
PERIODIC REVIEW REPORT

for

295 LOCUST AVENUE

Bronx, New York

BCP Site No.: C203053

Prepared For:

BPA North LLC

42-22 22nd Street

Long Island City, NY 11101

Prepared By:

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ATTACHMENTS

Attachment A	Previous Reports
Attachment B	Periodic Review Report EC/IC Certification Form
Attachment C	Photographic Log
Attachment D	Site Inspection Forms
Attachment E	SSDS Blower Inspection Logs
Attachment F	Soil Vapor Mitigation Construction Logs
Attachment G	Soil Vapor Sampling Logs
Attachment H	Soil Vapor Mitigation System Details
Attachment I	Soil Vapor Sampling Laboratory Analytical Data

1.0 INTRODUCTION

This Periodic Review Report (PRR) documents annual sampling and site inspections at the 295 Locust Avenue site from July 1, 2017 to July 30, 2018 per the requirements of the April 2015 Site Management Plan (SMP). The site is located at 295 Locust Avenue in the Port Morris neighborhood of the Bronx, New York. A site location map is provided as Figure 1. The site is also identified on the New York City Tax Map as Bronx Tax Lot 2598, Lots 46, 74, and 86. The site was remediated under the Brownfield Cleanup Program ([BCP] Site No. C203053) and a Certificate of Completion (COC) was issued by the New York State Department of Environmental Conservation (NYSDEC) in July 2015.

As the site was not remediated to Track 1 standards, engineering controls and institutional controls (EC/IC) were implemented. There have been no changes or actions in Lots 74 and 86 since the COC was issued. Lot 46 was renovated during the previous reporting period (July 13, 2015 to June 30, 2017). All former intrusive construction activities in Lot 46 were completed in accordance with the April 2015 SMP, prepared by TechSolutions Engineering, P.C. (TechSolutions). Figure 2 identifies the site areas and tax lots subject to the requirements of the SMP. A copy of the SMP and previous reports are provided as Attachment A.

The approximately 80,000-square-foot site is improved with an approximately 10,000-square-foot, asphalt-paved parking lot (Lots 74 and 86) and a 70,000-square-foot television and film production facility (Lot 46).

This report is organized as follows:

- Periodic Review Report Certification (Section 2) - Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) documented that ECs/ICs were operated, maintained and monitored in accordance with the SMP.
- SMP Operations Report (Section 3) - Site management operations included replacement of one sub-slab depressurization system (SSDS) blower (B-3) on July 26, 2018. Langan provided professional engineering services to document this SMP operation.
- SMP Inspections and Sampling (Section 4) - Langan completed annual soil vapor and indoor air sampling and performed site inspections in accordance with the SMP.

2.0 PERIODIC REVIEW REPORT CERTIFICATION

2.1. Institutional Controls

The institutional control for the site is an environmental easement to restrict land use and prevent future exposure to contamination remaining at the site. There have been no changes or actions since the COC that require modification to the environmental easement.

2.2. Engineering Controls

The engineering controls for the commercial site include: 1) a composite cover system for Tax Block 2598, Lots 46, 74 and 86 consisting of concrete slabs and asphalt covered roads; and 2) an active SSDS for Lot 46. Engineering controls were inspected three times between May 15 and July 26, 2018. Observations are described in Sections 3 and 4.

2.3. Institutional and Engineering Controls Certificate

Due to redevelopment construction activities at the site during the previous reporting period of July 13, 2015 through June 30, 2017, the certification period was revised by NYSDEC. The certification period covered by this report is July 1, 2017 through July 30, 2018. SMP operations, as described in Section 3, and annual inspections and sampling, as described in Section 4, were completed in accordance with the requirements of the BCP as certified by the owner and Professional Engineer in the EC/IC Certificate Form. The completed and signed EC/IC Certificate Form is provided as Attachment B.

3.0 SMP OPERATIONS

SMP operation activities were performed on July 26, 2018 on behalf of the owner, BPA North LLC. Photographs of site operations are included as Attachment C.

3.1. Engineering Controls

3.1.1 SSDS

The active SSDS consists of five wells connected via 6-inch-diameter polyvinyl chloride (PVC) pipes, which are routed to five Radonaway® RP380 blowers (B-1 through B-5) that are located on the eastern mezzanine level of the building. The blowers are connected to an 8-inch-diameter effluent line that discharges to the roof. During Langan's annual site inspection and sampling event conducted on May 24, 2018, blower B-3 was not operational. The remaining four SSDS blowers were operational. The NYSDEC Case Manager was notified, and the blower was replaced on July 26, 2018 by Brookside Environmental Inc. (Brookside). Blower replacement was documented by Langan.

On July 26, 2018, Brookside and Langan mobilized to the site to replace blower B-3 located on the eastern mezzanine level of the building. Power to the blower manifold was temporarily shut off during repair work and the ball valve of blower B-3 was closed to prevent soil vapor migration into the manifold room. Brookside installed a new Radonaway RP380 blower at B-3 and applied silicone sealant to the connection between the blower and the new flexible couplings. Following blower installation, Langan collected vacuum, velocity and organic vapor readings. The blower was observed to be operating as designed.

Photographs of blower replacement and installation activities are included as Attachment C.

3.1.2 Composite Cover System

No SMP operations impacted the site composite cover system.

3.2. Compliance with SMP

Specific SMP measures are described in the following sections.

3.2.2 Construction Health and Safety Plan

Sampling activities were in compliance with the site-specific Construction Health and Safety Plan (CHASP) and applicable laws and regulations. The health and safety Program Manager for Langan was William Bohrer.

3.2.3 Community Air Monitoring Plan

SMP operation activities included replacement of one SSDS blower (B-3). No intrusive activities were conducted during the reporting period; therefore, community air monitoring was not necessary.

3.2.4 Soils/Materials Management Plan

The SMP provides detailed plans for managing soil/materials at the site, including excavation, material handling, stockpile management, transport and disposal. The SMP includes controls to guide effective remedial activity in compliance with applicable laws and regulations. Construction activities were conducted in accordance with the SMP Soil/ Materials Management Plan.

3.2.4.1 Material Handling and Excavation

No soil handling activities were performed during this reporting period.

3.2.4.2 Erosion and Dust Control

No ground-intrusive activities were performed during this reporting period and therefore no erosion and dust control measures were required.

3.2.4.3 Stockpile Management

No ground intrusive or soil handling activities were performed during this reporting period.

3.2.4.4 Fluids Management

No fluids requiring treatment and off-site disposal were generated during this reporting period.

3.2.4.5 Transport and Off-Site Disposal

No import or export of soil/fill was performed during this reporting period.

3.2.5 Stormwater Pollution Prevention

Construction activities occurred indoors, and the entire site footprint is covered with a concrete slab with infrastructure for drainage; therefore, stormwater pollution prevention measures were not necessary.

3.2.6 Site Security

The site building and all loading docks/ gates were monitored by building management to prevent public access. Access to the site is limited to tenants and guests.

3.2.7 Nuisance Control

On November 8, 2017, occupants of a second floor office at 295 Locust Avenue reported oil-type vapors. In response to the complaint, a Langan representative mobilized to the site to investigate the reported odors within the building. Odors were observed on the second floor adjacent to the location of the SSDS blowers. The area of the building associated with the odor was vacant at the time of the investigation. Observations and screening with field instrumentation (ppbRAE 3000 photoionization detector [PID]) identified potential odor emission associated with loose connections between the blowers and adjacent piping. Following investigation activity, the windows in the area were opened to ventilate the space with fresh air.

On November 9, 2017, a complaint number was assigned by the Occupational Safety and Health Administration (OSHA) (Complaint No. 1282825). Langan returned to the site with Brookside on November 9, 2017 to seal SSDS pipe connections. In addition, existing blower fittings were tightened as needed. No odors were observed following application of the sealant and field instrument screening found no indication of leakage. Langan submitted a letter report documenting the investigation and mitigation measures to OSHA on November 15, 2017.

