2-3 | | 10" | 1.5 | - | " " | |
| 3-4 | | 10" | 1.8 | - | " " | |
| 4-5 | | 10" | 1.8 | - | " " | |
| 5-6 | | 12" | 3.1 | - | " " | |
| 6-7 | | 12" | 3.0 | - | " " | |
| 7-8 | | 12" | 3.4 | - | " " | |
| 8-9 | | 12" | 3.8 | - | " " | |
| 9-10 | | 12" | 4.5 | - | " " | |
| 10-11 | | 12" | 5.0 | - | " " | |
| 11-12 | | 12" | 3.6 | - | " " | |
| 12-13 | | 12" | 2.6 | - | " " | |
| 13-14 | | 12" | 2.8 | - | " " | |
| 14-15 | | 12" | 3.0 | - | " " | |
| | | | | | | |
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| | | | | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/8/17 | 15' | Yes | MW-4 |

NOTES: - Fill not encountered
- GW not encountered

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-7

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1700 to 1730
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | - | 1' | No Staining or odors | 0-1' Asphalt & Subbase material (Angular gravel). |
| 1-2 | | 12" | 2.6 | - | " " | |
| 2-3 | | 12" | 2.2 | - | " " | 1'-10' Brownish Red Silty Clay (MP, MS, M). |
| 3-4 | | 12" | 2.7 | - | " " | |
| 4-5 | | 12" | 2.8 | - | " " | |
| 5-6 | | 12" | 2.5 | - | " " | 10'-15' Brown Clay (MS, MP, M) |
| 6-7 | | 12" | 2.5 | - | " " | |
| 7-8 | | 12" | 1.5 | - | " " | |
| 8-9 | | 12" | 1.9 | - | " " | |
| 9-10 | | 12" | 2.1 | 10' | " " | |
| 10-11 | | 12" | 2.3 | - | " " | |
| 11-12 | | 12" | 2.4 | - | " " | |
| 12-13 | | 12" | 1.8 | - | " " | |
| 13-14 | | 12" | 1.9 | - | " " | |
| 14-15 | | 12" | 1.6 | - | " " | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-5 |

NOTES: Very tight clays
- NO GW encountered
- NO fall encountered

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300 Pearl Street, Suite 130
Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-8
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/8/17 END DATE: 6/8/17
TIME: 1730 to 1815
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 2.1 | 0.3' | No Staining or odors | 0-0.3' Asphalt and Subbase material (Angular gravel) |
| 1-2 | | 12" | 2.9 | - | " " | |
| 2-3 | | 12" | 3.1 | 3' | " " | 0.3'- 3' Brownish Black Silty clay (MP, MS, M). |
| 3-4 | | 12" | 2.6 | - | " " | |
| 4-5 | | 12" | 2.4 | - | " " | |
| 5-6 | | 12" | 2.1 | - | " " | 3'-15' Brownish Red Clay w/ trace gravel (HS, LP, M). |
| 6-7 | | 12" | 2.2 | - | " " | |
| 7-8 | | 12" | 1.9 | - | " " | |
| 8-9 | | 12" | 2.4 | - | " " | |
| 9-10 | | 12" | 2.1 | - | " " | |
| 10-11 | | 12" | 1.4 | - | " " | |
| 11-12 | | 12" | 1.8 | - | " " | |
| 12-13 | | 12" | 2.1 | - | " " | |
| 13-14 | | 12" | 2.0 | - | " " | |
| 14-15 | | 12" | 1.9 | - | " " | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-6 |

NOTES: - Very tight clays
- Refusal not encountered.

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130
Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-9

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~745~~ to 800
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10.8" | 3.7 | 0.6' | NO Staining or odors | 0-0.6' Concrete surface<br>0.6'-1' Brown Silty clay w/ trace gravel<br>1-5' Brown Silty clay (MP, MS, M)<br>5'-15' Brownish Red Silty clay w/ trace gravel (MP, MS, M). |
| 1-2 | | 10.8" | 3.4 | 1' | " " | |
| 2-3 | | 10.8" | 6.4 | - | " " | |
| 3-4 | | 10.8" | 5.4 | - | " " | |
| 4-5 | | 10.8" | 3.2 | 5' | " " | |
| 5-6 | | 12" | 3.8 | - | " " | |
| 6-7 | | 12" | 3.2 | - | " " | |
| 7-8 | | 12" | 3.8 | - | " " | |
| 8-9 | | 12" | 3.3 | - | " " | |
| 9-10 | | 12" | 3.2 | - | " " | |
| 10-11 | | 12" | 5.6 | - | " " | |
| 11-12 | | 12" | 5.1 | - | " " | |
| 12-13 | | 12" | 3.1 | - | " " | |
| 13-14 | | 12" | 3.9 | - | " " | |
| 14-15 | | 12" | 3.9 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: 18th boring inside Site Building

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-10

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 800 to 820
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 1.8 | 0.6' | No staining or odors | 0-0.6' Concrete Surface |
| 1-2 | | 7.2" | 1.9 | 1' | " " | 0.6'-1' Brown Silty Clay w/ trace gravel |
| 2-3 | | 7.2" | 2.5 | - | " " | 1'-15' Brownish Red Silty Clay w/ trace gravel (MP, MS, M). |
| 3-4 | | 7.2" | 2.0 | - | " " | |
| 4-5 | | 7.2" | 1.6 | - | " " | |
| 5-6 | | 12" | 2.6 | - | " " | |
| 6-7 | | 12" | 2.7 | - | " " | |
| 7-8 | | 12" | 2.0 | - | " " | |
| 8-9 | | 12" | 2.5 | - | " " | |
| 9-10 | | 12" | 1.8 | - | " " | |
| 10-11 | | 12" | 2.3 | - | " " | |
| 11-12 | | 12" | 2.1 | - | " " | |
| 12-13 | | 12" | 2.5 | - | " " | |
| 13-14 | | 12" | 2.5 | - | " " | |
| 14-15 | | 12" | 2.3 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: 10'-15' - there was some water in the Silts & Sand was under pressure. -NO fill encountered

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-11

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 830 to 845
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 2.4 | 0.6' | No Staining or Odors | 0-0.6' Concrete Surface<br>0.6'-2' Brown Silty Clay w/ trace gravel, brick, crushed concrete.<br>2'-9' Brownish Red Silty Clay (LPS, LP, M)<br>Refusal @ 9.1 |
| 1-2 | | 12" | 3.8 | 2' | " " | |
| 2-3 | | 12" | 2.2 | - | " " | |
| 3-4 | | 12" | 1.6 | - | " " | |
| 4-5 | | 12" | 1.4 | - | " " | |
| 5-6 | | 12" | 2.1 | - | " " | |
| 6-7 | | 12" | 1.8 | - | " " | |
| 7-8 | | 12" | 2.4 | - | " " | |
| 8-9 | | 12" | 2.3 | 9' | " " | |
| 9-10 | | 12" | 2.2 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 9.1 | NO | - |

NOTES: * Brick / concrete chunch at bottom of core.
- Fill to 2'

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-12
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
TIME: ~~8~~ 45 to 900
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 9.6" | 4.8 | 0.6' | No Staining or Odors | 0-0.6' Concrete Surface |
| 1-2 | | 9.6" | 3.3 | 2' | " " | 0.6-2' Brown Silty Clay w/ trace gravel, brick, crushed concrete. |
| 2-3 | | 9.6" | 2.2 | - | " " | 2'-15' Brownish Red Silty Clay w/ trace gravel (MP, MS, M). |
| 3-4 | | 9.6" | 2.0 | - | " " | |
| 4-5 | | 9.6" | 1.2 | - | " " | |
| 5-6 | | 12" | 1.3 | - | " " | |
| 6-7 | | 12" | 1.8 | - | " " | |
| 7-8 | | 12" | 2.3 | - | " " | |
| 8-9 | | 12" | 2.5 | - | " " | |
| 9-10 | | 12" | 2.5 | - | " " | |
| 10-11 | | 12" | 1.9 | - | " " | |
| 11-12 | | 12" | 1.8 | - | " " | |
| 12-13 | | 12" | 2.3 | - | " " | |
| 13-14 | | 12" | 1.9 | - | " " | |
| 14-15 | | 12" | 1.8 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | - |

NOTES: Fill to 2'
very tight clays

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-13
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
TIME: 1055 to 1100
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 1.2 | 0.3' | NO staining or odors | 0-0.3' Grass surface & topsoil |
| 1-2 | | 7.2" | 1.3 | - | " " | 0.3'-4' Brownish Black silty clay (LP, LS, wet). |
| 2-3 | | 7.2" | 1.8 | - | " " | |
| 3-4 | | 7.2" | 1.4 | 4' | " " | 4'-5' Brown silty clay w/ trace gravel |
| 4-5 | | 7.2" | 1.6 | 5' | " " | |
| 5-6 | | 1" | - | - | " " | 5.1 - Hit refusal. Rock in bottom of core. |

| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| 6/9/17 | 5.1 | NO | - |

NOTES: - will move north 4-5' and try again.

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-18A

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski START DATE: END DATE:

TIME: 1100 to 1145
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 7.2" | 0.0 | 0.3' | No Stain or odors | 0-0.3'- Grass and topsoil |
| 1-2 | | 7.2" | 0.0 | - | " " | 0.3'-4' Brownish Black Silty |
| 2-3 | | 7.2" | 0.0 | - | " " | Clay (MP, MS, Wet). |
| 3-4 | | 7.2" | 0.0 | 4' | " " | 4'-6' Brownish Red Silty |
| 4-5 | | 7.2" | 0.0 | - | " " | Clay (MP, MS, Wet). |
| 5-6 | | 12" | 0.0 | 6' | " " | 6'-15' Brownish Red Silty |
| 6-7 | | 12" | 0.0 | - | " " | Clay (LP, HS, M). |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-7 |

NOTES:
- Very tight clays - Macro core was overpacking.

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-14
Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski
START DATE: 6/9/17 END DATE: 6/9/17
TIME: 1215 to 1245
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 10.0" | 0.0 | 0.6' | No staining or odors | 0-0.6' Grass surface & topsoil. |
| 1-2 | | 10" | 0.0 | - | " " | |
| 2-3 | | 10" | 0.0 | - | " " | 0.6'-9' Brownish Red Silty Clay w/ trace gravel. (HS, LP, M) |
| 3-4 | | 10" | 0.0 | - | " " | |
| 4-5 | | 10" | 0.0 | - | " " | |
| 5-6 | | 10.2" | 0.0 | - | " " | |
| 6-7 | | 10.2" | 0.0 | - | " " | 9'-10.5' Brownish Red Silty Clay w/ trace gravel (MP, MS, wet). |
| 7-8 | | 10.2" | 0.0 | - | " " | |
| 8-9 | | 10.2" | 0.0 | 9' | " " | |
| 9-10 | | 10.2" | 0.0 | 10' | " " | 10.5'-15' Brownish Red Silty Clay w/ trace gravel (LP, HS, M) |
| 10-11 | | 12" | 0.0 | 10.5' | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | Yes | MW-8 |

NOTES: - Fill not encountered.
- GW encountered @ 10'

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**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-15

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: 1300 to 1330
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 11.2" | 0.0 | 0.3' | No Staining or Odors | 0-0.3' Grass and topsoil<br>0.3'-15' Brownish Red silty clay w/ trace gravel. (MP, MS, M) |
| 1-2 | | 11.2" | 0.0 | - | " " | |
| 2-3 | | 11.2" | 0.0 | - | " " | |
| 3-4 | | 11.2" | 0.0 | - | " " | |
| 4-5 | | 11.2" | 0.0 | - | " " | |
| 5-6 | | 12" | 0.0 | - | " " | |
| 6-7 | | 12" | 0.0 | - | " " | |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | NO | — |

NOTES: -very tight clays

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Buffalo, NY 14202

**TEST BORING LOG**

Phase II ESA
11075 Walden Avenue
Lancaster, New York

**BORING:** SB-16

Sheet 1 of
**JOB:**
Checked by:

CONTRACTOR: LaBella LLC
DRILLER: M. Windrel Jr.
LABELLA REPRESENTITIVE: J Dombrowski

TIME: ~~1245~~ to
DATUM:
START DATE: 6/9/17 END DATE: 6/9/17

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0-1 | | 12" | 0.0 | 0.6' | No staining or odors | 0-0.6' Grass & topsoil<br>0.6'-3' Brownish Red Silty Clay (LP, MS, wet)<br>3'-15' Brownish Red Silty Clay w/ trace gravel (HS, LP, M). |
| 1-2 | | 12" | 0.0 | - | " " | |
| 2-3 | | 12" | 0.0 | 3' | " " | |
| 3-4 | | 12" | 0.0 | - | " " | |
| 4-5 | | 12" | 0.0 | - | " " | |
| 5-6 | | 12" | 0.0 | - | " " | |
| 6-7 | | 12" | 0.0 | - | " " | |
| 7-8 | | 12" | 0.0 | - | " " | |
| 8-9 | | 12" | 0.0 | - | " " | |
| 9-10 | | 12" | 0.0 | - | " " | |
| 10-11 | | 12" | 0.0 | - | " " | |
| 11-12 | | 12" | 0.0 | - | " " | |
| 12-13 | | 12" | 0.0 | - | " " | |
| 13-14 | | 12" | 0.0 | - | " " | |
| 14-15 | | 12" | 0.0 | - | " " | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| 6/9/17 | 15' | yes | MW-9 |

NOTES:

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-17**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 8:35 to 9:40
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 6 | 158 | | No odors or staining | 0-0.6 concrete slab |
| 2-4 | | 6 | 27 | | No odors or staining | 0.6-2 brown clay silt (m,m) |
| 4-6 | | 24 | 59 | | No odors or staining | 2-4 gray clay silt (m, m) |
| 6-8 | | 24 | 20.2 | | No odors or staining | 4-6 brown gray clay silt (m,m) |
| 8-10 | | 22 | 40.3 | | No odors or staining | 6-8 red brown clay silt (m,m) |
| 10-12 | | 22 | 57.2 | | No odors or staining | 8-12 red brown clay (l, stiff, m) |
| 12-14 | | 24 | 8.9 | | Metallic odor No staining | 12-16 gray clay (m,stiff,m) |
| 14-16 | | 24 | 31.2 | | | |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Sample collected at 0.6-2 ft bgs and 14-16 ft bgs

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300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-18**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 9:45 to 10:35
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 10 | 4.4 | | No odors or staining | 0-0.6 concrete slab |
| 2-4 | | 10 | 4.4 | | No odors or staining | 0.6-1 white grey gravel fill |
| 4-6 | | 24 | 2.6 | | No odors or staining | 1-4 brown clay silt (m,m) |
| 6-8 | | 24 | 4.3 | | No odors or staining | 2-4 gray clay silt (m, m) |
| 8-10 | | 24 | 5.9 | | No odors or staining | 4-12 red brown clay (m, stiff, m) |
| 10-12 | | 24 | 8.2 | | No odors or staining | 12-16 Brown clay (m,stiff,m) |
| 12-14 | | 24 | 10 | | No odors or staining | |
| 14-16 | | 24 | 4.7 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
| | | | |

NOTES:
Sample collected at 12-14 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-19**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 13:40 to 14:54
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 0.9 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 20 | 0.7 | | No odors or staining | 0.2-4 brown red clay silt (m,m) |
| 4-6 | | 24 | 1.4 | | No odors or staining | 4-8 brown red clay ( m, stiff, m) |
| 6-8 | | 24 | 1.2 | | No odors or staining | 8-16 brown clay (m, stiff, m) |
| 8-10 | | 24 | 1.1 | | No odors or staining | |
| 10-12 | | 24 | 0.4 | | No odors or staining | |
| 12-14 | | 24 | 0.9 | | No odors or staining | |
| 14-16 | | 24 | 1.8 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Sample collected at 14-16 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-20**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 15:05 to 15:50
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 24 | 0.3 | | No odors or staining | 0-0.2 grass<br>0.2-4 brown clay (m, stiff, m)<br><br>4-6 brownish red clay (m, stiff, m)<br><br>6-8 brown gray red clay (m, stiff, m)<br><br>8-10 brown red clay (m, stiff, m)<br><br>10-12 gray brown clay (m, stiff, m)<br><br>12-16 brown red clay (m, stiff, m) |
| 2-4 | | 24 | 0.5 | | No odors or staining | |
| 4-6 | | 24 | 0 | | No odors or staining | |
| 6-8 | | 24 | 0 | | No odors or staining | |
| 8-10 | | 24 | 1.6 | | No odors or staining | |
| 10-12 | | 24 | 1.0 | | No odors or staining | |
| 12-14 | | 24 | 0 | | No odors or staining | |
| 14-16 | | 24 | 0 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Sample collected at 8-10 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-21**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 16:00 to 17:15
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 24 | 1.8 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 24 | 1 | | No odors or staining | 0.2-0.8 brown black clay silt (m, m) |
| 4-6 | | 22 | 0.4 | | No odors or staining | 0.8-2 brown red clay silt (m, m) |
| 6-8 | | 22 | 0.2 | | No odors or staining | 2-4 brown gray clay (m, stiff, m) |
| 8-10 | | 24 | 0 | | No odors or staining | 4-6 brown orange clay (m, stiff, m) |
| 10-12 | | 24 | 0 | | No odors or staining | 6-7 gray clay (m, stiff, m) |
| 12-14 | | 24 | 0.9 | | No odors or staining | 7-8 brown red clay (m, stiff, m) |
| 14-16 | | 24 | 1.2 | | No odors or staining | 8-10 brown gray clay (m, stiff, m) |
| | | | | | | 10-12 brown red clay (m, stiff, m) |
| | | | | | | 12-14 gray clay (m, m, m) |
| | | | | | | 14-16 gray clay (m, wet, m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Sample collected at 14-16 ft bgs
Rained at 16:52

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue,
Alden, New York

**BORING: SB-22**

Sheet 1 of 1
**JOB:** 2171935
Checked by:

CONTRACTOR: Nature's Way
DRILLER:
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 8/7/17
END DATE: 8/7/17
TIME: 17:35 to 18:00
DATUM:

TYPE OF DRILL RIG:
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (FT) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY | PID FIELD SCREEN (PPM) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 2.1 | | No odors or staining | 0-0.2 grass |
| 2-4 | | 20 | 0.7 | | No odors or staining | 0.2-2 brown red clay silt (m, m) |
| 4-6 | | 24 | 2.1 | | No odors or staining | 2-4 brown gray clay (m, stiff, m) |
| 6-8 | | 24 | 1 | | No odors or staining | 4-6 red brown clay silt (m,m) |
| 8-10 | | 24 | 0.9 | | No odors or staining | 6-12 brown clay mixed with gravel (m, stiff, m) |
| 10-12 | | 24 | 0.5 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Refusal at 12 ft bgs

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-23**

Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 10:45 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 1.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 0.1 | | No odors or staining | 0.-6-2 brown clay mixed with gravel (m,m,m) |
| 4-6 | | 24 | 0.1 | | No odors or staining | 2-6 brown clay (l,st,m) |
| 6-8 | | 24 | 0.3 | | No odors or staining | 6-10 brown red clay (l,st,m) |
| 8-10 | | 16 | 0.3 | | No odors or staining | 10-11 brown clay (l,st,m) |
| 10-11 | | 16 | 0.1 | | No odors or staining | |
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| GROUNDWATER ENCOUNTERED | | | |
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| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Refusal @ 11 ft due to laminated clays
Sample collected at 0.6-2 ft