On November 17, 2017, Langan conducted an indoor air sampling event under a closed-window condition to document post-repair indoor air contaminant concentrations in relation to the odor complaint. Indoor air analytical results were compared to OSHA indoor air requirements specified in Tables Z-1 and Z-2 Permissible Exposure Limits (PEL) per 29 CFR 1910.1000 and the National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL). Results were not detected above OSHA PELs or NIOSH RELs in the three indoor air and quality assurance/quality control (QA/QC) samples collected. On February 21, 2018, OSHA closed the complaint case and no additional sampling or reporting was required. Copies of the OSHA documentation and correspondence are provided in Attachment A.

3.2.8 Reporting

A Langan field engineer was on-site during inspection and sampling activities to monitor and document the condition of the soil vapor intrusion system in place on the site, and to respond to the OSHA complaint described above. Observations were recorded in field books and were communicated to NYSDEC and/or OSHA via email and phone.

3.3. Deviations from the Site Management Plan

No deviations from the SMP were identified during construction.

3.4. Post-SMP Operation Engineering Control Status

Engineering Control Status:

- *Composite Cover System – **Intact***
- *Sub-Slab Depressurization System - **Intact***

The composite cover system remained intact throughout the July 1, 2017 to July 30, 2018 reporting period. The SSDS was repaired on July 26, 2018 and was confirmed intact and operational. An EC/IC certification is included in Attachment B.

4.0 ANNUAL INSPECTIONS AND SAMPLING

In accordance with the SMP, Langan: 1) completed a site inspection; and 2) collected sub-slab soil vapor, indoor air, ambient air samples. Annual inspections and sampling are described in the following sections. The certification period covered by this report is July 1, 2017 through July 30, 2018.

4.1. Site Inspection

4.1.1 Annual Site Inspection

In accordance with the SMP monitoring requirements, Langan conducted an annual SMP site inspection on May 15 and 24, and July 26, 2018. The engineering controls (cover system and vapor mitigation) were documented to be in compliance with the SMP. Annual site inspection forms are provided in Attachment D.

4.1.2 Sub-Slab Depressurization System Inspection

On May 15, 2018 and May 24, 2018, Langan inspected the site building depressurization system. The system is comprised of five wells connected via 6-inch-diameter PVC pipes routed to five Radonaway® RP380 blowers (B-1 through B-5), located on the eastern mezzanine level of the building. The blowers are connected to an 8-inch-diameter effluent line that discharges to the roof. A summary of the site inspection events is provided below.

May 15, 2018 Inspection:

Langan collected flow rate and PID readings at the influent of each blower. Flow rates ranged from 1 to 621 cubic feet per minute (cft/min). The 1 cft/min reading was recorded at blower B-3 which was investigated and replaced in subsequent site visits. Volatile organic compound (VOC) readings ranged from 1.2 parts per million (ppm) VOCs (B-1) to 41.3 ppm VOCs (B-2).

Additionally, Langan collected vacuum and PID data from soil vapor monitoring points SVMF-2, SVMF-4 and SVMF-5, located on the first floor of the building. A vacuum was detected at all monitoring point locations. VOC readings ranged from 2.4 ppm VOCs (SVMF-04) to 8.1 ppm VOCs (SVMF-02).

May 24, 2018 Inspection:

Langan returned to the site on May 24, 2018 to complete the annual soil vapor sampling and to inspect the SSDS. While collecting velocity readings at the influent of each blower, it was confirmed that blower B-3 was not operational.

Langan collected vacuum and PID data from soil vapor monitoring point SVMF-4. A vacuum of -0.018 in wc was detected at the monitoring point location. VOC readings were recorded at 0.4 ppm VOCs.

July 26, 2018 Inspection:

On July 26, 2018, Langan returned to the site for SSDS repairs (replacement of blower B-3) and to conduct a follow-up SSDS inspection. Langan collected flow rate, vacuum and PID readings at the influent of each blower after blower B-3 was replaced and the system was reset. Flow rates ranged from 187 to 662 ft/min. Vacuum readings ranged from -2.4 to -3 in wc. VOC readings ranged from 4.8 (B-1) to 15,000 ppm VOCs (B-4).

Copies of the blower system inspection logs and soil vapor monitoring point readings are provided in Attachment E.

4.2. Indoor Air and Soil Vapor Sampling

A soil vapor investigation was conducted in general accordance with the 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York on May 15 and 24, 2018. The SMP requires annual soil vapor sample collection from four permanent soil vapor sample locations (SVMF-01, SVMF-2, SVMF-5, and SVMF-06) and collection of co-located indoor air samples. The permanent soil vapor sampling locations were previously installed by Tech Solutions in 2012.

During the site inspection, the former soil vapor sampling locations SVMF-01 and SVMF-06 were inaccessible. Per discussion with NYSDEC during the previous reporting period in 2017, it was determined that a soil vapor sample and co-located indoor air sample would be collected at monitoring point SVMF-4 in addition to the SVMF-2 and SVMF-5 sample locations. Soil vapor and co-located indoor air sample locations are shown on Figure 3.

The soil vapor monitoring points consist of a 3- to 5-foot-long, woven, stainless steel wire screen implant below the slab with polyethylene tubing extending to the surface. The polyethylene tubing was finished with a ball valve. A sand filter pack was installed around the screen implant and tubing to within 1 foot of the concrete slab. The remainder of the annulus was filled to grade with a hydrated bentonite seal to prevent ambient air infiltration. Vapor sample point construction logs are included in Attachment F.

4.2.1 Soil Vapor Sampling and Analysis

Prior to sampling, Langan completed a chemical inventory to identify substances in the building that may influence the results of indoor air quality (IAQ) and sub-slab soil vapor sampling. Chemical names and quantities were recorded in a chemical inventory form, as applicable. No hazardous chemicals were observed in areas of the building where soil vapor and indoor air samples were collected. One electric-powered forklift was observed in the eastern loading corridor of the site, in the vicinity of soil vapor sampling point SVMF-04.

A tracer gas test was performed using helium gas prior to sample collection. The helium gas tracer test is a QA/QC measure to confirm the integrity of the vapor point seals by evaluating if ambient air intrusion will impact the soil vapor sample (i.e., that no “short circuiting” has occurred). The helium was introduced into an upside-down five-gallon container over the surface of the sampling location being tested. The edges of the bucket were sealed to the surface with hydrated bentonite to maintain a high concentration of helium within the container. The sampling tubing from the vapor point was extended out of the probe hole through an air-tight fitting on the container and into a real-time helium monitoring instrument. With the sample train activated and drawing air at less than 0.2 liters per minute, the outlet air is monitored using a real-time helium monitoring instrument. A detection of helium would indicate that the seal was compromised and must be replaced.

On May 15, 2018, the helium tracer gas test at monitoring point location SVMF-04 failed. A sample was not submitted for analysis for this monitoring point location. On May 24, 2018, Langan returned to the site to re-sample SVMF-04. The seal at the surface of SVMF-04 was repaired and a second tracer gas test was performed using helium gas prior to sample collection. During this second attempt, the helium tracer test at monitoring point location SVMF-04 was successful and Langan was able to sample soil vapor point SVMF-04 for chemical analysis.

A MultiRAE gas meter with a flow rate less than 0.2 liters per minute was attached to the polyethylene tubing, and a total volume of at least three times that of the tubing and screen setup was purged. The purged soil vapor was also monitored for VOCs and the value was recorded. After purging was complete, a laboratory-supplied 2.7-liter Summa canister with a flow controller (with a laboratory-preset flow rate of 0.05 liters per minute) was attached to the polyethylene tubing. Sampling was started by fully opening the canister valve. The sample was collected over a period of approximately 2 hours. When approximately 2.7 liters of sample had been collected or the canister pressure dropped below 5 inches of mercury, the sample was stopped by closing the valve.

Soil vapor sampling locations are shown on Figure 3. The soil vapor sampling logs are included in Attachment G. The soil vapor mitigation system details provided by Tech Solutions are included in Attachment H.

4.2.2 Indoor and Ambient Air Sample Collection

On May 15, 2018, two indoor air samples (IA-2 and IA-5) were collected at breathing level adjacent to the two soil vapor sampling points SVMF-02 and SVMF-05. In addition, one ambient air sample was collected concurrent with soil vapor samples for QA/QC purposes. The 2.7-liter Summa® canisters were equipped with flow regulators calibrated for a two-hour

sampling period. On May 24, 2018, one indoor air sample (IA-4) was collected at breathing level adjacent to the SVMF-04 soil vapor sample location.

4.2.3 Sample Chemical Analysis

Three soil vapor samples, three co-located indoor air samples, and one ambient air sample were labeled, placed in shipping containers, and delivered to Alpha Analytical Inc. under standard chain-of-custody protocol for VOC analysis via United States Environmental Protection Agency (USEPA) Method TO-15.

4.2.4 Soil Vapor and Indoor Air Chemistry Results

A summary of detected soil vapor, co-located indoor air and ambient air analytical results are presented in Table 1 and sample locations are shown in Figure 3. Laboratory analytical reports are included as Attachment I.

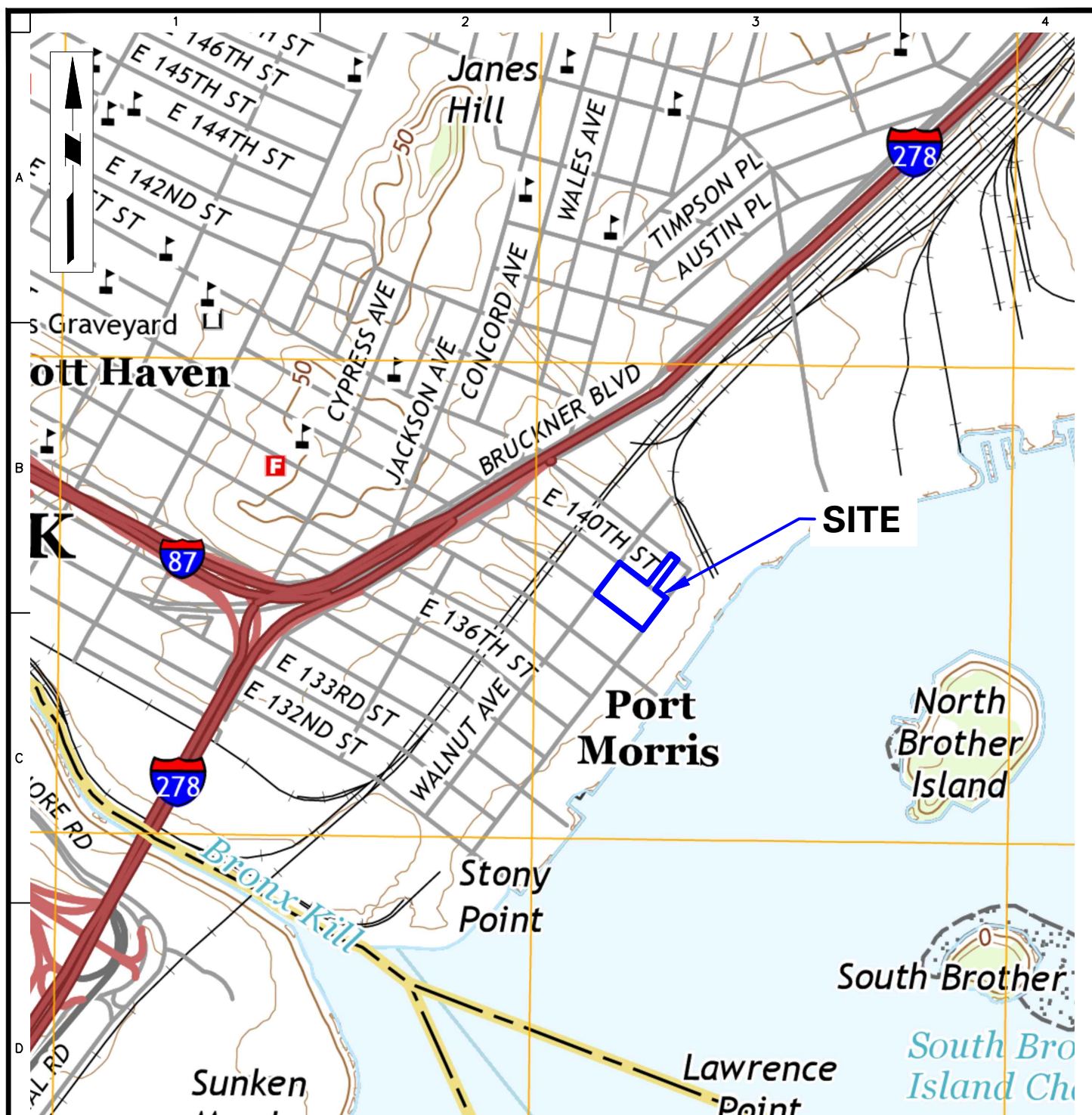
Indoor air analytical results were compared to the NYSDOH Air Guideline Values (AGV) specified in the NYSDOH guidance document. No indoor air concentrations were identified above their respective AGVs.

In addition, NYSDOH provides decision matrices for eight chlorinated VOCs (carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene [TCE], methylene chloride, tetrachloroethene [PCE], 1,1,1-trichloroethane, and vinyl chloride). The decision matrices recommend a range of activities (e.g., monitor, mitigate) based on the sub-slab and indoor air sample results. Four of the seven VOCs that can be evaluated using the NYSDOH decision matrices were detected in sub-slab soil vapor samples (PCE, TCE, vinyl chloride and cis-1,2-dichloroethene). The NYSDOH decision matrix recommendations ranged from “No Further Action” to “Mitigate”.

4.2.5 Soil Vapor and Indoor Air Conclusions

The site has an operating soil vapor intrusion (SVI) mitigation system. We recommend that the SVI mitigation system continue operation in its current configuration without modification.

FIGURES



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

NOTE: BASE MAP IS REFERENCED FROM USGS TOPOGRAPHIC MAP, CENTRAL PARK QUADRANGLE, 7.5-MINUTE SERIES, DATED AUGUST 2016.



SCALE IN FEET

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Langan CT, Inc.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

295 LOCUST AVENUE

BLOCK No. 2598, LOT Nos. 46,
74 & 86

BRONX

NEW YORK

Figure Title

**SITE LOCATION
MAP**

Project No.
170312501

Date
02/10/2017

Scale
1" = 1000'