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-24**

Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 11:30 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 12 | 13.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 12 | 2.8 | | No odors or staining | 0.-6-2 brown clay mixed with gravel (m,m,m) |
| 4-6 | | 24 | 3.0 | | No odors or staining | 2-4 brown clay (l,st,m) |
| 6-8 | | 24 | 12.4 | | No odors or staining | 4-9.1 brown red clay (l,st,m) |
| 8-9.1 | | 12 | 2.2 | | No odors or staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Refusal @ 9.1 ft due to laminated clays
Sample collected at 0.6-2 ft

LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-25**
Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 12:00 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 20 | 942 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 20 | 3,674 | | Strong solvent odor, no staining | 0.-6-2 brown clay mixed with gravel (m,m,m)<br>2-4 gray clay silt (m,m) |
| 4-6 | | 24 | 524 | | Strong solvent odor, no staining | 4-4.5 gray clay (l,st,m)<br>4.5-7.9 brown red clay (l,st,m) |
| 6-7.9 | | 23 | 275 | | Strong solvent odor, no staining | |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Refusal @ 7.9 ft due to laminated clays
Sample collected at 0.6-2 ft and 2-4 ft

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LABELLA Associates | Engineering Architecture Environmental Planning

300 Pearl Street, Suite 130

**TEST BORING LOG**

Phase II ESA

11075 Walden Avenue, Alden, New York

**BORING: SB-26**
Sheet 1 of 1
**JOB:** 217935
Checked by:

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 12:55 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 46.1 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 6.2 | | No odors or staining | 0.-6-2 gray clay silt mixed with gravel (m,m,m) |
| 4-6 | | 20 | 15.4 | | No odors or staining | 2-4 gray clay (l,st,m) |
| 6-8 | | 20 | 10.2 | | No odors or staining | 4-8 red brown clay (l,st,m) |
| 8-8.7 | | 7 | 1.7 | | No odors or staining | 8-8.7 gray brown clay (l,st,m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Refusal @ 8.7 ft due to laminated clays
Sample collected at 0.6-2 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-27**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 13:45 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 4.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 4.6 | | No odors or staining | 0.-6-2 brown gray clay silt mixed with gravel (m,m) |
| 4-6 | | 24 | 15.1 | | No odors or staining | 2-4 brown clay (l,st,m) |
| 6-7.8 | | 24 | 4.2 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
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GROUNDWATER ENCOUNTERED

| DATE | DEPTH | WELL INSTALLED | WELL ID |
|---|---|---|---|
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NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 4-6 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-28**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 14:10 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 18 | 6.2 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 18 | 4.6 | | No odors or staining | 0.-6-4 brown clay silt mixed with gravel (m,m) |
| 4-6 | | 23 | 1.7 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
| 6-7.8 | | 23 | 1.2 | | No odors or staining | |
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| GROUNDWATER ENCOUNTERED | | | |
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| DATE | DEPTH | WELL INSTALLED | WELL ID |
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NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 0.6-2 ft

| LABELLA Associates — Engineering Architecture Environmental Planning<br>300 Pearl Street, Suite 130 | **TEST BORING LOG**<br>Phase II ESA<br>11075 Walden Avenue, Alden, New York | **BORING: SB-28**<br>Sheet 1 of 1<br>**JOB:** 217935<br>Checked by: |
|---|---|---|

CONTRACTOR: LaBella Envir. LLC
DRILLER: Matt Pepe
LABELLA REPRESENTITIVE: Shannon Dalton
START DATE: 10/5/17 END DATE: 10/5/17
TIME: 15:40 to
DATUM:

TYPE OF DRILL RIG: 54 LT
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push
DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~
OTHER:

| DEPTH (Feet) | BLOW COUNT | SAMPLE | | | REMARKS | VISUAL CLASSIFICATION |
|---|---|---|---|---|---|---|
| | | SAMPLE RECOVERY (Inches) | PID FIELD SCREEN (Parts per million) | STRATA CHANGE | | |
| 0.6-2 | | 15 | 4.4 | | No odors or staining | 0-0.6 – concrete slab |
| 2-4 | | 15 | 3.8 | | No odors or staining | 0.-6-1 brown clay silt mixed with gravel (m,m) |
| 4-6 | | 24 | 1.7 | | No odors or staining | 1-4 brown gray clay (l,st,m) |
| 6-7.8 | | 24 | 1.4 | | No odors or staining | 4-7.8 brown red clay (l,st,m) |
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| GROUNDWATER ENCOUNTERED | | | |
|---|---|---|---|
| DATE | DEPTH | WELL INSTALLED | WELL ID |
| | | | |

NOTES:
Refusal @ 7.8ft due to laminated clays
Sample collected at 0.6-2 ft

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

**Division of Materials Management, Bureau of Hazardous Waste and Radiation Management**
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

June 21, 2019

Mr. Chris Kibler
Project Manager
LaBella Associates
300 Pearl Street, Suite 130
Buffalo, NY 14202

RE: "Contained-In Determination" Request
11075 Walden Avenue, Alden, New York
BCP Site #C915333

Dear Mr. Kibler:

We have completed our review of the soil sampling data (Lab Sample ID: L1923828-01, L1923828-02 and L1923828-04) submitted with your June 10, 2019, request for a "contained-in" determination for the referenced project.

Concentrations detected for individual VOCs were all significantly less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. Most of the individual VOCs were not detected above the detection limit. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations for tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and 1,2-dichloroethene, Total detected in all soil samples (L1923828-01 and L1923828-02) were below the soil "contained-in" action level, the Land Disposal Restriction concentration. Therefore, Stockpiles 1 and 2, do not have to be managed as hazardous waste and can be transported off-site to a permitted solid waste landfill with liner and leachate collection system, for proper disposal as non-hazardous waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Environmental Engineer
RCRA Permit Section

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: A. Lopes, DER Region 9

# Contained-In Determination
# AOC #2

Location:

## BCP Site #C915333
## 11075 Walden Avenue
## Alden, New York

Prepared for:

## Walden Realty Limited Partnership/Doritex Corp.
## 11980 Walden Avenue
## Alden, New York

LaBella Project No. 2180605

June 10, 2019

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282
www.labellapc.com

# Table of Contents

1.0 INTRODUCTION ..... 1
2.0 SUMMARY OF INVESTIGATION ..... 1
3.0 CONTAINED-IN REQUEST ..... 2

**Figures** Figure 1 – Site Location Map
Figure 2 – Contained-In Sampling Locations

**Tables** Table 1 – Summary of Contained-In Determination Stockpile Soil Analytical Results

**Appendix 1** Laboratory Report

## 1.0 INTRODUCTION

LaBella Associates D.P.C. ("LaBella") prepared this "Contained-In" Determination Report on behalf of Walden Realty Limited Partnership and Doritex Corp. (collectively, the "Client") for the property addressed as 11075 Walden Avenue, in the Town of Alden, Erie County, New York, hereinafter referred to as the "Site." It is the Client's intention to sell the Site for future potential commercial use (i.e. warehouse). The Site currently includes the Site Building located on the middle portion of the Site, asphalt-paved parking (impervious surfaces) located east and south of the Site Building, and greenspace located north and west of the Site Building and to the south beyond the asphalt-paved parking lot. A Site Location Map is included as Figure 1. The Site was recently accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) under a "Participant" status (Site #C915333).

This "Contained-In" Determination report is being submitted to address soil waste which was generated during the implementation of interim remedial measures (IRMs) at the Site associated with Area of Concern (AOC) #2 (chlorinated solvent volatile organic compound (cVOC)-impacted soil). Such includes information on soil sampling and laboratory analysis completed at the Site as detailed and authorized by the NYSDEC, in the Contained-In Determination Work Plan prepared by LaBella dated April 4, 2019; and subsequent email correspondence between the NYSDEC and LaBella, dated April 18, 2019. This document was prepared in accordance with the "Contained-In" Criteria identified in NYSDEC Technical and Administrative Guidance Memorandum 3028.

## 2.0 SUMMARY OF INVESTIGATION

Soil was excavated from the limits of AOC #2 and separated into four piles, east exterior the Site Building, between May 29, and June 5, 2019. The approximate limits of the IRM excavation and locations of the soil stockpiles is depicted in Figure 2. Based on previous soil laboratory data submitted by LaBella and subsequently reviewed by the NYSDEC, soil collected from within the confines of the IRM excavation from approximately 0-2 feet below the ground surface (ft bgs) in the vicinity of previously-advanced soil borings SB-17, SB-24, and SB-25 was staged separately, and will be disposed of as hazardous waste. Soil generated from the remainder of the IRM excavation was segregated into three separate piles (Stockpiles 1 through 3) and is the subject of this "Contained-In" Determination Report.

Based on the anticipated volume of material which was generated during IRM activities and in comparison to NYSDEC, Division of Environmental Remediation-10 Table 5.4(e)10 *"Recommended Number of Soil Samples for Soil Imported To or Exported From a Site,"* the following samples were collected and placed in a cooler on ice, and sent under standard chain of custody procedures to Alpha Analytical in Westborough, Massachusetts.

| Sample ID | Sample Depth (ft bgs) | Laboratory Analyses |
|---|---|---|
| Stockpile 1 | 2.5 | - TCL VOCs<br>- TCLP VOCs |
| Stockpile 2 | 3 | |
| Stockpile 3 | 2 | |
| Stockpile Composite | Not applicable | - TCLP SVOCS and metals, flashpoint, reactivity and corrosivity |

TCL VOCs = Target Compound List (TCL) volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260
TCLP VOCs = Toxicity Characteristic Leaching Procedure (TCLP) Total VOCS using USEPA Method 1311
TCLP SVOCS and metals, flashpoint, reactivity and corrosivity = TCLP semi-volatile organic compounds (SVOCs) and metals using USEPA Method 1311, flashpoint using USEPA Method 1030, reactivity using USEPA Method 7.3 and corrosivity using USEPA Method 9045

Laboratory soil analytical results for the soil samples collected and submitted for laboratory analysis are summarized in Table 1.

## 3.0 CONTAINED-IN REQUEST

This "Contained-In" Determination Report is being submitted to address soil waste generated during the implementation of the IRM at the Site associated with AOC #2 (cVOC-impacted soil). Per the contents of LaBella's IRM Work Plan, it was anticipated that approximately 200 tons of cVOC-impacted soil would be excavated for proper disposal off-site. LaBella respectively requests on behalf of its Client, for the NYSDEC to review the results contained herein, and the NYSDEC comment regarding the extent and/or limits of soil that can disposed of as non-hazardous waste amongst Stockpiles 1 through 3, versus soil requiring disposal as hazardous waste. While a specific facility has yet to be selected for non-hazardous and hazardous waste disposal; it is intended that non-hazardous soil generated as a result of IRM activities will be transported/disposed of at a locally-permitted waste disposal facility which operates with a 6 NYCRR Part 360 Permit. In addition, hazardous soil will be transported to an appropriate facility which accepts hazardous waste for disposal.

If you have any questions please do not hesitate to contact me at (716) 768-4906.

Sincerely,

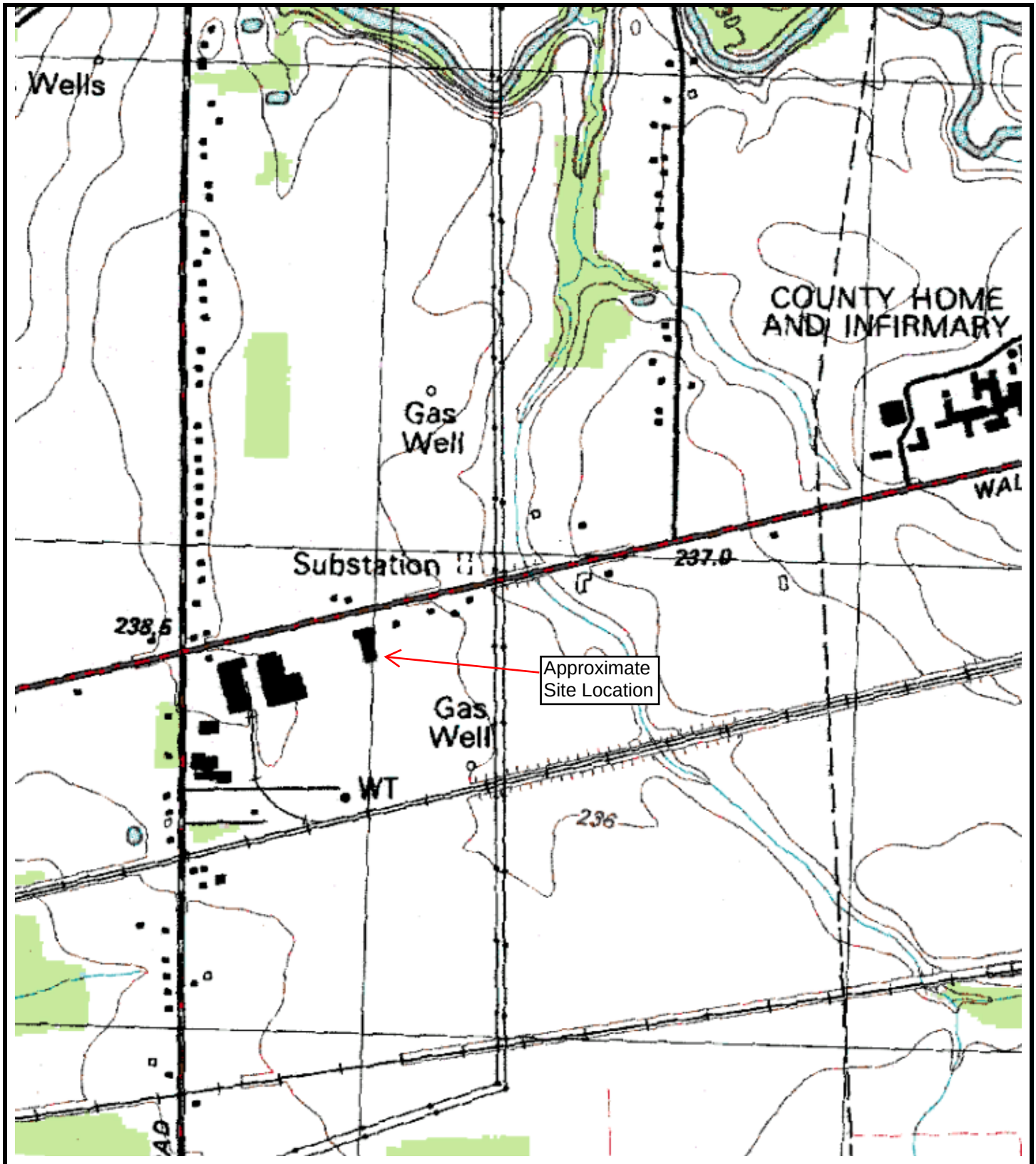
LABELLA ASSOCIATES, D.P.C.

| | |
|---|---|
| Chris Kibler<br>Project Manager<br>Environmental Professional | Shannon Dalton<br>Environmental Analyst |

J:\WALDEN REALTY\2180605 - 11075 WALDEN AVE BCP\REPORTS\CONTAINED-IN DETERMINATION\REPORT\DORITEX_CONTAINED IN REPORT.DOCX

LaBella
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# FIGURES




N

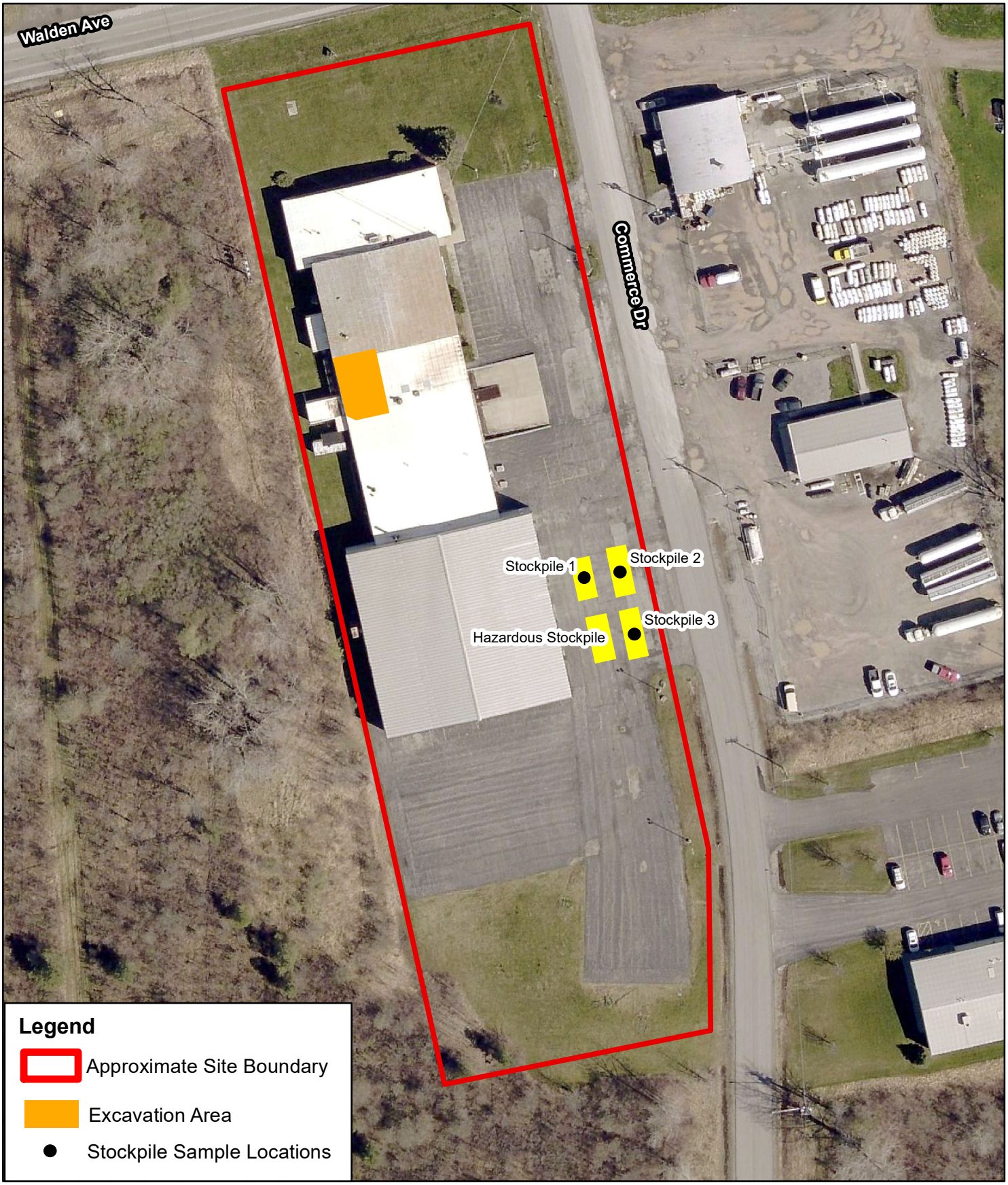
NOT TO SCALE

# FIGURE 1
## SITE LOCATION MAP

11075 Walden Avenue
Alden, New York

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PROJECT NO. 2180605




Path: J:\Walden Realty\2180605 - 11075 Walden Ave BCP\Reports\Contained-In Determination\Report\Figures\Map.2019.6.10.Fig2.Contained In Map.mxd

PROJECT #/DRAWING #/DATE:

2180605

FIGURE 2

6/10/2019

DRAWING TITLE

CONTAINED-IN SAMPLING LOCATIONS

PROJECT:

CONTAINED-IN DETERMINATION

11075 WALDEN AVENUE
ALDEN, NEW YORK

N
W E
S

0 25 50 Feet

1 inch = 83 feet

INTENDED TO PRINT AS: 8.5" X 11"

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LaBella
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# TABLES

Table 1

BCP Site #C915333

11075 Walden Avenue

Alden, New York

Contained-In Determination Report

Summary of Stockpile Soil Results

(Detected Analytes Only)

| Sample ID | Stockpile 1 | Stockpile 2 | Stockpile 3 | Stockpile Composite |
|---|---|---|---|---|
| Sample Date | 6/5/2019 | 6/5/2019 | 6/5/2019 | 6/5/2019 |
| Volatile Organic Compounds (µg/kg) | | | | |
| Bromomethane | 52 J | 59 J | < | NA |
| cis-1,2-Dichloroethene | 560 | 470 | 230 | NA |
| trans-1,2-Dichloroethene | 28 J | < | < | NA |
| 1,2 -Dichloroethene | 590 J | 470 | 230 | NA |
| Tetrachloroethene | 6,700 | 3,900 | 14,000 | NA |
| Trichloroethene | 440 | 490 | 130 | NA |
| 1,2,4-Trimethylbenzene | 23 J | < | < | NA |
| 1,3,5-Trimethylbenzene | 12 J | < | < | NA |
| TCLP Volatile Organic Compounds (µg/L) | | | | |
| Tetrachloroethene | 23 | 150 | 260 | NA |
| Trichloroethene | < | 3.7 J | 3.5 J | NA |
| TCLP Semi-Volatile Organic Compounds (µg/L) | | | | |
| Total SVOCs | NA | NA | NA | < |
| TCLP Metals (mg/L) | | | | |
| Arsenic | NA | NA | NA | 0.021 J |
| Barium | NA | NA | NA | 0.457 J |
| Chromium | NA | NA | NA | 0.023 J |
| Other | | | | |
| Flashpoint (degrees f) | NA | NA | NA | NI |
| pH (SU) | NA | NA | NA | 10.7 |
| Cyanide reactive (mg/kg) | NA | NA | NA | < |
| Sulfide reactive (mg/kg) | NA | NA | NA | < |

< = Not detected

NI = Not ignitable

NA = Not analyzed

ug/kg = Micrograms per kilogram

µg/L = Micrograms per liter

mg/L = miligrams per liter

f = Fahrenheit

SU = Standard units

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

# APPENDIX 1

Laboratory Report

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1923828 |
| Client: | LaBella Associates, P.C.<br>300 Pearl Street<br>Suite 252<br>Buffalo, NY 14202 |
| ATTN: | Adam Zebrowski |
| Phone: | (716) 551-6281 |
| Project Name: | 11075 WALDEN AVE |
| Project Number: | 2180605 |
| Report Date: | 06/07/19 |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1923828-01 | STOCKPILE 1 | SOIL | 11075 WALDEN AVE. ALDEN, NY | 06/05/19 12:50 | 06/05/19 |
| L1923828-02 | STOCKPILE 2 | SOIL | 11075 WALDEN AVE. ALDEN, NY | 06/05/19 13:00 | 06/05/19 |
| L1923828-03 | STOCKPILE 3 | SOIL | 11075 WALDEN AVE. ALDEN, NY | 06/05/19 13:10 | 06/05/19 |
| L1923828-04 | STOCKPILE COMPOSITE | SOIL | 11075 WALDEN AVE. ALDEN, NY | 06/05/19 13:20 | 06/05/19 |

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVE | **Lab Number:** | L1923828 |
| **Project Number:** | 2180605 | **Report Date:** | 06/07/19 |

## Case Narrative

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

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

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

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

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

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

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVE | **Lab Number:** | L1923828 |
| **Project Number:** | 2180605 | **Report Date:** | 06/07/19 |

**Case Narrative (continued)**

Report Submission

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

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

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 06/07/19

# ORGANICS

# VOLATILES

**Project Name:** 11075 WALDEN AVE
**Lab Number:** L1923828
**Project Number:** 2180605
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-01
Client ID: STOCKPILE 1
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 12:50
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/07/19 08:35
Analyst: MM
Percent Solids: 85%
TCLP/SPLP Ext. Date: 06/06/19 15:07

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **TCLP Volatiles by EPA 1311 - Westborough Lab** | | | | | | |
| Chloroform | ND | | ug/l | 7.5 | 2.2 | 10 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 | 10 |
| Tetrachloroethene | 23 | | ug/l | 5.0 | 1.8 | 10 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 | 10 |
| Benzene | ND | | ug/l | 5.0 | 1.6 | 10 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 | 10 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 | 10 |
| Trichloroethene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 1.9 | 10 |
| 2-Butanone | ND | | ug/l | 50 | 19. | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| dibromofluoromethane | 99 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-01
Client ID: STOCKPILE 1
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 12:50
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/06/19 12:29
Analyst: JC
Percent Solids: 85%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 220 | 100 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 44 | 6.3 | 1 |
| Chloroform | ND | | ug/kg | 66 | 6.1 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 44 | 10. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 44 | 5.5 | 1 |
| Dibromochloromethane | ND | | ug/kg | 44 | 6.1 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 44 | 12. | 1 |
| Tetrachloroethene | 6700 | | ug/kg | 22 | 8.6 | 1 |
| Chlorobenzene | ND | | ug/kg | 22 | 5.6 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 180 | 30. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 44 | 11. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 22 | 7.3 | 1 |
| Bromodichloromethane | ND | | ug/kg | 22 | 4.8 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 44 | 12. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 22 | 6.9 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 22 | 6.9 | 1 |
| Bromoform | ND | | ug/kg | 180 | 11. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 22 | 7.3 | 1 |
| Benzene | ND | | ug/kg | 22 | 7.3 | 1 |
| Toluene | ND | | ug/kg | 44 | 24. | 1 |
| Ethylbenzene | ND | | ug/kg | 44 | 6.2 | 1 |
| Chloromethane | ND | | ug/kg | 180 | 41. | 1 |
| Bromomethane | 52 | J | ug/kg | 88 | 25. | 1 |
| Vinyl chloride | ND | | ug/kg | 44 | 15. | 1 |
| Chloroethane | ND | | ug/kg | 88 | 20. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 44 | 10. | 1 |
| trans-1,2-Dichloroethene | 28 | J | ug/kg | 66 | 6.0 | 1 |
| Trichloroethene | 440 | | ug/kg | 22 | 6.0 | 1 |

**Project Name:** 11075 WALDEN AVE **Lab Number:** L1923828

**Project Number:** 2180605 **Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-01 Date Collected: 06/05/19 12:50

Client ID: STOCKPILE 1 Date Received: 06/05/19

Sample Location: 11075 WALDEN AVE. ALDEN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 88 | 6.3 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 88 | 6.5 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 88 | 7.5 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 88 | 8.8 | 1 |
| p/m-Xylene | ND | | ug/kg | 88 | 24. | 1 |
| o-Xylene | ND | | ug/kg | 44 | 13. | 1 |
| Xylenes, Total | ND | | ug/kg | 44 | 13. | 1 |
| cis-1,2-Dichloroethene | 560 | | ug/kg | 44 | 7.7 | 1 |
| 1,2-Dichloroethene, Total | 590 | J | ug/kg | 44 | 6.0 | 1 |
| Styrene | ND | | ug/kg | 44 | 8.6 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 440 | 40. | 1 |
| Acetone | ND | | ug/kg | 440 | 210 | 1 |
| Carbon disulfide | ND | | ug/kg | 440 | 200 | 1 |
| 2-Butanone | ND | | ug/kg | 440 | 97. | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 440 | 56. | 1 |
| 2-Hexanone | ND | | ug/kg | 440 | 52. | 1 |
| Bromochloromethane | ND | | ug/kg | 88 | 9.0 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 44 | 12. | 1 |
| n-Butylbenzene | ND | | ug/kg | 44 | 7.3 | 1 |
| sec-Butylbenzene | ND | | ug/kg | 44 | 6.4 | 1 |
| tert-Butylbenzene | ND | | ug/kg | 88 | 5.2 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 130 | 44. | 1 |
| Isopropylbenzene | ND | | ug/kg | 44 | 4.8 | 1 |
| p-Isopropyltoluene | ND | | ug/kg | 44 | 4.8 | 1 |
| Naphthalene | ND | | ug/kg | 180 | 28. | 1 |
| n-Propylbenzene | ND | | ug/kg | 44 | 7.5 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 88 | 14. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 88 | 12. | 1 |
| 1,3,5-Trimethylbenzene | 12 | J | ug/kg | 88 | 8.4 | 1 |
| 1,2,4-Trimethylbenzene | 23 | J | ug/kg | 88 | 15. | 1 |
| Methyl Acetate | ND | | ug/kg | 180 | 42. | 1 |
| Cyclohexane | ND | | ug/kg | 440 | 24. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 3500 | 1500 | 1 |
| Freon-113 | ND | | ug/kg | 180 | 30. | 1 |
| Methyl cyclohexane | ND | | ug/kg | 180 | 26. | 1 |

**Project Name:** 11075 WALDEN AVE
**Lab Number:** L1923828
**Project Number:** 2180605
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-01
Client ID: STOCKPILE 1
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 12:50
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-02
Client ID: STOCKPILE 2
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:00
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/07/19 09:09
Analyst: MM
Percent Solids: 82%
TCLP/SPLP Ext. Date: 06/06/19 15:07

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **TCLP Volatiles by EPA 1311 - Westborough Lab** | | | | | | |
| Chloroform | ND | | ug/l | 7.5 | 2.2 | 10 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 | 10 |
| Tetrachloroethene | 150 | | ug/l | 5.0 | 1.8 | 10 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 | 10 |
| Benzene | ND | | ug/l | 5.0 | 1.6 | 10 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 | 10 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 | 10 |
| Trichloroethene | 3.7 | J | ug/l | 5.0 | 1.8 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 1.9 | 10 |
| 2-Butanone | ND | | ug/l | 50 | 19. | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| dibromofluoromethane | 101 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-02
Client ID: STOCKPILE 2
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:00
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/06/19 12:55
Analyst: JC
Percent Solids: 82%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 240 | 110 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 48 | 7.0 | 1 |
| Chloroform | ND | | ug/kg | 72 | 6.8 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 48 | 11. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 48 | 6.0 | 1 |
| Dibromochloromethane | ND | | ug/kg | 48 | 6.8 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 48 | 13. | 1 |
| Tetrachloroethene | 3900 | | ug/kg | 24 | 9.5 | 1 |
| Chlorobenzene | ND | | ug/kg | 24 | 6.1 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 190 | 34. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 48 | 12. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 24 | 8.1 | 1 |
| Bromodichloromethane | ND | | ug/kg | 24 | 5.3 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 48 | 13. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 24 | 7.6 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 24 | 7.6 | 1 |
| Bromoform | ND | | ug/kg | 190 | 12. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 24 | 8.0 | 1 |
| Benzene | ND | | ug/kg | 24 | 8.0 | 1 |
| Toluene | ND | | ug/kg | 48 | 26. | 1 |
| Ethylbenzene | ND | | ug/kg | 48 | 6.8 | 1 |
| Chloromethane | ND | | ug/kg | 190 | 45. | 1 |
| Bromomethane | 59 | J | ug/kg | 97 | 28. | 1 |
| Vinyl chloride | ND | | ug/kg | 48 | 16. | 1 |
| Chloroethane | ND | | ug/kg | 97 | 22. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 48 | 11. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 72 | 6.6 | 1 |
| Trichloroethene | 490 | | ug/kg | 24 | 6.6 | 1 |

**Project Name:** 11075 WALDEN AVE **Lab Number:** L1923828

**Project Number:** 2180605 **Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-02 Date Collected: 06/05/19 13:00

Client ID: STOCKPILE 2 Date Received: 06/05/19

Sample Location: 11075 WALDEN AVE. ALDEN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 97 | 7.0 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 97 | 7.1 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 97 | 8.3 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 97 | 9.7 | 1 |
| p/m-Xylene | ND | | ug/kg | 97 | 27. | 1 |
| o-Xylene | ND | | ug/kg | 48 | 14. | 1 |
| Xylenes, Total | ND | | ug/kg | 48 | 14. | 1 |
| cis-1,2-Dichloroethene | 470 | | ug/kg | 48 | 8.4 | 1 |
| 1,2-Dichloroethene, Total | 470 | | ug/kg | 48 | 6.6 | 1 |
| Styrene | ND | | ug/kg | 48 | 9.5 | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 480 | 44. | 1 |
| Acetone | ND | | ug/kg | 480 | 230 | 1 |
| Carbon disulfide | ND | | ug/kg | 480 | 220 | 1 |
| 2-Butanone | ND | | ug/kg | 480 | 110 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 480 | 62. | 1 |
| 2-Hexanone | ND | | ug/kg | 480 | 57. | 1 |
| Bromochloromethane | ND | | ug/kg | 97 | 9.9 | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 48 | 13. | 1 |
| n-Butylbenzene | ND | | ug/kg | 48 | 8.1 | 1 |
| sec-Butylbenzene | ND | | ug/kg | 48 | 7.0 | 1 |
| tert-Butylbenzene | ND | | ug/kg | 97 | 5.7 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 140 | 48. | 1 |
| Isopropylbenzene | ND | | ug/kg | 48 | 5.3 | 1 |
| p-Isopropyltoluene | ND | | ug/kg | 48 | 5.3 | 1 |
| Naphthalene | ND | | ug/kg | 190 | 31. | 1 |
| n-Propylbenzene | ND | | ug/kg | 48 | 8.3 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 97 | 16. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 97 | 13. | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 97 | 9.3 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 97 | 16. | 1 |
| Methyl Acetate | ND | | ug/kg | 190 | 46. | 1 |
| Cyclohexane | ND | | ug/kg | 480 | 26. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 3900 | 1700 | 1 |
| Freon-113 | ND | | ug/kg | 190 | 33. | 1 |
| Methyl cyclohexane | ND | | ug/kg | 190 | 29. | 1 |

**Project Name:** 11075 WALDEN AVE **Lab Number:** L1923828

**Project Number:** 2180605 **Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-02 Date Collected: 06/05/19 13:00

Client ID: STOCKPILE 2 Date Received: 06/05/19

Sample Location: 11075 WALDEN AVE. ALDEN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 97 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Lab Number:** L1923828
**Project Number:** 2180605
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-03
Client ID: STOCKPILE 3
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:10
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/07/19 09:42
Analyst: MM
Percent Solids: 89%
TCLP/SPLP Ext. Date: 06/06/19 15:07

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **TCLP Volatiles by EPA 1311 - Westborough Lab** | | | | | | |
| Chloroform | ND | | ug/l | 7.5 | 2.2 | 10 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 | 10 |
| Tetrachloroethene | 260 | | ug/l | 5.0 | 1.8 | 10 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 | 10 |
| Benzene | ND | | ug/l | 5.0 | 1.6 | 10 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 | 10 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 | 10 |
| Trichloroethene | 3.5 | J | ug/l | 5.0 | 1.8 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 1.9 | 10 |
| 2-Butanone | ND | | ug/l | 50 | 19. | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| dibromofluoromethane | 99 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-03
Client ID: STOCKPILE 3
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:10
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/07/19 05:29
Analyst: MV
Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/kg | 270 | 120 | 1 |
| 1,1-Dichloroethane | ND | | ug/kg | 54 | 7.9 | 1 |
| Chloroform | ND | | ug/kg | 81 | 7.6 | 1 |
| Carbon tetrachloride | ND | | ug/kg | 54 | 12. | 1 |
| 1,2-Dichloropropane | ND | | ug/kg | 54 | 6.8 | 1 |
| Dibromochloromethane | ND | | ug/kg | 54 | 7.6 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 54 | 14. | 1 |
| Tetrachloroethene | 14000 | | ug/kg | 27 | 11. | 1 |
| Chlorobenzene | ND | | ug/kg | 27 | 6.9 | 1 |
| Trichlorofluoromethane | ND | | ug/kg | 220 | 38. | 1 |
| 1,2-Dichloroethane | ND | | ug/kg | 54 | 14. | 1 |
| 1,1,1-Trichloroethane | ND | | ug/kg | 27 | 9.1 | 1 |
| Bromodichloromethane | ND | | ug/kg | 27 | 5.9 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 54 | 15. | 1 |
| cis-1,3-Dichloropropene | ND | | ug/kg | 27 | 8.6 | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 27 | 8.6 | 1 |
| Bromoform | ND | | ug/kg | 220 | 13. | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 27 | 9.0 | 1 |
| Benzene | ND | | ug/kg | 27 | 9.0 | 1 |
| Toluene | ND | | ug/kg | 54 | 29. | 1 |
| Ethylbenzene | ND | | ug/kg | 54 | 7.6 | 1 |
| Chloromethane | ND | | ug/kg | 220 | 51. | 1 |
| Bromomethane | ND | | ug/kg | 110 | 32. | 1 |
| Vinyl chloride | ND | | ug/kg | 54 | 18. | 1 |
| Chloroethane | ND | | ug/kg | 110 | 24. | 1 |
| 1,1-Dichloroethene | ND | | ug/kg | 54 | 13. | 1 |
| trans-1,2-Dichloroethene | ND | | ug/kg | 81 | 7.4 | 1 |
| Trichloroethene | 130 | | ug/kg | 27 | 7.4 | 1 |