Drawn By
NK

Checked By
ES

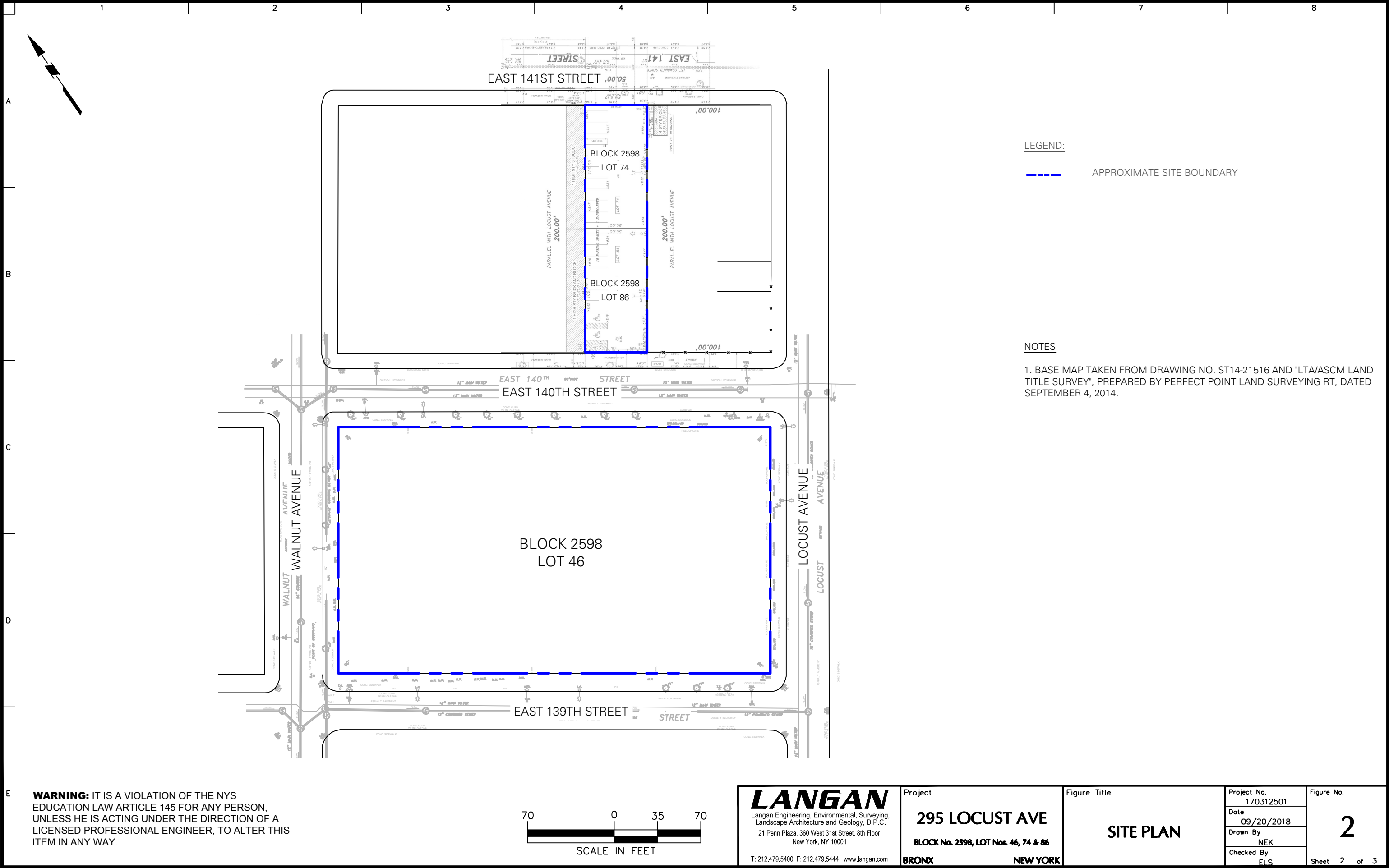
Submission Date

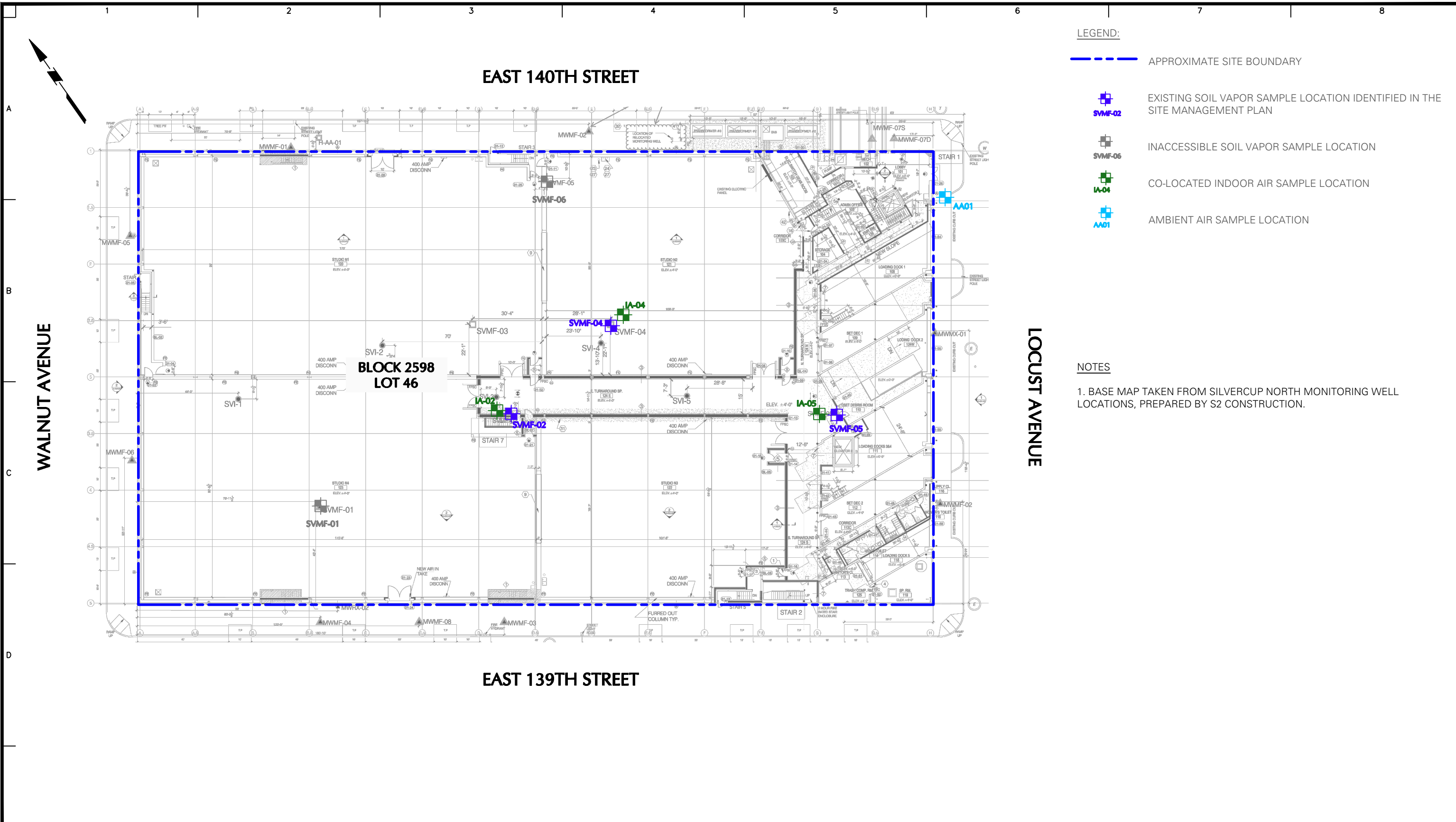
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Figure No.

1

Sheet 1 of 3





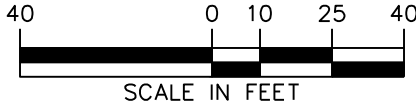
LEGEND:

- APPROXIMATE SITE BOUNDARY
- EXISTING SOIL VAPOR SAMPLE LOCATION IDENTIFIED IN THE SITE MANAGEMENT PLAN
- INACCESSIBLE SOIL VAPOR SAMPLE LOCATION
- CO-LOCATED INDOOR AIR SAMPLE LOCATION
- AMBIENT AIR SAMPLE LOCATION

NOTES

1. BASE MAP TAKEN FROM SILVERCUP NORTH MONITORING WELL LOCATIONS, PREPARED BY S2 CONSTRUCTION.

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Project
295 LOCUST AVE
BLOCK No. 2598, LOT Nos. 46, 74 & 86
BRONX NEW YORK

Figure Title
SOIL VAPOR SAMPLE LOCATION PLAN

Project No.
170312501
Date
09/20/2018
Drawn By
NEK
Checked By
ELS

Figure No.
3
Sheet 3 of 3

TABLES

Table 1
Soil Vapor Sample Results Summary
295 Locust Avenue
Bronx, New York
Langan Project No. 170312501