**Project Name:** 11075 WALDEN AVE **Lab Number:** L1923828

**Project Number:** 2180605 **Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-03 Date Collected: 06/05/19 13:10

Client ID: STOCKPILE 3 Date Received: 06/05/19

Sample Location: 11075 WALDEN AVE. ALDEN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 5035 High - Westborough Lab** | | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 110 | 7.8 | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 110 | 8.0 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 110 | 9.3 | 1 |
| Methyl tert butyl ether | ND | | ug/kg | 110 | 11. | 1 |
| p/m-Xylene | ND | | ug/kg | 110 | 30. | 1 |
| o-Xylene | ND | | ug/kg | 54 | 16. | 1 |
| Xylenes, Total | ND | | ug/kg | 54 | 16. | 1 |
| cis-1,2-Dichloroethene | 230 | | ug/kg | 54 | 9.5 | 1 |
| 1,2-Dichloroethene, Total | 230 | | ug/kg | 54 | 7.4 | 1 |
| Styrene | ND | | ug/kg | 54 | 11. | 1 |
| Dichlorodifluoromethane | ND | | ug/kg | 540 | 50. | 1 |
| Acetone | ND | | ug/kg | 540 | 260 | 1 |
| Carbon disulfide | ND | | ug/kg | 540 | 250 | 1 |
| 2-Butanone | ND | | ug/kg | 540 | 120 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 540 | 70. | 1 |
| 2-Hexanone | ND | | ug/kg | 540 | 64. | 1 |
| Bromochloromethane | ND | | ug/kg | 110 | 11. | 1 |
| 1,2-Dibromoethane | ND | | ug/kg | 54 | 15. | 1 |
| n-Butylbenzene | ND | | ug/kg | 54 | 9.1 | 1 |
| sec-Butylbenzene | ND | | ug/kg | 54 | 7.9 | 1 |
| tert-Butylbenzene | ND | | ug/kg | 110 | 6.4 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 160 | 54. | 1 |
| Isopropylbenzene | ND | | ug/kg | 54 | 5.9 | 1 |
| p-Isopropyltoluene | ND | | ug/kg | 54 | 5.9 | 1 |
| Naphthalene | ND | | ug/kg | 220 | 35. | 1 |
| n-Propylbenzene | ND | | ug/kg | 54 | 9.3 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 110 | 17. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 110 | 15. | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 110 | 10. | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 110 | 18. | 1 |
| Methyl Acetate | ND | | ug/kg | 220 | 52. | 1 |
| Cyclohexane | ND | | ug/kg | 540 | 30. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 4300 | 1900 | 1 |
| Freon-113 | ND | | ug/kg | 220 | 38. | 1 |
| Methyl cyclohexane | ND | | ug/kg | 220 | 33. | 1 |

**Project Name:** 11075 WALDEN AVE
**Lab Number:** L1923828
**Project Number:** 2180605
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-03
Client ID: STOCKPILE 3
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:10
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 08:09
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1245397-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | 66 | J | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 08:09
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1245397-5 | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | ND | | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| Xylenes, Total | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 50 | 6.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| n-Butylbenzene | ND | | ug/kg | 50 | 8.4 |
| sec-Butylbenzene | ND | | ug/kg | 50 | 7.3 |
| tert-Butylbenzene | ND | | ug/kg | 100 | 5.9 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| p-Isopropyltoluene | ND | | ug/kg | 50 | 5.4 |
| Naphthalene | ND | | ug/kg | 200 | 32. |
| n-Propylbenzene | ND | | ug/kg | 50 | 8.6 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 100 | 9.6 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 100 | 17. |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 08:09
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1245397-5 | | | | | |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 4000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | | 70-130 |
| Toluene-d8 | 103 | | 70-130 |
| 4-Bromofluorobenzene | 105 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 20:43
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1245674-5 | | | | | |
| Methylene chloride | ND | | ug/kg | 250 | 110 |
| 1,1-Dichloroethane | ND | | ug/kg | 50 | 7.2 |
| Chloroform | ND | | ug/kg | 75 | 7.0 |
| Carbon tetrachloride | ND | | ug/kg | 50 | 12. |
| 1,2-Dichloropropane | ND | | ug/kg | 50 | 6.2 |
| Dibromochloromethane | ND | | ug/kg | 50 | 7.0 |
| 1,1,2-Trichloroethane | ND | | ug/kg | 50 | 13. |
| Tetrachloroethene | ND | | ug/kg | 25 | 9.8 |
| Chlorobenzene | ND | | ug/kg | 25 | 6.4 |
| Trichlorofluoromethane | ND | | ug/kg | 200 | 35. |
| 1,2-Dichloroethane | ND | | ug/kg | 50 | 13. |
| 1,1,1-Trichloroethane | ND | | ug/kg | 25 | 8.4 |
| Bromodichloromethane | ND | | ug/kg | 25 | 5.4 |
| trans-1,3-Dichloropropene | ND | | ug/kg | 50 | 14. |
| cis-1,3-Dichloropropene | ND | | ug/kg | 25 | 7.9 |
| 1,3-Dichloropropene, Total | ND | | ug/kg | 25 | 7.9 |
| Bromoform | ND | | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane | ND | | ug/kg | 25 | 8.3 |
| Benzene | ND | | ug/kg | 25 | 8.3 |
| Toluene | ND | | ug/kg | 50 | 27. |
| Ethylbenzene | ND | | ug/kg | 50 | 7.0 |
| Chloromethane | ND | | ug/kg | 200 | 47. |
| Bromomethane | ND | | ug/kg | 100 | 29. |
| Vinyl chloride | ND | | ug/kg | 50 | 17. |
| Chloroethane | ND | | ug/kg | 100 | 23. |
| 1,1-Dichloroethene | ND | | ug/kg | 50 | 12. |
| trans-1,2-Dichloroethene | ND | | ug/kg | 75 | 6.8 |
| Trichloroethene | ND | | ug/kg | 25 | 6.8 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 100 | 7.2 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 20:43
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1245674-5 | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 100 | 7.4 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether | 10 | J | ug/kg | 100 | 10. |
| p/m-Xylene | ND | | ug/kg | 100 | 28. |
| o-Xylene | ND | | ug/kg | 50 | 14. |
| Xylenes, Total | ND | | ug/kg | 50 | 14. |
| cis-1,2-Dichloroethene | ND | | ug/kg | 50 | 8.8 |
| 1,2-Dichloroethene, Total | ND | | ug/kg | 50 | 6.8 |
| Styrene | ND | | ug/kg | 50 | 9.8 |
| Dichlorodifluoromethane | ND | | ug/kg | 500 | 46. |
| Acetone | ND | | ug/kg | 500 | 240 |
| Carbon disulfide | ND | | ug/kg | 500 | 230 |
| 2-Butanone | ND | | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone | ND | | ug/kg | 500 | 64. |
| 2-Hexanone | ND | | ug/kg | 500 | 59. |
| Bromochloromethane | ND | | ug/kg | 100 | 10. |
| 1,2-Dibromoethane | ND | | ug/kg | 50 | 14. |
| n-Butylbenzene | ND | | ug/kg | 50 | 8.4 |
| sec-Butylbenzene | ND | | ug/kg | 50 | 7.3 |
| tert-Butylbenzene | ND | | ug/kg | 100 | 5.9 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/kg | 150 | 50. |
| Isopropylbenzene | ND | | ug/kg | 50 | 5.4 |
| p-Isopropyltoluene | ND | | ug/kg | 50 | 5.4 |
| Naphthalene | ND | | ug/kg | 200 | 32. |
| n-Propylbenzene | ND | | ug/kg | 50 | 8.6 |
| 1,2,3-Trichlorobenzene | ND | | ug/kg | 100 | 16. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 100 | 14. |
| 1,3,5-Trimethylbenzene | ND | | ug/kg | 100 | 9.6 |
| 1,2,4-Trimethylbenzene | ND | | ug/kg | 100 | 17. |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/19 20:43
Analyst: KJD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1245674-5 | | | | | |
| Methyl Acetate | ND | | ug/kg | 200 | 48. |
| Cyclohexane | ND | | ug/kg | 500 | 27. |
| 1,4-Dioxane | ND | | ug/kg | 4000 | 1800 |
| Freon-113 | ND | | ug/kg | 200 | 35. |
| Methyl cyclohexane | ND | | ug/kg | 200 | 30. |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| Dibromofluoromethane | 95 | | 70-130 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/19 08:02
Analyst: MM
TCLP/SPLP Extraction Date: 06/06/19 15:07
Extraction Date: 06/06/19 15:07

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-03 Batch: WG1245782-5 | | | | | |
| Chloroform | ND | | ug/l | 7.5 | 2.2 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 |
| Tetrachloroethene | ND | | ug/l | 5.0 | 1.8 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 |
| Benzene | ND | | ug/l | 5.0 | 1.6 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 |
| Trichloroethene | ND | | ug/l | 5.0 | 1.8 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 1.9 |
| 2-Butanone | ND | | ug/l | 50 | 19. |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 70-130 |
| dibromofluoromethane | 98 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1245397-3 WG1245397-4 | | | | | | | | |
| Methylene chloride | 95 | | 90 | | 70-130 | 5 | | 30 |
| 1,1-Dichloroethane | 94 | | 90 | | 70-130 | 4 | | 30 |
| Chloroform | 100 | | 95 | | 70-130 | 5 | | 30 |
| Carbon tetrachloride | 97 | | 92 | | 70-130 | 5 | | 30 |
| 1,2-Dichloropropane | 98 | | 92 | | 70-130 | 6 | | 30 |
| Dibromochloromethane | 107 | | 104 | | 70-130 | 3 | | 30 |
| 1,1,2-Trichloroethane | 102 | | 97 | | 70-130 | 5 | | 30 |
| Tetrachloroethene | 91 | | 89 | | 70-130 | 2 | | 30 |
| Chlorobenzene | 97 | | 94 | | 70-130 | 3 | | 30 |
| Trichlorofluoromethane | 72 | | **68** | Q | 70-139 | 6 | | 30 |
| 1,2-Dichloroethane | 102 | | 96 | | 70-130 | 6 | | 30 |
| 1,1,1-Trichloroethane | 95 | | 91 | | 70-130 | 4 | | 30 |
| Bromodichloromethane | 102 | | 97 | | 70-130 | 5 | | 30 |
| trans-1,3-Dichloropropene | 105 | | 101 | | 70-130 | 4 | | 30 |
| cis-1,3-Dichloropropene | 102 | | 97 | | 70-130 | 5 | | 30 |
| Bromoform | 108 | | 103 | | 70-130 | 5 | | 30 |
| 1,1,2,2-Tetrachloroethane | 98 | | 96 | | 70-130 | 2 | | 30 |
| Benzene | 96 | | 91 | | 70-130 | 5 | | 30 |
| Toluene | 97 | | 94 | | 70-130 | 3 | | 30 |
| Ethylbenzene | 96 | | 92 | | 70-130 | 4 | | 30 |
| Chloromethane | 80 | | 76 | | 52-130 | 5 | | 30 |
| Bromomethane | 84 | | 76 | | 57-147 | 10 | | 30 |
| Vinyl chloride | **66** | Q | **63** | Q | 67-130 | 5 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1245397-3 WG1245397-4 | | | | | | | | |
| Chloroethane | 56 | | 53 | | 50-151 | 6 | | 30 |
| 1,1-Dichloroethene | 84 | | 80 | | 65-135 | 5 | | 30 |
| trans-1,2-Dichloroethene | 90 | | 85 | | 70-130 | 6 | | 30 |
| Trichloroethene | 96 | | 92 | | 70-130 | 4 | | 30 |
| 1,2-Dichlorobenzene | 101 | | 98 | | 70-130 | 3 | | 30 |
| 1,3-Dichlorobenzene | 100 | | 96 | | 70-130 | 4 | | 30 |
| 1,4-Dichlorobenzene | 99 | | 96 | | 70-130 | 3 | | 30 |
| Methyl tert butyl ether | 104 | | 100 | | 66-130 | 4 | | 30 |
| p/m-Xylene | 93 | | 90 | | 70-130 | 3 | | 30 |
| o-Xylene | 94 | | 92 | | 70-130 | 2 | | 30 |
| cis-1,2-Dichloroethene | 93 | | 89 | | 70-130 | 4 | | 30 |
| Styrene | 94 | | 91 | | 70-130 | 3 | | 30 |
| Dichlorodifluoromethane | 97 | | 92 | | 30-146 | 5 | | 30 |
| Acetone | 88 | | 80 | | 54-140 | 10 | | 30 |
| Carbon disulfide | 88 | | 83 | | 59-130 | 6 | | 30 |
| 2-Butanone | 81 | | 80 | | 70-130 | 1 | | 30 |
| 4-Methyl-2-pentanone | 97 | | 93 | | 70-130 | 4 | | 30 |
| 2-Hexanone | 86 | | 82 | | 70-130 | 5 | | 30 |
| Bromochloromethane | 103 | | 96 | | 70-130 | 7 | | 30 |
| 1,2-Dibromoethane | 103 | | 100 | | 70-130 | 3 | | 30 |
| n-Butylbenzene | 96 | | 94 | | 70-130 | 2 | | 30 |
| sec-Butylbenzene | 98 | | 93 | | 70-130 | 5 | | 30 |
| tert-Butylbenzene | 99 | | 95 | | 70-130 | 4 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1245397-3 WG1245397-4 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 105 | | 102 | | 68-130 | 3 | | 30 |
| Isopropylbenzene | 100 | | 95 | | 70-130 | 5 | | 30 |
| p-Isopropyltoluene | 99 | | 95 | | 70-130 | 4 | | 30 |
| Naphthalene | 102 | | 100 | | 70-130 | 2 | | 30 |
| n-Propylbenzene | 98 | | 94 | | 70-130 | 4 | | 30 |
| 1,2,3-Trichlorobenzene | 104 | | 100 | | 70-130 | 4 | | 30 |
| 1,2,4-Trichlorobenzene | 106 | | 104 | | 70-130 | 2 | | 30 |
| 1,3,5-Trimethylbenzene | 102 | | 98 | | 70-130 | 4 | | 30 |
| 1,2,4-Trimethylbenzene | 102 | | 98 | | 70-130 | 4 | | 30 |
| Methyl Acetate | 78 | | 78 | | 51-146 | 0 | | 30 |
| Cyclohexane | 87 | | 84 | | 59-142 | 4 | | 30 |
| 1,4-Dioxane | 104 | | 89 | | 65-136 | 16 | | 30 |
| Freon-113 | 90 | | 87 | | 50-139 | 3 | | 30 |
| Methyl cyclohexane | 92 | | 88 | | 70-130 | 4 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 99 | | 70-130 |
| Toluene-d8 | 102 | | 103 | | 70-130 |
| 4-Bromofluorobenzene | 109 | | 109 | | 70-130 |
| Dibromofluoromethane | 100 | | 100 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1245674-3 WG1245674-4 | | | | | | | | |
| Methylene chloride | 96 | | 98 | | 70-130 | 2 | | 30 |
| 1,1-Dichloroethane | 102 | | 105 | | 70-130 | 3 | | 30 |
| Chloroform | 100 | | 104 | | 70-130 | 4 | | 30 |
| Carbon tetrachloride | 92 | | 96 | | 70-130 | 4 | | 30 |
| 1,2-Dichloropropane | 97 | | 101 | | 70-130 | 4 | | 30 |
| Dibromochloromethane | 91 | | 94 | | 70-130 | 3 | | 30 |
| 1,1,2-Trichloroethane | 94 | | 98 | | 70-130 | 4 | | 30 |
| Tetrachloroethene | 101 | | 102 | | 70-130 | 1 | | 30 |
| Chlorobenzene | 95 | | 97 | | 70-130 | 2 | | 30 |
| Trichlorofluoromethane | 100 | | 103 | | 70-139 | 3 | | 30 |
| 1,2-Dichloroethane | 93 | | 97 | | 70-130 | 4 | | 30 |
| 1,1,1-Trichloroethane | 100 | | 103 | | 70-130 | 3 | | 30 |
| Bromodichloromethane | 92 | | 96 | | 70-130 | 4 | | 30 |
| trans-1,3-Dichloropropene | 94 | | 96 | | 70-130 | 2 | | 30 |
| cis-1,3-Dichloropropene | 92 | | 97 | | 70-130 | 5 | | 30 |
| Bromoform | 87 | | 90 | | 70-130 | 3 | | 30 |
| 1,1,2,2-Tetrachloroethane | 93 | | 97 | | 70-130 | 4 | | 30 |
| Benzene | 97 | | 100 | | 70-130 | 3 | | 30 |
| Toluene | 97 | | 100 | | 70-130 | 3 | | 30 |
| Ethylbenzene | 98 | | 99 | | 70-130 | 1 | | 30 |
| Chloromethane | 113 | | 113 | | 52-130 | 0 | | 30 |
| Bromomethane | 92 | | 98 | | 57-147 | 6 | | 30 |
| Vinyl chloride | 111 | | 112 | | 67-130 | 1 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1245674-3 WG1245674-4 | | | | | | | | |
| Chloroethane | 105 | | 109 | | 50-151 | 4 | | 30 |
| 1,1-Dichloroethene | 104 | | 107 | | 65-135 | 3 | | 30 |
| trans-1,2-Dichloroethene | 100 | | 104 | | 70-130 | 4 | | 30 |
| Trichloroethene | 97 | | 99 | | 70-130 | 2 | | 30 |
| 1,2-Dichlorobenzene | 94 | | 96 | | 70-130 | 2 | | 30 |
| 1,3-Dichlorobenzene | 96 | | 97 | | 70-130 | 1 | | 30 |
| 1,4-Dichlorobenzene | 95 | | 96 | | 70-130 | 1 | | 30 |
| Methyl tert butyl ether | 94 | | 97 | | 66-130 | 3 | | 30 |
| p/m-Xylene | 96 | | 97 | | 70-130 | 1 | | 30 |
| o-Xylene | 94 | | 97 | | 70-130 | 3 | | 30 |
| cis-1,2-Dichloroethene | 98 | | 101 | | 70-130 | 3 | | 30 |
| Styrene | 94 | | 97 | | 70-130 | 3 | | 30 |
| Dichlorodifluoromethane | 101 | | 100 | | 30-146 | 1 | | 30 |
| Acetone | 107 | | 116 | | 54-140 | 8 | | 30 |
| Carbon disulfide | 96 | | 99 | | 59-130 | 3 | | 30 |
| 2-Butanone | 102 | | 107 | | 70-130 | 5 | | 30 |
| 4-Methyl-2-pentanone | 92 | | 100 | | 70-130 | 8 | | 30 |
| 2-Hexanone | 92 | | 96 | | 70-130 | 4 | | 30 |
| Bromochloromethane | 96 | | 98 | | 70-130 | 2 | | 30 |
| 1,2-Dibromoethane | 92 | | 95 | | 70-130 | 3 | | 30 |
| n-Butylbenzene | 101 | | 102 | | 70-130 | 1 | | 30 |
| sec-Butylbenzene | 101 | | 104 | | 70-130 | 3 | | 30 |
| tert-Butylbenzene | 99 | | 101 | | 70-130 | 2 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1245674-3 WG1245674-4 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 81 | | 83 | | 68-130 | 2 | | 30 |
| Isopropylbenzene | 100 | | 101 | | 70-130 | 1 | | 30 |
| p-Isopropyltoluene | 100 | | 102 | | 70-130 | 2 | | 30 |
| Naphthalene | 93 | | 95 | | 70-130 | 2 | | 30 |
| n-Propylbenzene | 100 | | 102 | | 70-130 | 2 | | 30 |
| 1,2,3-Trichlorobenzene | 95 | | 97 | | 70-130 | 2 | | 30 |
| 1,2,4-Trichlorobenzene | 96 | | 97 | | 70-130 | 1 | | 30 |
| 1,3,5-Trimethylbenzene | 98 | | 99 | | 70-130 | 1 | | 30 |
| 1,2,4-Trimethylbenzene | 98 | | 100 | | 70-130 | 2 | | 30 |
| Methyl Acetate | 97 | | 102 | | 51-146 | 5 | | 30 |
| Cyclohexane | 103 | | 106 | | 59-142 | 3 | | 30 |
| 1,4-Dioxane | 98 | | 113 | | 65-136 | 14 | | 30 |
| Freon-113 | 101 | | 104 | | 50-139 | 3 | | 30 |
| Methyl cyclohexane | 98 | | 101 | | 70-130 | 3 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | | 97 | | 70-130 |
| Toluene-d8 | 100 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 102 | | 102 | | 70-130 |
| Dibromofluoromethane | 98 | | 100 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-03 Batch: WG1245782-3 WG1245782-4 | | | | | | | | |
| Chloroform | 110 | | 97 | | 70-130 | 13 | | 20 |
| Carbon tetrachloride | 100 | | 97 | | 63-132 | 3 | | 20 |
| Tetrachloroethene | 120 | | 110 | | 70-130 | 9 | | 20 |
| Chlorobenzene | 110 | | 100 | | 75-130 | 10 | | 25 |
| 1,2-Dichloroethane | 100 | | 95 | | 70-130 | 5 | | 20 |
| Benzene | 100 | | 93 | | 70-130 | 7 | | 25 |
| Vinyl chloride | 110 | | 98 | | 55-140 | 12 | | 20 |
| 1,1-Dichloroethene | 110 | | 93 | | 61-145 | 17 | | 25 |
| Trichloroethene | 110 | | 99 | | 70-130 | 11 | | 25 |
| 1,4-Dichlorobenzene | 120 | | 100 | | 70-130 | 18 | | 20 |
| 2-Butanone | 95 | | 84 | | 63-138 | 12 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | | 93 | | 70-130 |
| Toluene-d8 | 99 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 101 | | 70-130 |
| dibromofluoromethane | 101 | | 99 | | 70-130 |