Sample ID Sampling Date Lab Sample ID Matrix	NYSDOH AGVs	AA01 5/15/2018 L1817756-05 Ambient Air	IA02 5/15/2018 L1817756-03 Indoor Air	SVMF02 5/15/2018 L1817756-04 Soil Vapor	IA05 5/15/2018 L1817756-01 Indoor Air	SVMF05 5/15/2018 L1817756-02 Soil Vapor	IA04 5/24/2018 L1819299-02 Indoor Air	SVMF04 5/24/2018 L1819299-01 Soil Vapor
Volatile Organic Compounds (VOCs) - TO-15 (µg/m³)								
1,2,4-Trimethylbenzene	~	1.97	1.77	3.28 U	2.65	3.28 U	3.65	1.94
1,3,5-Trimethylbenzene	~	0.983 U	0.983 U	3.28 U	0.983 U	3.28 U	1.17	0.983 U
2,2,4-Trimethylpentane	~	2.12	1.34	3.12 U	1.54	3.12 U	0.934 U	0.934
2-Butanone	~	1.92	4.93	5.4	4.84	4.93 U	2.88	4.01
4-Ethyltoluene	~	0.983 U	0.983 U	3.28 U	0.983 U	3.28 U	0.988	0.983 U
4-Methyl-2-pentanone	~	2.05 U	4.18	6.84 U	4.92	6.84 U	2.57	2.05 U
Acetone	~	18.4	53.2	104	62.7	100	52	85.8
Benzene	~	1.68	1.1	2.13 U	1.38	2.13 U	0.639 U	0.639 U
Carbon disulfide	~	0.623 U	0.623 U	4.08	0.623 U	2.08 U	0.623 U	0.623 U
Carbon tetrachloride	~	0.396	0.377	4.2 U	0.421	4.2 U	0.428	1.26 U
Chloroform	~	0.977 U	0.977 U	3.26 U	0.977 U	3.26 U	1.01	3.68
Chloromethane	~	1.33	1.18	1.38 U	1.28	1.38 U	1.1	0.485
cis-1,2-Dichloroethene	~	0.079 U	0.079 U	6.94	0.079 U	2.64 U	0.079 U	46.4
Cyclohexane	~	2.27	1.76	2.3 U	2.23	2.3 U	0.688 U	0.706
Dichlorodifluoromethane	~	2.2	2.03	3.3 U	2.03	3.3 U	2.17	2.13
Ethyl Acetate	~	1.8 U	4.07	6.02 U	5.19	6.02 U	4.25	6.13
Ethyl Alcohol	~	68.4	367	2110	430	2170	752	844
Ethylbenzene	~	1.75	2.45	2.9 U	3.18	2.9 U	8.47	3.1
Heptane	~	3.39	3.03	2.73 U	3.88	2.73 U	2.2	2.73
iso-Propyl Alcohol	~	4.33	25.3	45	30.2	44.5	30.2	43.5
Methylene chloride	~	1.92	5.45	5.8 U	3.03	5.8 U	1.74 U	1.74 U
n-Hexane	~	3.7	2.65	2.43	3.22	2.35 U	1.08	1.09
o-Xylene	~	1.78	2.51	2.9 U	3.24	2.9 U	9.47	3.17
p/m-Xylene	~	4.6	7.64	5.78 U	9.69	8.38	34.7	12.5
Styrene	~	0.852 U	0.852 U	2.84 U	0.945	2.84 U	0.852 U	0.852 U
tert-Butyl Alcohol	~	1.52 U	3.27	12.9	3.85	12.6	2.07	3.43
Tetrachloroethene	30	0.78	1.13	53	0.848	69.2	0.461	38.9
Toluene	~	9.53	11.7	9.61	15	8.93	10.8	9.87
trans-1,2-Dichloroethene	~	0.793 U	0.793 U	17.2	0.793 U	2.64 U	0.793 U	10.9
Trichloroethene	2	0.107 U	0.575	3.6	1.43	4.55	0.107 U	7.85
Trichlorofluoromethane	~	1.17	1.12	31.7	1.19	30.4	1.24	4.78
Vinyl chloride	~	0.051 U	0.051 U	1.71 U	0.051 U	1.71 U	0.051 U	0.746
Total VOCs		115.236	457.487	2301.86	536.184	2348.56	872.907	1052.981

- Notes And Qualifiers
- Soil Vapor sample analytical results are compared against the background ambient air sample results and the the New York State Department of Health (NYSDOH) Air Guidance Values (AGVs).
 - Soil vapor sample concentrations detected above background ambient air concentrations are shaded and bolded.
 - Soil vapor sample concentrations detected above NYSDOH AGV concentrations are shaded and bolded red.
 - Non-detect compounds with reporting limits above the Ambient Air reporting limit are italicized.
 - Total VOCs is a sum of detected VOCs with the exception of acetonone, which is a common laboratory contaminant.
 - µg/m3 = microgram per cubic meter
 - U =Analyte was not detected at a concentration greater than or equal to the Reporting Limit (RL); the value shown in the table is the RL.

ATTACHMENT A
PREVIOUS REPORTS
(Separate Attachment)

ATTACHMENT B

**PERIODIC REVIEW REPORT EC/IC
CERTIFICATION FORM**



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. C203053

Site Details

Box 1

Site Name 295 Locust Avenue

Site Address: Locust Ave, E. 139th, E. 140th and E. 141st Sts. **Zip Code:** 10454
City/Town: Bronx
County: Bronx
Site Acreage: 1.8

Reporting Period: ~~July 30, 2016~~ to July 30, 2018

Reporting Period: July 1, 2017 to July 30, 2018

- | | YES | NO |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Box 2

- | | YES | NO |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

☒☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C203053**Box 3****Description of Institutional Controls**

(Refer to next page for description)

Parcel
2-2598-46

Owner
295 Locust Associates LLC

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Controls at the site include:

1. Maintenance of a soil cover system consisting of a minimum of 6 inches of concrete or asphalt in order to prevent human exposure to contaminated soil/fill remaining at the Site;
2. End use restrictions at the Site limited to commercial uses, unless there is an expressed written waiver from an appropriate New York State Department;
3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;
4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;
5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and
6. Periodic certification of the institutional and engineering controls listed above.

2-2598-74

295 Locust Associates LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Controls at the site include:

1. Maintenance of a soil cover system consisting of a minimum of 6 inches of concrete or asphalt in order to prevent human exposure to contaminated soil/fill remaining at the Site;
2. End use restrictions at the Site limited to commercial uses, unless there is an expressed written waiver from an appropriate New York State Department;
3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;
4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;
5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and
6. Periodic certification of the institutional and engineering controls listed above.

2-2598-86

295 Locust Associates LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Controls at the site include:

1. Maintenance of a soil cover system consisting of a minimum of 6 inches of concrete or asphalt in order to prevent human exposure to contaminated soil/fill remaining at the Site;
2. End use restrictions at the Site limited to commercial uses, unless there is an expressed written waiver from an appropriate New York State Department;
3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to contamination remaining at the Site;
4. Groundwater use restrictions at the Site, unless it is treated prior to use, and written consent is granted by the NYSDEC/NYSDOH;
5. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting; and
6. Periodic certification of the institutional and engineering controls listed above.

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
2-2598-46	Vapor Mitigation Cover System
2-2598-74	Vapor Mitigation Cover System
2-2598-86	Cover System

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C203053

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I GARY KESNE at 295 Locust Ave. Beacon NY 10454
print name print business address

am certifying as Owner Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Gary Kesne
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

10/1/18
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jason Hayes at 21 Penn Plaza, 8th Fl, New York, NY
print name print business address

am certifying as a Professional Engineer for the owner
(Owner or Remedial Party)


Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

Date

9/27/2018


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NYC Department of Buildings
Application Details

The below information does not include work types submitted in DOB NOW; use the [DOB NOW Public Portal](#) to access DOB NOW records.

Premises: 275 LOCUST AVENUE BRONX
BIN: [2004039](#) Block: 2598 Lot: 46

Job No: 220617679
Document: 01 OF 1

Job Type: A3 - ALTERATION TYPE 3

Document Overview	Items Required	Virtual Job Folder	All Permits
Fees Paid	Forms Received		All Comments
Crane Information	Plan Examination		
After Hours Variance Permits			

DOB NOW: *Inspections*

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

Last Action: PERMIT ISSUED - ENTIRE JOB/WORK 01/25/2018 (R)
Application approved on: 01/11/2018

Pre-Filed: 09/25/2017 **Building Type:** Other
Date Filed: 09/25/2017
Fee Structure: STANDARD
Review is requested under Building Code: 2014

Estimated Total Cost: \$7,794.00
Electronically Filed: Yes

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 295 **Street Name:** LOCUST AVENUE
Borough: Bronx **Block:** 2598 **Lot:** 46 **BIN:** [2004039](#) **CB No:** 201
Work on Floor(s): 001 **Apt/Condo No(s):** **Zip Code:** 10454

2 Applicant of Record Information

Name: EDWARD E SHALAT
Business Name: SHALAT ARCHITECTS P.C.
Business Address: 37-18 NORTHERN BLVD SUITE 303 LIC NY 11101
E-Mail: INFO@SHALATARCHITECTS.COM

Business Phone: 212-691-7522

Business Fax:

Mobile Telephone:

License Number: 021332

Applicant Type: ☐ P.E. ☒ R.A. ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant

Not Provided

Previous Applicant of Record

Not Applicable

3 Filing Representative

Name: GILBERT/G NIEVES/FERNANDEZ**Business Name:** ALL IN PERMIT CONSULTANTS INC**Business Phone:** 631-320-3880**Business Address:** 71 HANRAHAN AVENUE FARMINGVILLE NY
11738**Business Fax:** 631-320-3881**E-Mail:** GNIEVES@ALLINPERMITS.COM**Mobile Telephone:****Registration Number:** 5759**4 Filing Status**[Click Here to View](#)**5 Job Types**

- ☐ Alteration Type 1 or Alteration Type 1 required to meet New Building requirements (28-101.4.5)
- ☐ Alteration Type 1, OT "No Work" ☐ New Building
- ☐ Alteration Type 2 ☐ Full Demolition
- ☒ Alteration Type 3 ☐ Subdivision: Improved
- ☐ Sign ☐ Subdivision: Condo
- Directive 14 acceptance requested? ☒ Yes ☐ No

6 Work Types

- ☐ BL - Boiler ☐ FA - Fire Alarm ☐ FB - Fuel Burning ☐ FS - Fuel Storage
- ☐ FP - Fire Suppression ☐ MH - Mechanical ☐ PL - Plumbing ☐ SD - Standpipe
- ☐ SP - Sprinkler ☐ EQ - Construction Equipment ☐ CC - Curb Cut
- ☒ OT - AWNING

7 Plans/Construction Documents Submitted

Plans Page Count: 2

8 Additional Information

Not Applicable

9 Additional Considerations, Limitations or Restrictions

Yes No

- ☐
- ☒
- Alt. required to meet New Building req's (28-101.4.5)

Yes No

- ☐ ☒ Alteration is a major change to exits
- ☐ ☒ Change in number of dwelling units
- ☐ ☒ Change in Occupancy / Use
- ☐ ☒ Change is inconsistent with current certificate of occupancy
- ☐ ☒ Change in number of stories

- ☐ ☒ Facade Alteration
- ☐ ☒ Adult Establishment
- ☐ ☒ Compensated Development (Inclusionary Housing)
- ☐ ☒ Low Income Housing (Inclusionary Housing)
- ☐ ☒ Single Room Occupancy (SRO) Multiple Dwelling
- ☐ ☒ Filing includes Lot Merger / Reapportionment

- ☐ ☒ Infill Zoning
- ☐ ☒ Loft Board
- ☐ ☒ Quality Housing
- ☐ ☒ Site Safety Job / Project
- ☐ ☒ Included in LMCCC

Work Includes:

- ☐ ☒ Prefab wood I-joists
- ☐ ☒ Structural cold-formed steel
- ☐ ☒ Open-web steel joists

- ☐ ☒ Landmark
- ☐ ☒ Environmental Restrictions (Little E or RD)
- ☐ ☒ Unmapped/CCO Street
- ☐ ☒ Legalization
- ☐ ☒ Other, Specify:
- ☐ ☒ Filed to Comply with Local Law
- ☐ ☒ Restrictive Declaration / Easement
- ☐ ☒ Zoning Exhibit Record (I,II,III,etc)
- ☐ ☒ Filed to Address Violation(s)

- ☐ ☒ Work includes lighting fixture and/or controls, installation or replacement. [ECC §404 and §505]
- ☐ ☒ Work includes modular construction under New York State jurisdiction
- ☐ ☒ Work includes modular construction under New York City jurisdiction
- ☐ ☒ Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
- ☐ ☒ Work includes permanent removal of standpipe, sprinkler or fire suppression related systems
- ☐ ☒ Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building
- ☐ ☒ Structural Stability affected by proposed work

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance New York City Energy Conservation Code (Applicant Statement)☒ To the best of my knowledge, belief and professional judgment, this application is in compliance with the NYCECC.Code Compliance Path: ☒ NYCECC ☐ ASHAREEnergy Analysis: ☒ Tabular ☐ REScheck ☐ COMcheck ☐ Energy Modeling (EN1)**11 Job Description**

ERECT ACCESSORY BUSINESS AWNING AS PER PLANS FILED HEREWITH. NO CHANGE IN USE, EGRESS OR OCCUPANCY.

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): M3-1 - HEAVY MANUFACTURING DISTRICT (LOW PERFORMANCE)

Overlay(s):

Special District(s):

Map No.: 6d

Street legal width (ft.):

Street status: ☐ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

13 Building Characteristics**Existing**

Occupancy Classification: B-1 - STORAGE (MODERATE HAZARD)

Construction Classification: I-C: 2 HOUR PROTECTED

Multiple Dwelling Classification:

Building Height (ft.): 60

Building Stories: 1

Dwelling Units:

2014/2008 Code Designations?☐ Yes ☒ No☐ Yes ☒ NoMixed use building? ☐ Yes ☒ No**14 Fill**☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards**15 Construction Equipment**

Not Applicable

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

Not Applicable

19 Open Spaces**20 Site Characteristics**

Yes No

☐ ☒ Tidal Wetlands☐ ☒ Coastal Erosion Hazard Area

Yes No

☐ ☒ Freshwater Wetlands☐ ☒ Urban Renewal

☒ ☐ Fire District☒ ☐ Flood Hazard Area**Flood Hazard Area Information:**

Yes No

☐ ☒ Substantial improvement?☐ ☒ Substantially damaged?☐ ☒ Floodshields part of proposed work?**21 Demolition Details**

Not Applicable

22 Asbestos Abatement Compliance

☒ The scope of work is exempt from the asbestos requirement as defined in the regulations promulgated by the NYC DEP (15 RCNY 1-23(b)) or is an alteration to a building constructed pursuant to plans submitted for approval on or after April 1, 1987, in accordance with §28-106.1.

23 Signs

Not Applicable

24 Comments**25 Applicant's Statements and Signatures** (See paper form or check [Forms Received](#))

Yes No

☐ ☐ For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?

☒ ☐ Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Name: DAVID SJAUW

Relationship to Owner: PROJECT EXEC

Business Name: BPA NORTH LLC

Business Phone: 718-902-2155

Business Address: 42-22 22ND STREET RM 202 LIC NY 11101

Business Fax:

E-Mail: DSJAUW@S2CONSTRUCTION.NYC

Owner Type: CORPORATION

Non Profit: ☐ Yes ☒ No

Yes No

☐ ☒ Owner's Certification Regarding Occupied Housing (Remain Occupied)☐ ☒ Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)☐ ☐ Owner DHCR Notification☐ ☐ Owner's Certification for Adult Establishment☒ ☐ Owner's Certification for Directive 14 (if applicable)**Metes and Bounds**To view metes and bounds, see the Plot Diagram (form PD-1). A scanned image may be available [here](#).