# SEMIVOLATILES

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-04
Client ID: STOCKPILE COMPOSITE
Sample Location: 11075 WALDEN AVE. ALDEN, NY

Date Collected: 06/05/19 13:20
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/07/19 15:00
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 06/07/19 02:33

TCLP/SPLP Ext. Date: 06/06/19 06:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **TCLP Semivolatiles by EPA 1311 - Westborough Lab** | | | | | | |
| Hexachlorobenzene | ND | | ug/l | 10 | 2.9 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 25 | 4.2 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 10 | 3.6 | 1 |
| Hexachloroethane | ND | | ug/l | 10 | 3.4 | 1 |
| Nitrobenzene | ND | | ug/l | 10 | 3.8 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 25 | 3.4 | 1 |
| Pentachlorophenol | ND | | ug/l | 50 | 17. | 1 |
| 2-Methylphenol | ND | | ug/l | 25 | 5.1 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 25 | 5.6 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 25 | 3.6 | 1 |
| Pyridine | ND | | ug/l | 18 | 9.4 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 53 | | 21-120 |
| Phenol-d6 | 49 | | 10-120 |
| Nitrobenzene-d5 | 62 | | 23-120 |
| 2-Fluorobiphenyl | 57 | | 15-120 |
| 2,4,6-Tribromophenol | 69 | | 10-120 |
| 4-Terphenyl-d14 | 60 | | 33-120 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/07/19 14:53
Analyst: RC
TCLP/SPLP Extraction Date: 06/06/19 06:31

Extraction Method: EPA 3510C
Extraction Date: 06/07/19 02:33

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 04 Batch: WG1245597-1 | | | | | |
| Hexachlorobenzene | ND | | ug/l | 10 | 2.9 |
| 2,4-Dinitrotoluene | ND | | ug/l | 25 | 4.2 |
| Hexachlorobutadiene | ND | | ug/l | 10 | 3.6 |
| Hexachloroethane | ND | | ug/l | 10 | 3.4 |
| Nitrobenzene | ND | | ug/l | 10 | 3.8 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 25 | 3.4 |
| Pentachlorophenol | ND | | ug/l | 50 | 17. |
| 2-Methylphenol | ND | | ug/l | 25 | 5.1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 25 | 5.6 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 25 | 3.6 |
| Pyridine | ND | | ug/l | 18 | 9.4 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 56 | | 21-120 |
| Phenol-d6 | 49 | | 10-120 |
| Nitrobenzene-d5 | 71 | | 23-120 |
| 2-Fluorobiphenyl | 53 | | 15-120 |
| 2,4,6-Tribromophenol | 69 | | 10-120 |
| 4-Terphenyl-d14 | 61 | | 33-120 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 04 Batch: WG1245597-2 WG1245597-3 | | | | | | | | |
| Hexachlorobenzene | 64 | | 66 | | 40-140 | 3 | | 30 |
| 2,4-Dinitrotoluene | 74 | | 75 | | 40-132 | 1 | | 30 |
| Hexachlorobutadiene | 42 | | 40 | | 28-111 | 5 | | 30 |
| Hexachloroethane | 44 | | 43 | | 21-105 | 2 | | 30 |
| Nitrobenzene | 73 | | 73 | | 40-140 | 0 | | 30 |
| 2,4,6-Trichlorophenol | 71 | | 63 | | 30-130 | 12 | | 30 |
| Pentachlorophenol | 68 | | 69 | | 9-103 | 1 | | 30 |
| 2-Methylphenol | 67 | | 60 | | 30-130 | 11 | | 30 |
| 3-Methylphenol/4-Methylphenol | 68 | | 63 | | 30-130 | 8 | | 30 |
| 2,4,5-Trichlorophenol | 74 | | 65 | | 30-130 | 13 | | 30 |
| Pyridine | 38 | | 30 | | 10-66 | 24 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 59 | | 56 | | 21-120 |
| Phenol-d6 | 57 | | 52 | | 10-120 |
| Nitrobenzene-d5 | 78 | | 76 | | 23-120 |
| 2-Fluorobiphenyl | 61 | | 54 | | 15-120 |
| 2,4,6-Tribromophenol | 78 | | 78 | | 10-120 |
| 4-Terphenyl-d14 | 64 | | 63 | | 33-120 |

# METALS

**Project Name:** 11075 WALDEN AVE
**Lab Number:** L1923828
**Project Number:** 2180605
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-04
Client ID: STOCKPILE COMPOSITE
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:20
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
TCLP/SPLP Ext. Date: 06/06/19 06:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TCLP Metals by EPA 1311 - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, TCLP | 0.021 | J | mg/l | 1.00 | 0.019 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Barium, TCLP | 0.457 | J | mg/l | 0.500 | 0.021 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Cadmium, TCLP | ND | | mg/l | 0.100 | 0.010 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Chromium, TCLP | 0.023 | J | mg/l | 0.200 | 0.021 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Lead, TCLP | ND | | mg/l | 0.500 | 0.027 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Mercury, TCLP | ND | | mg/l | 0.0010 | 0.0005 | 1 | 06/07/19 11:30 | 06/07/19 16:49 | EPA 7470A | 1,7470A | GD |
| Selenium, TCLP | ND | | mg/l | 0.500 | 0.035 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |
| Silver, TCLP | ND | | mg/l | 0.100 | 0.028 | 1 | 06/07/19 09:36 | 06/07/19 15:20 | EPA 3015 | 1,6010D | LC |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 04 Batch: WG1245730-1 | | | | | | | | | | |
| Arsenic, TCLP | ND | | mg/l | 1.00 | 0.019 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Barium, TCLP | 0.027 | J | mg/l | 0.500 | 0.021 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Cadmium, TCLP | ND | | mg/l | 0.100 | 0.010 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Chromium, TCLP | ND | | mg/l | 0.200 | 0.021 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Lead, TCLP | ND | | mg/l | 0.500 | 0.027 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Selenium, TCLP | ND | | mg/l | 0.500 | 0.035 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |
| Silver, TCLP | ND | | mg/l | 0.100 | 0.028 | 1 | 06/07/19 09:36 | 06/07/19 15:11 | 1,6010D | LC |

**Prep Information**

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 06/06/19 06:31

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 04 Batch: WG1245795-1 | | | | | | | | | | |
| Mercury, TCLP | ND | | mg/l | 0.0010 | 0.0005 | 1 | 06/07/19 11:30 | 06/07/19 16:42 | 1,7470A | GD |

**Prep Information**

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 06/06/19 06:31

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1245730-2 | | | | | | | | |
| Arsenic, TCLP | 108 | | - | | 75-125 | - | | 20 |
| Barium, TCLP | 96 | | - | | 75-125 | - | | 20 |
| Cadmium, TCLP | 101 | | - | | 75-125 | - | | 20 |
| Chromium, TCLP | 95 | | - | | 75-125 | - | | 20 |
| Lead, TCLP | 96 | | - | | 75-125 | - | | 20 |
| Selenium, TCLP | 106 | | - | | 75-125 | - | | 20 |
| Silver, TCLP | 94 | | - | | 75-125 | - | | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1245795-2 | | | | | | | | |
| Mercury, TCLP | 87 | | - | | 80-120 | - | | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 COMPOSITE | QC Batch ID: WG1245730-3 | | QC Sample: L1923828-04 | | Client ID: STOCKPILE | | | | | | | |
| Arsenic, TCLP | 0.021J | 1.2 | 1.35 | 112 | | - | - | | 75-125 | - | | 20 |
| Barium, TCLP | 0.457J | 20 | 20.1 | 100 | | - | - | | 75-125 | - | | 20 |
| Cadmium, TCLP | ND | 0.51 | 0.521 | 102 | | - | - | | 75-125 | - | | 20 |
| Chromium, TCLP | 0.023J | 2 | 1.92 | 96 | | - | - | | 75-125 | - | | 20 |
| Lead, TCLP | ND | 5.1 | 4.92 | 96 | | - | - | | 75-125 | - | | 20 |
| Selenium, TCLP | ND | 1.2 | 1.28 | 107 | | - | - | | 75-125 | - | | 20 |
| Silver, TCLP | ND | 0.5 | 0.488 | 98 | | - | - | | 75-125 | - | | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 COMPOSITE | QC Batch ID: WG1245795-3 | | QC Sample: L1923828-04 | | Client ID: STOCKPILE | | | | | | | |
| Mercury, TCLP | ND | 0.025 | 0.0225 | 90 | | - | - | | 80-120 | - | | 20 |

# Lab Duplicate Analysis
*Batch Quality Control*

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

***Lab Number:*** L1923828
***Report Date:*** 06/07/19

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1245730-4 QC Sample: L1923828-04 Client ID: STOCKPILE COMPOSITE | | | | | | |
| Arsenic, TCLP | 0.021J | ND | mg/l | NC | | 20 |
| Barium, TCLP | 0.457J | 0.465J | mg/l | NC | | 20 |
| Cadmium, TCLP | ND | ND | mg/l | NC | | 20 |
| Chromium, TCLP | 0.023J | ND | mg/l | NC | | 20 |
| Lead, TCLP | ND | ND | mg/l | NC | | 20 |
| Selenium, TCLP | ND | ND | mg/l | NC | | 20 |
| Silver, TCLP | ND | ND | mg/l | NC | | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1245795-4 QC Sample: L1923828-04 Client ID: STOCKPILE COMPOSITE | | | | | | |
| Mercury, TCLP | ND | ND | mg/l | NC | | 20 |

# INORGANICS
# &
# MISCELLANEOUS

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-04
Client ID: STOCKPILE COMPOSITE
Sample Location: 11075 WALDEN AVE. ALDEN, NY
Date Collected: 06/05/19 13:20
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

### Test Material Information

| | |
|---|---|
| Source of Material: | Unknown |
| Description of Material: | Non-Metallic - Damp Soil |
| Particle Size: | Medium |
| Preliminary Burning Time (sec): | 120 |

| Parameter | Result | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|
| Ignitability of Solids - Westborough Lab | | | | |
| Ignitability | NI | 06/06/19 05:22 | 1,1030 | GD |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-01
Client ID: STOCKPILE 1
Sample Location: 11075 WALDEN AVE. ALDEN, NY

Date Collected: 06/05/19 12:50
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 84.9 | | % | 0.100 | NA | 1 | - | 06/06/19 05:31 | 121,2540G | YA |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-02
Client ID: STOCKPILE 2
Sample Location: 11075 WALDEN AVE. ALDEN, NY

Date Collected: 06/05/19 13:00
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 82.1 | | % | 0.100 | NA | 1 | - | 06/06/19 05:31 | 121,2540G | YA |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-03
Client ID: STOCKPILE 3
Sample Location: 11075 WALDEN AVE. ALDEN, NY

Date Collected: 06/05/19 13:10
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Solids, Total | 88.9 | | % | 0.100 | NA | 1 | - | 06/06/19 05:31 | 121,2540G | YA |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## SAMPLE RESULTS

Lab ID: L1923828-04
Client ID: STOCKPILE COMPOSITE
Sample Location: 11075 WALDEN AVE. ALDEN, NY

Date Collected: 06/05/19 13:20
Date Received: 06/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| pH (H) | 10.7 | | SU | - | NA | 1 | - | 06/06/19 06:05 | 1,9045D | JW |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/06/19 04:59 | 06/06/19 06:29 | 125,7.3 | KF |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/06/19 04:59 | 06/06/19 06:20 | 125,7.3 | KF |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605
**Lab Number:** L1923828
**Report Date:** 06/07/19

# Method Blank Analysis
## Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1245126-1 | | | | | | | | | | |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/06/19 04:59 | 06/06/19 06:19 | 125,7.3 | KF |
| General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1245127-1 | | | | | | | | | | |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/06/19 04:59 | 06/06/19 06:28 | 125,7.3 | KF |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

**Lab Number:** L1923828

**Report Date:** 06/07/19

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1245126-2 | | | | | | | | |
| Sulfide, Reactive | 78 | | - | | 60-125 | - | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1245127-2 | | | | | | | | |
| Cyanide, Reactive | 70 | | - | | 30-125 | - | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1245150-1 | | | | | | | | |
| pH | 100 | | - | | 99-101 | - | | |

# Lab Duplicate Analysis

***Batch Quality Control***

**Project Name:** 11075 WALDEN AVE

**Project Number:** 2180605

***Lab Number:*** L1923828

***Report Date:*** 06/07/19

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1245107-1 QC Sample: L1923581-08 Client ID: DUP Sample | | | | | | |
| Solids, Total | 91.9 | 92.1 | % | 0 | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1245126-3 QC Sample: L1923865-17 Client ID: DUP Sample | | | | | | |
| Sulfide, Reactive | ND | ND | mg/kg | NC | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1245127-3 QC Sample: L1923865-17 Client ID: DUP Sample | | | | | | |
| Cyanide, Reactive | ND | ND | mg/kg | NC | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1245150-2 QC Sample: L1923812-01 Client ID: DUP Sample | | | | | | |
| pH | 6.9 | 5.8 | SU | **17** | Q | 5 |

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1923828-01A | Vial MeOH preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1923828-01B | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-01C | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-01D | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-01E | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-01F | Vial Large Septa unpreserved (4oz) | A | NA | | 3.1 | Y | Absent | | TCLP-EXT-ZHE(14) |
| L1923828-01S | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |
| L1923828-01T | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |
| L1923828-02A | Vial MeOH preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1923828-02B | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-02C | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-02D | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-02E | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-02F | Vial Large Septa unpreserved (4oz) | A | NA | | 3.1 | Y | Absent | | TCLP-EXT-ZHE(14) |
| L1923828-02S | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |
| L1923828-02T | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |
| L1923828-03A | Vial MeOH preserved | A | NA | | 3.1 | Y | Absent | | NYTCL-8260HLW-R2(14) |
| L1923828-03B | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-03C | Vial water preserved | A | NA | | 3.1 | Y | Absent | 06-JUN-19 04:48 | NYTCL-8260HLW-R2(14) |
| L1923828-03D | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-03E | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | TS(7) |
| L1923828-03F | Vial Large Septa unpreserved (4oz) | A | NA | | 3.1 | Y | Absent | | TCLP-EXT-ZHE(14) |
| L1923828-03S | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |



*Values in parentheses indicate holding time in days

**Project Name:** 11075 WALDEN AVE
**Project Number:** 2180605

**Lab Number:** L1923828
**Report Date:** 06/07/19

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L1923828-03T | Vial unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-VOA(14) |
| L1923828-04A | Plastic 2oz unpreserved for TS | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04B | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04C | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04D | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04E | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04F | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04G | Glass 120ml/4oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04H | Glass 250ml/8oz unpreserved | A | NA | | 3.1 | Y | Absent | | IGNIT-1030(14),REACTS(14),PH-9045(1),REACTCN(14) |
| L1923828-04Q | Plastic 120ml HNO3 preserved Extracts | A | NA | | 3.1 | Y | Absent | | CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180) |
| L1923828-04W | Amber 1000ml unpreserved Extracts | A | NA | | 3.1 | Y | Absent | | TCLP-8270(14) |
| L1923828-04X9 | Tumble Vessel | A | NA | | 3.1 | Y | Absent | | - |



*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVE | **Lab Number:** | L1923828 |
| **Project Number:** | 2180605 | **Report Date:** | 06/07/19 |

## GLOSSARY

***Acronyms***

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

***Footnotes***

*Report Format: DU Report with 'J' Qualifiers*

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVE | **Lab Number:** | L1923828 |
| **Project Number:** | 2180605 | **Report Date:** | 06/07/19 |

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

***Terms***

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

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

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

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

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

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

***Data Qualifiers***

**A** - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

**J** - Estimated value. 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).

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

**ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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

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

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

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

*Report Format: DU Report with 'J' Qualifiers*

| | | | |
|---|---|---|---|
| **Project Name:** | 11075 WALDEN AVE | **Lab Number:** | L1923828 |
| **Project Number:** | 2180605 | **Report Date:** | 06/07/19 |

## REFERENCES


1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.