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.


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NYC Department of Buildings
Application Details

The below information does not include work types submitted in DOB NOW; use the [DOB NOW Public Portal](#) to access DOB NOW records.

JUMP TO: Doc 18 ▼ Go

Premises: 275 LOCUST AVENUE BRONX
BIN: [2004039](#) Block: 2598 Lot: 46

Job No: 220460846

Document: 18 OF 21

Job Type: A1 - ALTERATION TYPE 1

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination			C/O Preview	
After Hours Variance Permits					

DOB NOW: [Inspections](#)

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

POST APPROVAL AMENDMENT FOR DOC 01

Last Action: PLAN EXAM - APPROVED 10/25/2017 (P)

Application approved on: 08/27/2015

Pre-Filed: 10/25/2017 Building Type: Other

Estimated Total Cost: \$0.00

Date Filed: 10/25/2017

Electronically Filed: No

Fee Structure: STANDARD

Review is requested under Building Code: 1968

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 275 Street Name: LOCUST AVE

Borough: Bronx

Block: 2598

Lot: 46

BIN: [2004039](#)

CB No: 201

Work on Floor(s): 001,1MZ,002,003,004,ROF

Apt/Condo No(s):

Zip Code: 10454

2 Applicant of Record Information

Name: EDWARD E SHALAT

Business Name: SHALAT ARCHITECTS P.C.

Business Phone: 212-691-7522

Business Address: 38-17 NORTHERN BLVD LIC NY 11101

Business Fax:

E-Mail: ED@SHALATARCHITECTS.COM

Mobile Telephone:

License Number: 021332

Applicant Type: ☐ P.E. ☒ R.A. ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant

Not Applicable

Previous Applicant of Record

Not Applicable

3 Filing Representative**Name:** ERI/STU/STANLEY BERGER/ONEIL**Business Name:** GEORGE BERGER AND ASSOCIATES**Business Address:** 86 YONKERS AVE TUCKAHOE NY 10707**E-Mail:** JEANNE@GBERGERLLC.COM**Business Phone:** 888-376-1678**Business Fax:** 914-337-3607**Mobile Telephone:** 917-805-6677**Registration Number:** 002797**4 Filing Status**[Click Here to View](#)**5 Job Types**☒ **Alteration Type 1**☐ **Alteration Type 1, OT "No Work"**☐ **Alteration Type 2**☐ **Alteration Type 3**☐ **Sign**☐ **New Building**☐ **Full Demolition**☐ **Subdivision: Improved**☐ **Subdivision: Condo****Directive 14 acceptance requested?** ☐ Yes ☒ No**6 Work Types**☐ **BL - Boiler**☐ **FA - Fire Alarm**☐ **FB - Fuel Burning**☐ **FS - Fuel Storage**☐ **FP - Fire Suppression**☐ **MH - Mechanical**☐ **PL - Plumbing**☐ **SD - Standpipe**☐ **SP - Sprinkler**☐ **EQ - Construction Equipment**☐ **CC - Curb Cut**☒ **OT - Other****7 Plans/Construction Documents Submitted****Plans Page Count:** 00**8 Additional Information****Enlargement proposed?**☐ No ☐ Yes☐ Horizontal ☐ Vertical**9 Additional Considerations, Limitations or Restrictions****Yes No**☐ ☐ **Alt. required to meet New Building req's (28-101.4.5)****Yes No**☐ ☐ **Alteration is a major change to exits**☐ ☐ **Change in number of dwelling units**☐ ☐ **Change in Occupancy / Use**☐ ☐ **Change is inconsistent with current certificate of occupancy**☐ ☐ **Change in number of stories**☐ ☐ **Facade Alteration**☐ ☐ **Adult Establishment**☐ ☐ **Compensated Development (Inclusionary Housing)**☐ ☐ **Low Income Housing (Inclusionary Housing)**☐ ☐ **Single Room Occupancy (SRO) Multiple Dwelling**☐ ☐ **Filing includes Lot Merger / Reapportionment**☐ ☐ **Infill Zoning**☐ ☐ **Loft Board**☐ ☐ **Quality Housing**☐ ☐ **Site Safety Job / Project**☐ ☐ **Included in LMCCC****Work Includes:**☐ ☐ **Prefab wood I-joists**☐ ☐ **Structural cold-formed steel**☐ ☐ **Open-web steel joists**☐ ☐ **Landmark**☐ ☐ **Environmental Restrictions (Little E or RD)**☐ ☐ **Unmapped/CCO Street**☐ ☐ **Legalization**☐ ☐ **Other, Specify:**

- ☐ ☐ Filed to Comply with Local Law
☐ ☐ Restrictive Declaration / Easement
☐ ☐ Zoning Exhibit Record (I,II,III,etc)
☐ ☐ Filed to Address Violation(s)

- ☐ ☐ Work includes lighting fixture and/or controls, installation or replacement. [ECC §404 and §505]
☐ ☐ Work includes modular construction under New York State jurisdiction
☐ ☐ Work includes modular construction under New York City jurisdiction
☐ ☐ Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
☐ ☐ Work includes permanent removal of standpipe, sprinkler or fire suppression related systems
☐ ☐ Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building
☐ ☐ Structural Stability affected by proposed work

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance New York City Energy Conservation Code (Applicant Statement)

Not Provided

11 Job Description

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): NONE

Overlay(s):

Special District(s):

Map No.:

Street legal width (ft.):

Street status: ☐ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use

Zoning Area (sq.ft.)

District

FAR

Proposed Totals:

--

Existing Total:

--

--

Proposed Lot Details:

Lot Type: ☐ Corner ☐ Interior ☐ Through

Lot Coverage (%):

Lot Area (sq.ft.):

Lot Width (ft.):

Proposed Yard Details:

☐ No Yards Or

Front Yard (ft.): Rear Yard (ft.): Rear Yard Equivalent (ft.):

Side Yard 1 (ft.): Side Yard 2 (ft.):

Proposed Other Details:

Perimeter Wall Height (ft.):

Enclosed Parking? ☐ Yes ☐ No No. of parking spaces:**13 Building Characteristics**

Occupancy Classification: Existing:

Proposed:

Construction Classification: Existing:

Proposed:

Multiple Dwelling Classification: Existing:

Proposed:

Building Height (ft.): Existing:

Proposed:

Building Stories: Existing:

Proposed:

Dwelling Units: Existing:

Proposed:

2014/2008 Code Designations?

☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ NoBuilding was originally erected pursuant to which Building Code: ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968The earliest Code with which this building or any part of it is required to ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968

comply:

Mixed use building? ☐ Yes ☐ No**14 Fill**
☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards
15 Construction Equipment

Not Applicable

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing		Proposed			Existing		Proposed	
	Yes	No	Yes	No		Yes	No	Yes	No
Fire Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Suppression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standpipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19 Open Spaces

	Existing	Proposed		Existing	Proposed
Plaza Area (sq.ft.):			Arcade Area (sq.ft.):		
Parking Area (sq.ft.):	0	0	Parking Spaces (no.):	00	00
Loading Berths (sq.ft.):			Loading Berths (no.):		

20 Site Characteristics

Not Provided

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance**23 Signs**

Not Applicable

24 Comments**Comments for PAA Document 18 Modifying Document 01****Description of Amendment**

HEREWITH SUBMITTING REVISED PW-1 SECTION 19 NOW INDICATING NO PARKING AT OSP. ALL PARKING PROVIDED OFF SITE AT 901 EAST 140 STREET AS INDICATED ON CO NOTES.