## LIMITATION OF LIABILITIES

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

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

# Certification Information

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

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

**EPA 6860:** SCM: Perchlorate

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

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

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

**Westborough Facility:**

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

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

**Mansfield Facility:**

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

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

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

# 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 of

Date Rec'd in Lab: 6/6/19

ALPHA Job #: L1923828

## Client Information

Client: Labella
Address: 200 Pearl St
Buffalo, NY
Phone: 716-710-3043
Fax:
Email: sam1fan@labellaco.com

## Project Information

Project Name: 11075 Walden Ave
Project Location: 11075 Walden Ave Alden, NY
Project #: 21EC005
(Use Project name as Project #) ☐
Project Manager: Adam Zebrowski
ALPHAQuote #:

## Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ 1 # of Days: 1 day

## 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:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

***Sample Filtration***
☐ Done
☐ Lab to do
***Preservation***
☐ Lab to do
***(Please Specify below)***

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL VOC | TCLP VOC | TCLP SVOC | TCLP Metals | Reactivity, Corrosivity, Ignitability | | | | Total Bottle | Sample Specific Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23828-01 | Stockpile 1 | 6/5/19 | 1256 | Soil | SD | X | X | | | | | | | | |
| -02 | Stockpile 2 | 6/5/19 | 1300 | Soil | SD | X | X | | | | | | | | |
| -03 | Stockpile 3 | 6/5/19 | 1310 | Soil | SD | X | X | | | | | | | | |
| -04 | Stockpile Composite | 6/5/19 | 1320 | Soil | SD | | | X | X | X | | | | | |
| BW 6/6/19 -05 | | | | | | | | | | | | | | | |

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 |
|---|---|---|---|
| Sharmon Dubb | 6/5/19 14:50 | | 6/5/19 1453 |
| | 6/5/19 16:30 | AAL | 6/6/19 0840 |

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)

# Appendix J – Disposal Receipts

L 395210

# PARISO LOGISTICS, INC.

JOB# 11007

3649 River Road
Tonawanda, NY 14150

OFFICE: 875-6168 FAX: 875-4121

CUSTOMER LABELLA DATE 1/20

LOAD LOCATION 1079 GARNDEN DUMP LOCATION

HIRED TRUCK COMPANY

TRUCK # & DRIVER 109 LARRY-H

☒ DUMP TRUCK SERVICE ☐ SLINGER SERVICE
☐ DUMP TRAILER SERVICE ☐ OTHER

MATERIAL HAULED CONCRETE

JOB START 900
JOB FINISH 1100
TRAVEL TIME 1
☐ LUNCH ☒ NO LUNCH
TOTAL 3 HRS

| LD # | TICKET # | WEIGHT | WAIT TIME ON JOB IN - OUT | REMARKS SPECIFY: ON "HOLD" @ PLANT, TOLLS, DUMP LOCATIONS, ETC. |
|---|---|---|---|---|
| 1 | 73274 | | - | |
| 2 | 72169 | | - | |
| 3 | | | - | |
| 4 | | | - | |
| 5 | | | - | |
| 6 | | | - | |
| 7 | | | - | |
| 8 | | | - | |
| 9 | | | - | |
| 10 | | | - | |
| 11 | | | - | |
| 12 | | | - | |
| 13 | | | - | |
| 14 | | | - | |
| 15 | | | - | |

OUR RESPONSIBILITY ENDS AT THE CURB

CUSTOMER'S SIGNATURE:

JOB COPY

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| N/A | | 716-285-4930 | FO-456116 |

**GENERATOR**

5. Generator's Name and Mailing Address

Walden Realty Limited Partnership, , 11980 Walden Avenue, , Alden NY 14004, Dave

Generator's Site Address (if different than mailing address)

11673 Walden Avenue Site, , 11671 Walden Avenue, , Alden NY 14004, Dave Fogest (LaBella)

Generator's Phone: 585-295-6630

6. Transporter 1 Company Name: Patco Louisiana 716-875-6168 — U.S. EPA ID Number: GA 999

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Mi Chaffee Landfill
10969 Glean Road
Chaffee, New York 14030

U.S. EPA ID Number: N/A

Facility's Phone: 866-909-4456

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA, Non D.O.T. Regulated Material, Soil, , , | 001 | Y | | | T |
| 2. | Mi Chaffee Profile #1215711NY, , , | | | | | |
| 3. | , , , | | | | | |
| 4. | , , , | | | | | |

13. Special Handling Instructions and Additional Information

Emergency Contact: Envol, Inc. Rick Horvath
Envol, Inc. Project ID Number: 19-3532-13
Truck ID:
Truck Lic.:

Weight Ticket No.:
Gross Weight:
Tare Weight:
, , ,

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #12 Estimated. Actual Weight =

Manifest Reference Number: 456116

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year



GENERATOR'S/SHIPPER'S INITIAL COPY

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | N/A | | 716-285-1920 | ES-456115 |

**GENERATOR**

5. Generator's Name and Mailing Address

Walden Realty Limited Partnership, , 11080 Walden Avenue, , Alden NY 14004, Dave Ingert

Generator's Phone: 585-295-4430

Generator's Site Address (if different than mailing address)

11075 Walden Avenue Site, , 11075 Walden Avenue, , Alden NY 14004, Dave Ingert (Cubella)

6. Transporter 1 Company Name

Patent Logistics 716-875-6160 #233

U.S. EPA ID Number: NA 026

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Mi Chaffee Landfill
10060 Olean Road
Chaffee, New York 14030

Facility's Phone: 888-909-9452

U.S. EPA ID Number: N/A

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA, Non D.O.T. Regulated Material, Soil, , , | 001 | T | | | T |
| 2. | MI Chaffee Profile #121571NT, , , | | | | | |
| 3. | , , , | | | | | |
| 4. | , , , | | | | | |

13. Special Handling Instructions and Additional Information

Emergency Contact: Ensol, Inc. Rick Borrasio
Ensol, Inc. Project IO Number: 19-3532-13
Truck ID: 23
Trailer No.: 53'-12
Hauling Co.:

Weight Ticket No.:
Gross Weight:
Tare Weight:
, , ,

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shawn M. Abbott | Signature | Month | Day | Year: / 22 2

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight =

Manifest Reference Number: ES456115

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year



GENERATOR'S/SHIPPER'S INITIAL COPY

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| N/A | | 716-285-9929 | ES-456114 |

**GENERATOR**

5. Generator's Name and Mailing Address

Walden Realty Limited Partnership, , 11990 Walden Avenue, , Alden NY 14004, Dave

Generator's Phone: 585-295-6630

Generator's Site Address (if different than mailing address)

11073 Walden Avenue Site, , 11073 Walden Avenue, , Alden NY 14004, Dave Engert (Labella)

6. Transporter 1 Company Name: Parker Logistics 716-875-6168

U.S. EPA ID Number: NYA 526

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

WM Chaffee Landfill
10860 Olean Road
Chaffee, New York 14030

Facility's Phone: 865-909-4958

U.S. EPA ID Number: N/A

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA, Non D.O.T. Regulated Material, Soil, , , | 001 | T | | | T |
| 2. | WM Chaffee Profile #1215781Y, , , | | | | | |
| 3. | , , , | | | | | |
| 4. | , , , | | | | | |

13. Special Handling Instructions and Additional Information

Emergency Contact: Excel, Inc. Rick Horvath
Excel, Inc. Project ID Number: 12-3838-13
Truck ID:
Truck Lic.:
Handling Codes:

Vehicle Ticket No.:
Gross Vehicle:
Tare Vehicle:
, , ,

**14. GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight =

Manifest Reference Number: 456114

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year



GENERATOR'S/SHIPPER'S INITIAL COPY

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| N/A | | 716-285-1620 | PS-456113 |

**GENERATOR**

5. Generator's Name and Mailing Address

Walden Realty Limited Partnership, , 11080 Walden Avenue, , Alden NY 14004, Dave

Generator's Site Address (if different than mailing address)

11075 Walden Avenue Site, , 11075 Walden Avenue, , Alden NY 14004, Dave Eugeni (Ladelle)

Generator's Phone: 585-295-5620

6. Transporter 1 Company Name: Patton Logistics 716-875-6150 — U.S. EPA ID Number: NY 826

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WI Chaffee Landfill, 10860 Olean Road, Chaffee, New York 14030 — U.S. EPA ID Number: N/A

Facility's Phone: 866-792-4456

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA, Non D.O.T. Regulated Material, Soil, , , | 001 | T | | | T |
| 2. | WI Chaffee Profile #1215714T, , , | | | | | |
| 3. | , , , | | | | | |
| 4. | , , , | | | | | |

13. Special Handling Instructions and Additional Information

Generator Contact: Excel Inc. Nick Borrello

Excel, Inc. Project ID Number: 10-3532-13

Truck ID:

Truck Etc.:

Handling Codes:

Weight Ticket No.:

Gross Weight:

Tare Weight:

, , ,

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Item #13 Estimated. Actual Weight =

Manifest Reference Number: 456113

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year



GENERATOR'S/SHIPPER'S INITIAL COPY

# ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

Region 2

**08/09/2019**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

| | |
|---|---|
| **EPA I.D. NUMBER:** | **NYD986875219** |
| **INSTALLATION NAME:** | **11075 WALDEN AVENUE - NYSDEC ID # C915333** |
| **INSTALLATION ADDRESS :** | **11075 WALDEN AVE**<br>**ALDEN, NY 14004** |
| **MAILING ADDRESS :** | **11980 WALDEN AVE**<br>**ALDEN, NY 14004** |

EPA Form 8700-12AB (4-80)

---

**USEPA - REGION 2**
**RCRA Programs Branch**
**290 Broadway, 22nd Floor**
**New York, NY 10007-1866**

**ATTN: RCRA NOTIFICATIONS**
**Tel : (212) 637-4106**
**Fax: (212) 637-4437**

**TO: 11075 WALDEN AVENUE - NYSDEC ID # C915333**
**or Current Occupant**

**ATTN: 11075 WALDEN AVE**
**ALDEN, NY 14004**

HORIZON ENVIRONNEMENT INT'L
(division of 3600653 Canada inc.)
155 Labelle Blvd. Suite 101
Rosemere, Quebec, Canada J7A 2H2
Tel.: 1-800-545-7657 • (819) 538-3921
Fax: (819) 538-0889 ( ) -

# INVOICE

INVOICE #: 1349

PAGE: 1

DATE: 2020-02-08

CONTRACT #: 360-523

P.O. #: TPU3-1365

CLIENT
LABELLA ASSOCIATES, D.P.C.
DAVE ENGERT
300 STATE STREET
ROCHERSTER, NY 14614
(585)295-6630 ( )

| WEIGHT TICKET NO. | DATE | TIME | DESCRIPTION | WEIGHT | PRICE/ TON. | SERVICE | TOTAL |
|---|---|---|---|---|---|---|---|
| 115078 | 2020/02/04 | 11:09 | SOLS CONTAMINES CELLULE | 37.83 | 100.00 | | 3,783.00$us |
| 115079 | 2020/02/04 | 11:11 | SOLS CONTAMINES CELLULE | 38.10 | 100.00 | | 3,809.50$us |
| 115081 | 2020/02/04 | 11:19 | SOLS CONTAMINES CELLULE | 37.30 | 100.00 | | 3,730.00$us |
| 115100 | 2020/02/04 | 15:42 | SOLS CONTAMINES CELLULE | 4.24 | 100.00 | | 423.50$us |
| | | | | 117.46 | | 0.00 | 11,746.00$us |

| TOTAL: | G.S.T. | Q.S.T. | | | | | GRAND TOTAL |
|---|---|---|---|---|---|---|---|
| 11,746.00$us | 0.00$us | 0.00$us | T3 | 0.00$us | T4 | 0.00$us | 11,746.00$us |

#G.S.T.: 142909506RT #Q.S.T.: 1022262986

TERMS: NET 30 DAYS AFTER THE DATE OF THE INVOICE. 2% PER MONTH ON PAST DUE.

03014

CLIENT COPY

HORIZON ENVIRONNEMENT INC.
120, Route 155
Grandes-Piles (Québec) G0X 1H0
Tél. : 1-800-545-7657 • (819) 538-3921
Fax : (819) 538-0889
( ) -

# BILLET

N° T.P.S. : 140578741 RT

N° T.V.Q. : 1017578304

**Provenance US**

| | oui | non |
|---|---|---|
| plastique | ☑ | ☐ |
| lavage | ☐ | ☑ |

par: AM

| | |
|---|---|
| N° DU BILLET : | 115078 |
| N° DU CONTRAT : | CHE-3384 |
| BON DE COMMANDE : | TPUS-1365 |
| DATE : | 2020-02-04 |
| HEURE ENTRÉE : | 10:35 |
| HEURE SORTIE : | 11:09 |

3600653 CANADA INC.
155 LABELLE BLVD SUITE 101,
ROSEMÈRE, QC
J7A 2H2

EL.

WALDEN REALTY LTD PARTNERSHIP
11980 WALDEN AVE ,
ALDEN, NY
14004

EL.

Produit (001-C) SOLS CONTAMINES CELLULE

No Client 360-523

ZONE DE DÉCHARGEMENT : (C-3C) CELLULE 3C

LAIDLAW CARRIERS INC.
1179 RIDGEWAY ROAD,
WOODSTOCK, ON
N4S8P6

EL.

## DÉTAIL DES PRIX

| | | |
|---|---|---|
| POIDS BRUT | 121650 Lb | 55180 Kg |
| TARE : | 45990 Lb | 20860 Kg |
| POIDS NET : | 75660 Lb | 34320 Kg |

PRÉAVIS

DE TRAVAIL

COURTIER

D'IMMATRICULATION : (T3826B) LAIDLAW CARRIERS

MANIFEST (Can) 9663820-0

MANIFEST (US) 19443756JJK

DE CONNAISSEMENT :

AUTRES SERVICES

119937

### DÉCLARATION DU TRANSPORTEUR :

Je déclare que tous les renseignements ci-dessus sont véridiques et que le contenu de ma cargaison ne contient aucune matière dangereuse tel que défini par le Règlement sur les matières dangereuses du Québec.

Nom Carl Vowles
(CARACTÈRE D'IMPRIMERIE)

Signature Carl Vowles

**COPIE DU BUREAU**

# MOVEMENT DOCUMENT / MANIFEST
# DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

(6)

**9663820-0**

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

## A Generator / consignor — Producteur / expéditeur

Registration No. / Provincial ID No. — N° d'immatriculation - d'id. provincial 1: NYR000224758

Company name / Nom de l'entreprise: NRC EAST ENVIRONMENTAL Services, Inc.

Mailing address / Adresse postale: 4240, Albany Street — City / Ville: Colonie, New York 12205 — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél.: (518) 355-0197

Shipping site address / Adresse du lieu de l'expédition: 4240 Albany Street — City / Ville: Colonie, New York 12205 — Province — Postal code / Code postal

Intended Receiver / consignee — Réceptionnaire / destinataire prévu 2: HORIZON ENVIRONNEMENT — Registration No. / Provincial ID No. — N° d'immatriculation - d'id. provincial: 1142031856

Mailing address / Adresse postale: 120, route 155, Grandes Piles, Qc. — City / Ville — Province — Postal code / Code postal: G0X 1H0

E-mail / Courrier électronique: alefebvre@horizonenviro.com — Tel. No. / N° de tél.: 819-538-3921

Receiving site address / Adresse du lieu de destination: 120, route 155, TPUS-1365

City / Ville: Grandes Piles, Qc. — Province — Postal code / Code postal: G0X 1H0 CHE-3584

## B Carrier — Transporteur

Registration No. / Provincial ID No. — N° d'immatriculation - d'id. provincial 23: 1856-5FDPRT

Company name / Nom de l'entreprise: LAIDLAW CARRIERS BULK

Mailing address / Adresse postale: 340 UNIVERSAL RD — City / Ville: WOODSTOCK ON — Province — Postal code / Code postal: N4S0A9

E-mail / Courrier électronique — Tel. No. / N° de tél.: 800 336-3336

| Vehicle / Véhicule | Registration No. / N° d'immatriculation | Prov. 24 |
|---|---|---|
| Trailer - Rail car No. 1 / 1re remorque - wagon | T3876B | ON |
| Trailer - Rail car No. 2 / 2e remorque - wagon | | |

Port of entry / Point d'entrée (international use only): LACOLLE, QC

Port of exit / Point de sortie (international use only) 25: CHAMPLAIN, N.Y.

**Carrier Certification :** *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.* 26
***Attestation du transporteur** : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): CARL VOWLES — Tel. No. / N° de tél.: 705 872-2692

Year / Année: 16 — Month / Mois: 01 — Day / Jour: 03 — Signature:

## C Receiver / consignee — Réceptionnaire / destinataire

Registration No. / Provincial ID No. — N° d'immatriculation - d'id. provincial 28

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés 27: 619443756JJK

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A
☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél. ( )

Receiving site address / Adresse du lieu de destination

Date received / Date de réception — Year / Année: 20 — Month / Mois: 02 — Day / Jour: 04

Time / Heure 29: ☑ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les dechets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30

Registration No./Provincial ID No. — N° d'immatriculation/d'id provincial

| Prov. code / Code prov. 3 | Shipping name / Appellation réglementaire 4 | Class / Classe 5 — Sub. class(es) / Classe(s) sub. | UN No. / N° NU 6 | Packing / risk gr. / Gr. d'emballage / de risque 7 | Quantity shipped / Quantité expédiée | Units / L or / ou Kg / Unités 8 | Packaging / Contenant — No. / N° | Codes Int.– ext. 9 | Phys. state / État phys. 10 |
|---|---|---|---|---|---|---|---|---|---|
| (i) | Environmentally Hazardous Substances, Solid N.O.S. (Contaminated Soils) | 9 | UN3077 | III | 32000 | KG | 1 | 3 | S23 |
| (ii) | | | | | | | | | |
| (iii) | | | | | | | | | |
| (iv) | | | | | | | | | |

| Quantity received / Quantité reçue | Units / L or / ou kg / Unités 31 | Comments / Commentaires 32 | Handling Code / Code de manutention 33 | Shipment / Envoi — Accepted / Accepté 34 | Shipment / Envoi — Refused / Refusé 34 | Decont. — Pack. Cont. 35 | Decont. — Veh. Véh. 35 |
|---|---|---|---|---|---|---|---|
| 34320 | kg | — | 06 | ✓ | | | |
| WT Ref: 115078 | | | | | | | |

| Notice No. / N° de notification 11 | Notice Line No / N° de ligne de la notification | Shipment / Envoi 12 | Of / De | D or R code / Code D ou R 13 | C code / Code C 14 | Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15 | H code / Code H 16 | Y code / Code Y 17 | National code in country of / Code du pays — Export / Exportation 18 | Import / Importation | Customs code(s) / Code(s) de douanes 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (i) 706425 | 10 | 2 | /10 | D05 | C41 | A3160 | H13 | Y41 | N/A | | 3825.90.00.00 |
| (ii) | | | | | | | | | | | |
| (iii) | | | | | | | | | | | |
| (iv) | | | | | | | | | | | |

International use only

FOR EMERGENCY: CANUTEC 613-996-6666

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 36

***Receiver / consignee certification** : I certify that the information contained in Part C is correct and complete. / **Attestation du réceptionnaire / destinataire** : J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) 37

Signature — Tel. No. / N° de tél. ( )

Special handling / Manutention spéciale 22
☐ Attached /Ci-joint: ☐ As follows/ Ci-contre :

***Generator / consignor certification:** I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.*
***Attestation du producteur / expéditeur:** J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): David Salisbury — Tel. No. / N° de tél. 20: 802-923-1970

Signature

Date shipped / Date d'expédition 21 — Year / Année: 20 — Month / Mois: 03 — Day / Jour: 03 — Time / Heure: ☐ A.M. ☐ P.M.

Scheduled arrival date / Date d'arrivée prévue — Year / Année — Month / Mois — Day / Jour

**Instructions on reverse**
**Instructions au verso**

**Copy / Copie 3 (yellow / jaune)**

X20200203159512

(6)

Please print or type.

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| NYD986875219 | 1 | 877-818-0087 | 019443756 JJK |

**GENERATOR**

5. Generator's Name and Mailing Address
~~Labella Associates, DPC 300 State Street Rochester, New York, NY 14614~~ Walden Realty Limited Partnership/Doritex Corp
~~585-295-8830~~ 11980 Walden Ave. Alden, NY 14004 716-684-6600
Generator's Phone: Corp

Generator's Site Address (if different than mailing address)
Walden Realty Limited Partnerership / Doritex Corp.
11075 Walden Ave., Alden NY 14004

6. Transporter 1 Company Name: Laidlaw Carriers Bulk GP Inc
U.S. EPA ID Number: MIK 621 327 675

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Horizon Environnement Inc 120 Route 155 Grandes Piles Quebec G0X 1H0
U.S. EPA ID Number: NYR 000 078 964
Facility's Phone: (800) 545-7657

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| X | 1. RQ, Waste Environmentally Hazardous Substances, Solid, N.O.S., 9, UN3077, PGIII (F001 Perchloroethylene) | 1 | DT | 35 Estimated | T | F001 |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information
EPA Notice ID: 023706E19012. Soil Contaminated with Perchloroethylene (ERG 171)
Exporter: NRC East Environmental Services Inc., 4020 Albany St., Colonie NY 12205 EPA ID: NYR000224758

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Lori Radice
Signature
Month 1 Day 31 Year 20

**INT'L**

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain, NY
Transporter signature (for exports only): Carl Vowles
Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CARL VOWLES
Signature: Carl Vowles
Month 02 Day 03 Year 20

Transporter 2 Printed/Typed Name
Signature
Month Day Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Total Net Weight (kg): 34320
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ALEKSANDRA MIOSEVIC
Signature
Month 02 Day 04 Year 20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

WTRef: 115078

HORIZON ENVIRONNEMENT INC.
120, Route 155
Grandes-Piles (Québec) G0X 1H0
Tél. : 1-800-545-7657 • (819) 538-3921
Fax : (819) 538-0889
( ) -

# BILLET

N° T.P.S. : 140578741 RT

N° T.V.Q. : 1017578304

Provenance US

| | oui | non |
|---|---|---|
| plastique | ☑ | ☐ |
| lavage | ☐ | ☑ |

par: AM

| | |
|---|---|
| N° DU BILLET : | 115079 |
| N° DU CONTRAT : | CHE-3384 |
| BON DE COMMANDE : | TPU3-1365 |
| DATE : | 2020-02-04 |
| HEURE ENTRÉE : | 10:36 |
| HEURE SORTIE : | 11:11 |

3600653 CANADA INC.
155 LABELLE BLVD SUITE 101,
ROSEMÈRE, QC
J7A 2H2

L.

WALDEN REALTY LTD PARTNERSHIP
11980 WALDEN AVE ,
ALDEN, NY
14004

L.

Produit (001-C) SOLS CONTAMINES CELLULE

No Client 360-523

ZONE DE DÉCHARGEMENT : (C-3C) CELLULE 3C

LAIDLAW CARRIERS INC.
1179 RIDGEWAY ROAD,
WOODSTOCK, ON
N4S8P6

L.

## DÉTAIL DES PRIX

| | | |
|---|---|---|
| POIDS BRUT | 121800 Lb | 55250 Kg |
| TARE : | 45610 Lb | 20690 Kg |
| POIDS NET : | 76190 Lb | 34560 Kg |

PRÉAVIS

DE TRAVAIL

COURTIER
D'IMMATRICULATION : (P3798P) LAIDLAW CARRIERS

MANIFEST (Can) 9663819-2

MANIFEST (US) 19443755JJK
DE CONNAISSEMENT :

### DÉCLARATION DU TRANSPORTEUR :

Je déclare que tous les renseignements ci-dessus sont véridiques et que le contenu de ma cargaison ne contient aucune matière dangereuse tel que défini par le Règlement sur les matières dangereuses du Québec.

Nom LARRY Book
(CARACTÈRE D'IMPRIMERIE)

Signature Book

AUTRES SERVICES

119938

COPIE DU BUREAU

X20200203159100

Please print or type. Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| NYD986875219 | 1 | 877-818-0087 | 019443755 JJK |

**GENERATOR**

5. Generator's Name and Mailing Address
~~LaBella Associates DPC 300 State Street Rochester, New York, NY 14614~~
Walden Realty Limited Partnership/Doritex Corp
11980 Walden Ave.
Alden, NY 14004
Generator's Phone: ~~585-295-6835~~ 716-684-6600

Generator's Site Address (if different than mailing address)
Walden Realty Limited Partnerership / Doritex Corp
11075 Walden Ave., Alden NY 14004

6. Transporter 1 Company Name
Laidlaw Carriers Bulk GP Inc

U.S. EPA ID Number
MIK 621 327 675

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Horizon Environnement Inc. 120 Route 155 Grandes Piles Quebec G0X 1H0

U.S. EPA ID Number
NYR 000 078 964

Facility's Phone: (800) 545-7667

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| X | 1. RQ, Waste Environmentally Hazardous Substances, Solid N.O.S., 9, UN3077, PGIII (F001 Perchloroethylene) | 1 | DT | 35T Estimated | T | F001 | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
EPA Notice ID: 023706E19012. Soil Contaminated with Perchloroethylene (ERG 171)
Exporter: NRC East Environmental Services Inc., 4020 Albany St., Colonie NY 12205 EPA ID: NYR000224758

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Lori Rodier
Signature: [signature]
Month 1 Day 31 Year 20

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Champlain, NY
Transporter signature (for exports only): [signature] Date leaving U.S.: 2/3/20

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: LARRY BOOK
Signature: [signature]
Month 2 Day 3 Year 20

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Total Net Weight (lb): 34560
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ALEKSANDRA MILOSEVIC
Signature: [signature]
Month 02 Day 04 Year 20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

WTRef: 115079

# MOVEMENT DOCUMENT / MANIFEST
# DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

(7)

**9663819-2**

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

## A Generator / consignor / Producteur / expéditeur

1 Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: NYR000224758

Company name / Nom de l'entreprise: NRC EAST ENVIRONMENTAL Services, Inc.

Mailing address / Adresse postale: 4240, Albany Street — City / Ville: Colonie, New York 12205 — Province — Postal code / Code postal — Tel. No. / N° de tél.: 518 355-0197

Shipping site address / Adresse du lieu de l'expédition: 4240 Albany Street — City / Ville: Colonie, New York 12205 — Province — Postal code / Code postal

**Intended Receiver / consignee / Réceptionnaire / destinataire prévu**

2 Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: 1142031856

HORIZON ENVIRONNEMENT

Mailing address / Adresse postale: 120, route 155, Grandes Piles, Qc. — City / Ville — Province — Postal code / Code postal: G0X 1H0

E-mail / Courrier électronique: dlefebvre@horizonenviro.com — Tel. No. / N° de tél.: 819-538-3921

Receiving site address / Adresse du lieu de destination: TPUS-1385 — 120, route 155, — City / Ville: Grandes Piles, Qc. G0X 1H0 — Province — Postal code / Code postal: CHE-3384

## B Carrier / Transporteur

23 Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: 2856-SFDPRT.

Company name / Nom de l'entreprise: LAIDLAW Bulk.

Mailing address / Adresse postale: 240 Universal RD — City / Ville: Woodstock — Province: Ont — Postal code / Code postal: N4S-0A8

E-mail / Courrier électronique — Tel. No. / N° de tél.: 800 336 3336

| Vehicle / Véhicule | Registration No. / N° d'immatriculation | Prov. 24 |
|---|---|---|
| Trailer - Rail car No. 1 / 1re remorque - wagon | #047033 Plate #P37-98P. | Ont. |
| Trailer - Rail car No. 2 / 2e remorque - wagon | | |

Port of entry / Point d'entrée: LACOLLE, Qc. (International use only) — Port of exit / Point de sortie: CHAMPLAIN NY (International use only) — 25

**Carrier Certification :** *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.* **Attestation du transporteur :** *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.* 26

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): LARRY BOOK — Tel. No. / N° de tél.: 905 658-1039

Year / Année: 20 — Month / Mois: 02 — Day / Jour: 03 — Signature: Larry Book

## C Receiver / consignee / Réceptionnaire / destinataire

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 619443755 — 27

28 Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A
☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél. ( )

Receiving site address / Adresse du lieu de destination

29 Date received / Date de réception: Year / Année — Month / Mois — Day / Jour: 20 02 04 — Time / Heure: ☑ A.M. ☐ P.M.

30 If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire — Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

| (i) | 3 Prov. code / Code prov. | 4 Shipping name / Appellation réglementaire | 5 Class / Classe Sub. class(es) / Classe(s) sub. | 6 UN No. / N° NU | 7 Packing / risk gr. / Gr. d'emballage/ de risque | 8 Quantity shipped / Quantité expédiée | 8 Units / L or / ou Kg / Unités | 9 Packaging/Contenant No. / N° | 9 Codes Int.– ext. | 10 Phys. state / État phys. |
|---|---|---|---|---|---|---|---|---|---|---|
| (i) | N/A | Environmentally Hazardous Substances, Solid N.O.S. (Contaminated Soils) | 9 | UN3077 | III | 32000 | KG | 1 | 3 | S23 |
| (ii) | | | | | | | | | | |
| (iii) | | | | | | | | | | |
| (iv) | | | | | | | | | | |

| 31 Quantity received / Quantité reçue | 31 Units / L or / ou kg / Unités | 32 Comments / Commentaires | 33 Handling Code / Code de manutention | 34 Shipment / Envoi Accepted / Accepté | 34 Refused / Refusé | 35 Decont. Pack. / Cont. | 35 Veh. / Véh. |
|---|---|---|---|---|---|---|---|
| 34560 | kg | — | 06 | ✓ | | | |
| | | | | | | | |
| | | | | | | | |
| WT Ref: 1150779 | | | | | | | |

36 If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

| (i) | 11 Notice No. / N° de notification | 11 Notice Line No. / N° de ligne de la notification | 12 Shipment / Envoi | 12 Of / De | 13 D or R code / Code D ou R | 14 C code / Code C | 15 Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE | 16 H code / Code H | 17 Y code / Code Y | 18 National code in country of / Code du pays Export / Exportation | 18 Import / Importation | 19 Customs code(s) / Code(s) de douanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (i) | 706425 | 10 | 1 | /10 | D05 | C41 | A3160 | H13 | Y41 | N/A | | 3825.90.00.00 |
| (ii) | International use only | | | | | | | | | | | |
| (iii) | | | | | | | | | | | | |
| (iv) | | | | | | | | | | | | |

FOR EMERGENCY: CANUTEC 613-966-6666

**Generator / consignor certification:** *I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.* Empro Services: Cordell Sutton
**Attestation du producteur / expéditeur:** *J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): David P Salisbury — Tel. No. / N° de tél.: 807)923-1970 — 20

Signature

**Receiver / consignee certification :** *I certify that the information contained in Part C is correct and complete.* / **Attestation du réceptionnaire / destinataire :** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) — 37

Signature — Tel. No. / N° de tél. ( )

Special handling / Manutention spéciale — 22
☐ Attached / Ci-joint: ☐ As follows / Ci-contre :

21 Date shipped / Date d'expédition: Year / Année: 20 — Month / Mois: 02 — Day / Jour: 03 — Time / Heure: ☐ A.M. ☐ P.M.

Scheduled arrival date / Date d'arrivée prévue: Year / Année — Month / Mois — Day / Jour

**Instructions on reverse**
**Instructions au verso**

**Copy / Copie 3 (yellow / jaune**

HORIZON ENVIRONNEMENT INC.
120, Route 155
Grandes-Piles (Québec) G0X 1H0
Tél. : 1-800-545-7657 • (819) 538-3921
Fax : (819) 538-0889
( ) -

# BILLET

N° T.P.S. : 140578741 RT

N° T.V.Q. : 1017578304

| Provenance US | oui | non |
|---|---|---|
| plastique | ☑ | ☐ |
| lavage | ☐ | ☑ |

par: AM

| | |
|---|---|
| N° DU BILLET : | 115081 |
| N° DU CONTRAT : | CHE-3384 |
| BON DE COMMANDE : | TPUS-1365 |
| DATE : | 2020-02-04 |
| HEURE ENTRÉE : | 10:38 |
| HEURE SORTIE : | 11:19 |

3600653 CANADA INC.
155 LABELLE BLVD SUITE 101,
ROSEMÈRE, QC
J7A 2H2

L.

WALDEN REALTY LTD PARTNERSHIP
11980 WALDEN AVE ,
ALDEN, NY
14004

L.

Produit (001-C) SOLS CONTAMINES CELLULE

No Client 360-523

ZONE DE DÉCHARGEMENT : (C-3C) CELLULE 3C

LAIDLAW CARRIERS INC.
1179 RIDGEWAY ROAD,
WOODSTOCK, ON
N4S8P6

L.

## DÉTAIL DES PRIX

| | | |
|---|---|---|
| POIDS BRUT | 120720 Lb | 54760 Kg |
| TARE : | 46120 Lb | 20920 Kg |
| POIDS NET : | 74600 Lb | 33840 Kg |

PRÉAVIS

DE TRAVAIL

COURTIER D'IMMATRICULATION : (H6601A) LAIDLAW CARRIERS

MANIFEST (Can) 9663821-8

MANIFEST (US) 19443758JJK

DE CONNAISSEMENT :

### DÉCLARATION DU TRANSPORTEUR :

Je déclare que tous les renseignements ci-dessus sont véridiques et que le contenu de ma cargaison ne contient aucune matière dangereuse tel que défini par le Règlement sur les matières dangereuses du Québec.

Nom PATRICK (CARACTÈRE D'IMPRIMERIE)

Signature

AUTRES SERVICES

119940

COPIE DU BUREAU

# MOVEMENT DOCUMENT / MANIFEST
# DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

8

**9663821-8**

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

## A Generator / consignor / Producteur / expéditeur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1: NYR000224758

Company name / Nom de l'entreprise: NRC EAST ENVIRONMENTAL Services, Inc.

Mailing address / Adresse postale: 4240, Albany Street | City / Ville: Colonie, New York 12205 | Province | Postal code / Code postal

E-mail / Courrier électronique | Tel. No. / N° de tél.: 518 355-0197

Shipping site address / Adresse du lieu de l'expédition: 4240 Albany Street

City / Ville: Colonie, New York 12205 | Province | Postal code / Code postal

**Intended Receiver / consignee / Réceptionnaire / destinataire prévu** 2
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: 1142031856

HORIZON ENVIRONNEMENT

Mailing address / Adresse postale: 120, route 155, Grandes Piles, Qc, G0X 1H0 | City / Ville | Province | Postal code / Code postal

E-mail / Courrier électronique: slebevre@horizonenviro.com | Tel. No. / N° de tél.: 819-538-3921

Receiving site address / Adresse du lieu de destination: TPUS-1365

120, route 155,

City / Ville: Grandes Piles, Qc. | Province | Postal code / Code postal: G0X 1H0 CHE-3384

## B Carrier / Transporteur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23: 2856 - SFO PRT

Company name / Nom de l'entreprise: LAIDLAW CARRIERS BULK

Mailing address / Adresse postale: 240 Universal Rd | City / Ville: Woodstock | Province: ON | Postal code / Code postal: N4S 0A6

E-mail / Courrier électronique | Tel. No. / N° de tél.: 800 336-3336

| Vehicle / Véhicule | Registration No. / N° d'immatriculation | Prov. 24 |
|---|---|---|
| Trailer - Rail car No. 1 / 1re remorque - wagon | ~~T-38063~~ H6601A | ON |
| Trailer - Rail car No. 2 / 2e remorque - wagon | | |

Port of entry / Point d'entrée: LACOLLE, QC (International use only) | Port of exit / Point de sortie (International use only): CHAMPLAIN NY 25

**Carrier Certification :** *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.* 26
***Attestation du transporteur :*** *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): PAT FOLAN | Tel. No. / N° de tél.

Year / Année: 20 | Month / Mois: 02 | Day / Jour: 03 | Signature:

## C Receiver / consignee / Réceptionnaire / destinataire

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 28

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés 27: 0194437 58 JJK

Receiver / consignee information same as in Part A
Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A
☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville | Province | Postal code / Code postal

E-mail / Courrier électronique | Tel. No. / N° de tél. ( )

Receiving site address / Adresse du lieu de destination

Date received / Date de réception: Year / Année | Month / Mois | Day / Jour | Time / Heure 29: ☑ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 | Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

| Prov. code / Code prov. 3 | Shipping name / Appellation réglementaire 4 | Class / Classe Sub. class(es) / Classe(s) sub. 5 | UN No. / N°NU 6 | Packing / risk gr. / Gr. d'emballage/ de risque 7 | Quantity shipped / Quantité expédiée 8 | Units / L or / ou Kg / Unités 8 | Packaging/Contenant No. / N° 9 | Packaging/Contenant Codes Int.– ext. 9 | Phys. state / État phys. 10 |
|---|---|---|---|---|---|---|---|---|---|
| (i) N/A | Environmentally Hazardous Substances, Solid N.O.S. (Contaminated Soils) | 9 | UN3077 | III | 33,000 | KG | 1 | 3 | S23 |
| (ii) | | | | | | | | | |
| (iii) | | | | | | | | | |
| (iv) | | | | | | | | | |

| Quantity received / Quantité reçue 31 | Units / L or / ou Kg / Unités 31 | Comments / Commentaires 32 | Handling Code / Code de manutention 33 | Shipment / Envoi Accepted / Accepté 34 | Shipment / Envoi Refused / Refusé 34 | Decont. Pack. / Cont. 35 | Decont. Veh. / Véh. 35 |
|---|---|---|---|---|---|---|---|
| 33840 | kg | ~ | 06 | V | | | |
| | | | | | | | |
| | | | | | | | |
| | | WTRef: 115081 | | | | | |

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 36

| Notice No. / N° de notification 11 | Notice Line No. / N° de ligne de la notification 11 | Shipment / Envoi 12 | Of / De 12 | D or R code / Code D ou R 13 | C code / Code C 14 | Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15 | H code / Code H 16 | Y code / Code Y 17 | National code in country of / Code du pays: Export / Exportation 18 | Import / Importation 18 | Customs code(s) / Code(s) de douanes 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (i) 706428 | 10 | 3 | /10 | D05 | C41 | A3160 | H13 | Y41 | N/A | | 3825,90,00,00 |
| (ii) | | | | | | | | | | | |
| (iii) | International use only | | | | | | | | | | |
| (iv) | | | | | | | | | | | FOR EMERGENCY: CANUTEC 613-996-6666 |

***Receiver / consignee certification :*** *I certify that the information contained in Part C is correct and complete. /* ***Attestation du réceptionnaire / destinataire :*** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) 37

Signature | Tel. No. / N° de tél. ( )

Special handling / Manutention spéciale 22
☐ Attached /Ci-joint: ☐ As follows/ Ci-contre :

***Generator / consignor certification:*** *I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.*
Enpro Services: Cordell Sutton
***Attestation du producteur / expéditeur:*** *J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) 20: David Salisbury | Tel. No. / N° de tél.: 902-923-1970

Signature

Date shipped / Date d'expédition 21: Year / Année: 2002 | Month / Mois: 03 | Day / Jour: 04 | Time / Heure: ☐ A.M. ☐ P.M. | Scheduled arrival date / Date d'arrivée prévue: Year / Année: 2002 | Month / Mois: 03 | Day / Jour: 04

**Instructions on reverse**
**Instructions au verso**

**Copy / Copie 3 (yellow / jaune**

X2020020317872 9

Please print or type. Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| NYD986875219 | 1 | 877-318-0087 | 019443758 JJK |

**GENERATOR**

5. Generator's Name and Mailing Address
~~Taetle Associates EPC 300 State Street Rochester, New York, NY 14614~~
Walden Realty Limited Partnership/Doritex Corp
~~585-295-6630~~ 11980 Walden Ave. Alden, NY 14004
Generator's Phone: ~~585-295-6630~~ 716 684-6600

Generator's Site Address (if different than mailing address)
Walden Realty Limited Partnererership / Doritex Corp.
11075 Walden Ave., Alden NY 14004

6. Transporter 1 Company Name: Laidlaw Carriers Bulk GP Inc
U.S. EPA ID Number: MIK 621 327 675

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Horizon Environnement Inc 120 Route 155 Grandes Piles Quebec G0X 1H0
U.S. EPA ID Number: NYR 000 078 964
Facility's Phone: (800) 545-7667

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| X | 1. RQ, Waste Environmentally Hazardous Substances, Solid N.O.S., 9, UN3077, PGIII (F001 Perchloroethylene) | 1 | DT | 33,000 kg Estimated | T | F001 | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
EPA Notice ID: 023706E19012. Soil Contaminated with Perchloroethylene (ERG 171)
Exporter: NRC East Environmental Services Inc., 4020 Albany St., Colonie NY 12205 EPA ID: NYR000224758

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. 02-03-20

Generator's/Offeror's Printed/Typed Name: Lori Radice
Signature: Lori Radice
Month 1 ~~31~~ Day Year 20

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Champlain, NY
Transporter signature (for exports only): Date leaving U.S.: 02-03-20

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PAT FOLAND
Signature:
Month 02 Day 03 Year 20

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Total Net Weight (kg): 33840
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ALEKSANDRA MILOSEVIC
Signature:
Month 02 Day 04 Year 20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. **DESIGNATED/FACILITY TO EPA's e-MANIFEST SYSTEM**

WTRef: 115081

HORIZON ENVIRONNEMENT INC.
120, Route 155
Grandes-Piles (Québec) G0X 1H0
Tél. : 1-800-545-7657 • (819) 538-3921
Fax : (819) 538-0889
( ) -

# BILLET

N° T.P.S. : 140578741 RT

N° T.V.Q. : 1017578304

**Provenance US**

| | oui | non |
|---|---|---|
| plastique | ☑ | ☐ |
| lavage | ☐ | ☑ |

par: AM

| | |
|---|---|
| N° DU BILLET : | 115100 |
| N° DU CONTRAT : | CHE-3384 |
| BON DE COMMANDE : | TPUS-1365 |
| DATE : | 2020-02-04 |
| HEURE ENTRÉE : | 15:16 |
| HEURE SORTIE : | 15:42 |

3600653 CANADA INC.
155 LABELLE BLVD SUITE 101,
ROSEMÈRE, QC
J7A 2H2

WALDEN REALTY LTD PARTNERSHIP
11980 WALDEN AVE ,
ALDEN, NY
14004

Produit (001-C) SOLS CONTAMINES CELLULE

No Client 360-523

ZONE DE DÉCHARGEMENT : (C-3C) CELLULE 3C

PETER HODGE LTD
100 MARKET DRIVE,
MILTON, ON

## DÉTAIL DES PRIX

| | | |
|---|---|---|
| POIDS BRUT : | 47110 Lb | 21370 Kg |
| TARE : | 38650 Lb | 17530 Kg |
| POIDS NET : | 8470 Lb | 3840 Kg |

PRÉAVIS

I DE TRAVAIL

COURTIER

D'IMMATRICULATION : (E2967K) PETER HODGE LTD

MANIFEST (Can) 9663822-6

MANIFEST (US) 19443757JJK

DE CONNAISSEMENT :

**DÉCLARATION DU TRANSPORTEUR :**

Je déclare que tous les renseignements ci-dessus sont véridiques et que le contenu de ma cargaison ne contient aucune matière dangereuse tel que défini par le Règlement sur les matières dangereuses du Québec.

Nom Fred Van Elburg
(CARACTÈRE D'IMPRIMERIE)

Signature

AUTRES SERVICES

119959

**COPIE DU BUREAU**

# MOVEMENT DOCUMENT / MANIFEST
# DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

(5)

**9663822-6**

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

## A Generator / consignor / Producteur / expéditeur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1: NYR000224758

Company name / Nom de l'entreprise: NRC EAST ENVIRONMENTAL Services, Inc.

Mailing address / Adresse postale: 4240, Albany Street
City / Ville: Colonie, New York 12205
Province:
Postal code / Code postal:

E-mail / Courrier électronique:
Tel. No. / N° de tél.: (518) 355-0197

Shipping site address / Adresse du lieu de l'expédition: 4240 Albany Street
City / Ville: Colonie, New York 12205
Province:
Postal code / Code postal:

**Intended Receiver / consignee / Réceptionnaire / destinataire prévu** 2
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: 1142031856

HORIZON ENVIRONNEMENT

Mailing address / Adresse postale: 120, route 155, Grandes Piles, Qc, G0X 1H0
City / Ville:
Province:
Postal code / Code postal:

E-mail / Courrier électronique: alelebvre@horizonenviro.com
Tel. No. / N° de tél.: 819-538-3921

Receiving site address / Adresse du lieu de destination: TPUS-1365
City / Ville: Grandes Piles, Qc, G0X 1H0
Province:
Postal code / Code postal: CHE-3368

## B Carrier / Transporteur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23: 2856-5 FD PRT

Company name / Nom de l'entreprise: Peter Hudge Laidlaw NYSoo

Mailing address / Adresse postale: 240 Universal Rd
City / Ville: Woodstock
Province: On
Postal code / Code postal:

E-mail / Courrier électronique:
Tel. No. / N° de tél.: (905) 336-3336

| Vehicle / Véhicule | Registration No. / N° d'immatriculation | Prov. 24 |
|---|---|---|
| Trailer - Rail car No. 1 / 1re remorque - wagon | 447370 E29-67K | On |
| Trailer - Rail car No. 2 / 2e remorque - wagon | | |

Port of entry / Point d'entrée: LaColle Qc (International use only)
Port of exit / Point de sortie: Champlain NY (International use only) 25

**Carrier Certification :** *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.* 26
***Attestation du transporteur** : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorité (caractères d'imprimerie): Fred Van Elburg
Tel. No. / N° de tél.: (905) 957-7671
Year / Année: 2002 Month / Mois: 04 Day / Jour: 04
Signature:

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés 27: 019443757 JJK

## C Receiver / consignee / Réceptionnaire / destinataire

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 28:

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A
☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise:
Mailing address / Adresse postale:
City / Ville:
Province:
Postal code / Code postal:
E-mail / Courrier électronique:
Tel. No. / N° de tél.: ( )
Receiving site address / Adresse du lieu de destination:

Date received / Date de réception 29
Year / Année: 20 Month / Mois: 02 Day / Jour: 04
Time / Heure: ☑ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les dechets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30
Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

| Prov. code / Code prov. 3 | Shipping name / Appellation réglementaire 4 | Class / Classe 5 Sub. class(es) / Classe(s) sub. | UN No. / N°NU 6 | Packing / risk gr. / Gr. d'emballage/ de risque 7 | Quantity shipped / Quantité expédiée | Units / L or / ou Kg / Unités 8 | Packaging/Contenant 9 No. / N° | Codes Int.– ext. | Phys. state / Etat phys. 10 |
|---|---|---|---|---|---|---|---|---|---|
| (i) N/A | Environmentally Hazardous Substances, Solid N.O.S. (Contaminated Soils) | 9 | UN3077 | III | 1800 | KG | 1 | 3 | S23 |
| (ii) | | | | | | | | | |
| (iii) | | | | | | | | | |
| (iv) | | | | | | | | | |

| Quantity received / Quantité reçue | Units / L or / ou Kg / Unités 31 | Comments / Commentaires 32 | Handling Code / Code de manutention 33 | Shipment / Envoi 34 Accepted / Accepté | Refused / Refusé | Decont. 35 Pack. / Cont. | Veh. / Véh. |
|---|---|---|---|---|---|---|---|
| 3840 | kg | / | 06 | ✓ | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

WTRef: 1157000

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 36

| Notice No. / N° de notification | Notice Line No / N° de ligne de la notification 11 | Shipment / Envoi 12 | Of / De | D or R code / Code D ou R 13 | C code / Code C 14 | Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15 | H code / Code H 16 | Y code / Code Y 17 | National code in country of / Code du pays 18 Export / Exportation | Import / Importation | Customs code(s) / Code(s) de douanes 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (i) 706426 | 10 | 4 | /10 | D05 | C41 | A3180 | H13 | Y41 | N/A | | 3825.90.00.00 |
| (ii) | | | | | | | | | | | |
| (iii) | | | | | | | | | | | |
| (iv) | | | | | | | | | | | |

International use only

FOR EMERGENCY: CANUTEC 613-868-6868

***Receiver / consignee certification** : I certify that the information contained in Part C is correct and complete. / **Attestation du réceptionnaire / destinataire** : J'atteste que tous les renseignements à la partie C sont exacts et complets.* 37

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie)
Signature
Tel. No. / N° de tél.: ( )

Special handling / Manutention spéciale 22
☐ Attached /Ci-joint: ☐ As follows/ Ci-contre :

***Generator / consignor certification:** I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.*
***Attestation du producteur / expéditeur:** J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.* 20

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): David Salisbury
Tel. No. / N° de tél.: 802-823-1970
Signature

Date shipped / Date d'expédition 21
Year / Année: 20 Month / Mois: 02 Day / Jour: 04
Time / Heure: ☐ A.M. ☐ P.M
Scheduled arrival date / Date d'arrivée prévue
Year / Année: Month / Mois: Day / Jour:

**Instructions on reverse**
**Instructions au verso**

**Copy / Copie 3 (yellow / jaune)**

X2020020180407

Please print or type. Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number |
|---|---|---|---|
| NYD986875219 | 1 | 877-818-0087 | 019443757 JJK |

**GENERATOR**

5. Generator's Name and Mailing Address
~~LaBella Associates DPC 300 State Street, Rochester, NY~~
Walden Realty Limited Partnership/Doritex Corp
~~Rochester, NY 14614~~ 11980 Walden Ave.
Alden, NY 14004
Generator's Phone: ~~585-295-6930~~ 716-684-6600

Generator's Site Address (if different than mailing address)
Walden Realty Limited Partnership / Doritex Corp
11075 Walden Ave., Alden NY 14004

6. Transporter 1 Company Name: Laidlaw Carriers Bulk GP Inc — U.S. EPA ID Number: MIK 621 327 675

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Horizon Environnement Inc. 120 Route 155 Grandes Piles Quebec G0X 1H0 — U.S. EPA ID Number: NYR 000 078 964

Facility's Phone: (800) 545-7657

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|---|---|---|---|---|---|---|---|---|
| X | 1. RQ, Waste Environmentally Hazardous Substances, Solid N.O.S., 9, UN3077, PGIII (F001 Perchloroethylene) | 1 | DT | 4,000 Estimated | T | F001 | | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
EPA Notice ID: 023706E19012. Soil Contaminated with Perchloroethylene (ERG 171)
Exporter: NRC East Environmental Services Inc., 4020 Albany St., Colonie NY 12205 EPA ID: NYR000224758

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Lori Radice — Signature: [signature] — Month: 1 Day: 31 Year: 20

**INT'L**

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain, NY
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Peter Hodge — Signature: [signature] — Month: 2 Day: 3 Year: 20

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Total Net Weight (lb): 3840
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ALEKSANDRA MILOSEVIC — Signature: [signature] — Month: 02 Day: 04 Year: 20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. **DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM**

WTRef: 115100

# AMERICAN RECYCLERS COMPANY
## Waste Profile Report (WPR)

| 177 Wales Avenue<br>Tonawanda, New York 14151<br>*Phone (716) 695-6720 Fax (716) 695-0161* | **APPROVAL NUMBER:** X-16844L<br>**EXPIRATION DATE:**<br>**HANDLING CODE:** L |
|---|---|

Generator: Former Doritex BCP No. C915333 EPA ID #:

Address: 11075 Walden Avenue Contact: Jim Doro

City Alden STATE: NY ZIP: 14004 Phone: (716) 570-8075 Fax:

| Waste Name: Non Hazardous Debris | Shipping Name: Non RCRA Non DOT Regulated |
|---|---|
| Generating Process: Facility Cleaning | |
| | Rate of Generation: Once |
| | Container Type: 55 Gal Steel 1A1 |

| Composition of Waste | % | | % |
|---|---|---|---|
| Cleaning Debris | 100 - | | |
| | | | |
| | | | |
| | | | |

| Phase | % |
|---|---|
| Solids | |
| Liquid | |
| Sludge | |
| Debris | |

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

*Check all below which apply:*

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

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

**Signer Title** President

**Company** DORITEX CORP.

**Signed:** James J. Doro **Print:** JAMES J. DORO **Date:** 6/1/2020

*ARC Presonel Reviewed and Approved by:*

**Approved by:** **Print: Tom Martin** **Date:**

# AMERICAN RECYCLERS COMPANY
## Waste Profile Report (WPR)

| 177 Wales Avenue<br>Tonawanda, New York 14151<br>*Phone (716) 695-6720 Fax (716) 695-0161* | APPROVAL NUMBER: A-16846L<br>EXPIRATION DATE:<br>HANDLING CODE: L |
|---|---|

Generator: Former Doritex BCP No. C915333 EPA ID #:

Address: 11075 Walden Avenue Contact: Jim Doro

City Alden STATE: NY ZIP: 14004 Phone: (716) 570-8075 Fax:

| Waste Name: Soil Cuttings | Shipping Name: Non RCRA Non DOT Regulated |
|---|---|
| Generating Process: Collection of soil samples | Rate of Generation: Once |
| | Container Type: 55 Gal Steel 1A2 |

| Composition of Waste | % | | % |
|---|---|---|---|
| Soil Borings | 100 - 100 | | |
| Analytical Attached | - | | |
| | | | |
| | | | |

| Phase | % |
|---|---|
| Solids | |
| Liquid | |
| Sludge | |
| Debris | |

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

*Check all below which apply:*

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

List all Lab Pack Container Numbers:
*(Attach packing slips to profile)*

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

Signer Title President

Company DORITEX CORP.

**Signed:** James J. Doro **Print:** JAMES J. DORO **Date:** 6/1/2020

*ARC Presonel Reviewed and Approved by:*

**Approved by:** **Print: Tom Martin** **Date:**

# AMERICAN RECYCLERS COMPANY
## Waste Profile Report (WPR)

| | |
|---|---|
| 177 Wales Avenue<br>Tonawanda, New York 14151<br>*Phone (716) 695-6720 Fax (716) 695-0161* | **APPROVAL NUMBER:** H-16845IN<br>**EXPIRATION DATE:**<br>**HANDLING CODE:** B |

Generator: Former Doritex BCP No. C915333 EPA ID #:

Address: 11075 Walden Avenue Contact: Jim Doro

City Alden STATE: NY ZIP: 14004 Phone: (716) 570-8075 Fax:

| | |
|---|---|
| Waste Name: Purge Water | Shipping Name: Non RCRA Non DOT Regulated |
| Generating Process: groundwater sampling event | |
| | Rate of Generation: Once |
| | Container Type: Tote |

| Composition of Waste | % | | % |
|---|---|---|---|
| Purge water / IDW | 95 - 100 | | |
| Sediments | 0 - 5 | | |
| | | | |
| | | | |

| Phase | % |
|---|---|
| Solids | |
| Liquid | |
| Sludge | |
| Debris | |

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

*Check all below which apply:*

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

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

Signer Title President

Company DORITEX CORP.

**Signed:** James J. Doro **Print:** JAMES J. DORO **Date:** 6/1/2020

*ARC Presonel Reviewed and Approved by:*

**Approved by:** **Print: Tom Martin** **Date:**

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| | 1 | 800-535-5053 | 34863 |

**GENERATOR**

5. Generator's Name and Mailing Address
J&M Walden Holdings Corp.'s
112 Halston Parkway
East Amherst, NY 14051
Generator's Phone: (716) 570-8075

Generator's Site Address (if different than mailing address)
Former Dortex BCP No. C915333
11075 Walden Avenue
Alden, NY 14004

6. Transporter 1 Company Name: Environmental Service Group, Inc — 716.695.6720 — U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720 — U.S. EPA ID Number: NYR000030809

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA Non DOT Regulated , -, (Debris) | 001 | DM | 0500 | P | EST Weight |
| 2. | Non RCRA Non DOT Regulated, (Soil Cuttings) | 006 | DM | 03000 | P | EST Weight |
| 3. | Non RCRA Non DOT Regulated , (Purge Water) | 001 | TP | 0160 | G | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information

ERG:
1 -
2 -
3 -
4 -

Approval #:
1 - X-16844L
2 - A-16846L
3 - H-16845IN
4 -

Handling Codes:
1 - None
2 - None
3 - None
4 -

24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Julia Torres (LaBella Associates DPC) — Signature: Julia K Torres — Month: 06 — Day: 10 — Year: 20

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:
Transporter Signature (for exports only): — Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sean P. Winter — Signature: Sean P. Winter — Month: 06 — Day: 10 — Year: 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Ranville — Signature: Justin Ranville — Month: 06 — Day: 10 — Year: 20

TRANSPORTER #1

# AMERICAN RECYCLERS COMPANY
## Waste Profile Report (WPR)

| 177 Wales Avenue<br>Tonawanda, New York 14151<br>*Phone (716) 695-6720 Fax (716) 695-0161* | **APPROVAL NUMBER:** H-17369IN<br>**EXPIRATION DATE:** 10/5/2022<br>**HANDLING CODE:** B |
|---|---|

Generator: J&M Walden Holdings Corp. EPA ID #:

Address: 11075 Walden Avenue Contact: Adam Zebrowski

City Alden STATE: NY ZIP: 14004 Phone: 716-840-2548 Fax:

| Waste Name: Purge Water | Shipping Name: Non RCRA Non DOT Regulated |
|---|---|
| Generating Process: Well Monitoring | Rate of Generation: Once |
| | Container Type: 55 Gal Steel 1A2 |

| Composition of Waste | % | | % |
|---|---|---|---|
| Purge water | 100 - 100 | | |
| | | | |
| | | | |
| | | | |

| Phase | % |
|---|---|
| **Solids** | |
| **Liquid** | |
| Sludge | |
| **Debris** | |

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

*Check all below which apply:*

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

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

**Signer Title** Project Manager

**Company** LaBella Associates, D.P.C.

**Signed:** Adam Zebrowski **Print:** Adam Zebrowski **Date:** 10/8/2020

*ARC Presonel Reviewed and Approved by:*

**Approved by:** **Print: Tom Martin** **Date:**

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| | 1 | 800-535-5053 | 36174 |

**GENERATOR**

5. Generator's Name and Mailing Address
J and M Walden Holdings Corp
11075 Walden Avenue
Alden, NY 14004
Generator's Phone: 716-849-2548

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Environmental Service Group, Inc 716.695.6720 — U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
American Recyclers Company
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720 — U.S. EPA ID Number: NXR000036809

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non RCRA Non DOT Regulated Purge Water. | 001 | DM | 055 | G | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
Also Fills: Approval #: 1 H-17369IN
1 - 2 - 3 - 4 -
Handling Codes:
1 - None
2 - 3 - 4 -
24 Hour Emergency Contact:
INFOTRAC (Caller Must ID ESG)
Consult ERG#:

**14. GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Julian Mastropoll (As Agent) — Signature — Month 10 Day 09 Year 20

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Sean P. Winter — Signature — Month 10 Day 09 Year 20

Transporter 2 Printed/Typed Name — Signature — Month Day Year

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Rainville — Signature — Month 10 Day 01 Year 20

DESIGNATED FACILITY TO GENERATOR