25 Applicant's Statements and Signatures (See paper form or check [Forms Received](#))

Yes No

- ☐ ☐ For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?
- ☐ ☐ Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Not Applicable

Yes No

- ☐ ☐ Owner's Certification Regarding Occupied Housing (Remain Occupied)
- ☐ ☐ Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
- ☐ ☐ Owner DHCR Notification
- ☐ ☐ Owner's Certification for Adult Establishment
- ☐ ☐ Owner's Certification for Directive 14 (if applicable)

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.


[CLICK HERE TO SIGN UP FOR BUILDINGS NEWS](#)

NYC Department of Buildings
Application Details

The below information does not include work types submitted in DOB NOW; use the [DOB NOW Public Portal](#) to access DOB NOW records.

JUMP TO:

Premises: 275 LOCUST AVENUE BRONX
BIN: [2004039](#) Block: 2598 Lot: 46

Job No: 220460846

Document: 19 OF 21

Job Type: A1 - ALTERATION TYPE 1

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination			C/O Preview	
After Hours Variance Permits					

DOB NOW: [Inspections](#)

This job is not subject to the Department's Development Challenge Process. For any issues, please contact the relevant borough office.

POST APPROVAL AMENDMENT FOR DOC 01

Last Action: PLAN EXAM - APPROVED 11/14/2017 (P)

Application approved on: 08/27/2015

Pre-Filed: 11/14/2017 Building Type: Other

Estimated Total Cost: \$0.00

Date Filed: 11/14/2017

Electronically Filed: No

Fee Structure: STANDARD

Review is requested under Building Code: 1968

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 275 Street Name: LOCUST AVE

Borough: Bronx

Block: 2598

Lot: 46

BIN: [2004039](#)

CB No: 201

Work on Floor(s): 001,1MZ,002,003,004,ROF

Apt/Condo No(s):

Zip Code: 10454

2 Applicant of Record Information

Name: EDWARD E SHALAT

Business Name: SHALAT ARCHITECTS P.C.

Business Phone: 212-691-7522

Business Address: 38-17 NORTHERN BLVD LIC NY 11101

Business Fax:

E-Mail: ED@SHALATARCHITECTS.COM

Mobile Telephone:

License Number: 021332

Applicant Type: ☐ P.E. ☒ R.A. ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant

Not Applicable

Previous Applicant of Record

Not Applicable

3 Filing Representative**Name:** ERI/STU/STANLEY BERGER/ONEIL**Business Name:** GEORGE BERGER AND ASSOCIATES**Business Address:** 86 YONKERS AVE TUCKAHOE NY 10707**E-Mail:** JEANNE@GBERGERLLC.COM**Business Phone:** 888-376-1678**Business Fax:** 914-337-3607**Mobile Telephone:** 917-805-6677**Registration Number:** 002797**4 Filing Status**[Click Here to View](#)**5 Job Types**☒ **Alteration Type 1**☐ **Alteration Type 1, OT "No Work"**☐ **Alteration Type 2**☐ **Alteration Type 3**☐ **Sign**☐ **New Building**☐ **Full Demolition**☐ **Subdivision: Improved**☐ **Subdivision: Condo****Directive 14 acceptance requested?** ☐ Yes ☒ No**6 Work Types**☐ **BL - Boiler**☐ **FA - Fire Alarm**☐ **FB - Fuel Burning**☐ **FS - Fuel Storage**☐ **FP - Fire Suppression**☐ **MH - Mechanical**☐ **PL - Plumbing**☐ **SD - Standpipe**☐ **SP - Sprinkler**☐ **EQ - Construction Equipment**☐ **CC - Curb Cut**☒ **OT - Other****7 Plans/Construction Documents Submitted****Plans Page Count:** 1**8 Additional Information****Enlargement proposed?**☐ No ☐ Yes☐ Horizontal ☐ Vertical**9 Additional Considerations, Limitations or Restrictions****Yes No**☐ ☐ **Alt. required to meet New Building req's (28-101.4.5)****Yes No**☐ ☐ **Alteration is a major change to exits**☐ ☐ **Change in number of dwelling units**☐ ☐ **Change in Occupancy / Use**☐ ☐ **Change is inconsistent with current certificate of occupancy**☐ ☐ **Change in number of stories**☐ ☐ **Facade Alteration**☐ ☐ **Adult Establishment**☐ ☐ **Compensated Development (Inclusionary Housing)**☐ ☐ **Low Income Housing (Inclusionary Housing)**☐ ☐ **Single Room Occupancy (SRO) Multiple Dwelling**☐ ☐ **Filing includes Lot Merger / Reapportionment**☐ ☐ **Infill Zoning**☐ ☐ **Loft Board**☐ ☐ **Quality Housing**☐ ☐ **Site Safety Job / Project**☐ ☐ **Included in LMCCC****Work Includes:**☐ ☐ **Prefab wood I-joists**☐ ☐ **Structural cold-formed steel**☐ ☐ **Open-web steel joists**☐ ☐ **Landmark**☐ ☐ **Environmental Restrictions (Little E or RD)**☐ ☐ **Unmapped/CCO Street**☐ ☐ **Legalization**☐ ☐ **Other, Specify:**

- ☐ ☐ Filed to Comply with Local Law
☐ ☐ Restrictive Declaration / Easement
☐ ☐ Zoning Exhibit Record (I,II,III,etc)
☐ ☐ Filed to Address Violation(s)

- ☐ ☐ Work includes lighting fixture and/or controls, installation or replacement. [ECC §404 and §505]
☐ ☐ Work includes modular construction under New York State jurisdiction
☐ ☐ Work includes modular construction under New York City jurisdiction
☐ ☐ Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
☐ ☐ Work includes permanent removal of standpipe, sprinkler or fire suppression related systems
☐ ☐ Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building
☐ ☐ Structural Stability affected by proposed work

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance New York City Energy Conservation Code (Applicant Statement)

Not Provided

11 Job Description

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): NONE

Overlay(s):

Special District(s):

Map No.:

Street legal width (ft.):

Street status: ☐ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use

Zoning Area (sq.ft.)

District

FAR

Proposed Totals:

--

Existing Total:

--

--

Proposed Lot Details:

Lot Type: ☐ Corner ☐ Interior ☐ Through

Lot Coverage (%):

Lot Area (sq.ft.):

Lot Width (ft.):

Proposed Yard Details:

☐ No Yards Or

Front Yard (ft.): Rear Yard (ft.): Rear Yard Equivalent (ft.):

Side Yard 1 (ft.): Side Yard 2 (ft.):

Proposed Other Details:

Perimeter Wall Height (ft.):

Enclosed Parking? ☐ Yes ☐ No No. of parking spaces:**13 Building Characteristics**

Occupancy Classification: Existing:

Proposed:

Construction Classification: Existing:

Proposed:

Multiple Dwelling Classification: Existing:

Proposed:

Building Height (ft.): Existing:

Proposed:

Building Stories: Existing:

Proposed:

Dwelling Units: Existing:

Proposed:

2014/2008 Code Designations?

☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ NoBuilding was originally erected pursuant to which Building Code: ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968The earliest Code with which this building or any part of it is required to ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968

comply:

Mixed use building? ☐ Yes ☐ No**14 Fill**
☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards
15 Construction Equipment

Not Applicable

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing		Proposed			Existing		Proposed	
	Yes	No	Yes	No		Yes	No	Yes	No
Fire Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Suppression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standpipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19 Open Spaces

Not Provided

20 Site Characteristics

Not Provided

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance**23 Signs**

Not Applicable

24 Comments**Comments for PAA Document 19 Modifying Document 01****Description of Amendment**

HEREWITH SUBMITTING REVISED ZONING PLAN SHOWING MINOR CHANGES.

REVISED SCH A FORM NOW OMITTING NOTE ON PAGE.

25 Applicant's Statements and Signatures (See paper form or check [Forms Received](#))

Yes No

- ☐ ☐ For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?
- ☐ ☐ Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Not Applicable

Yes No

- ☐ ☐ Owner's Certification Regarding Occupied Housing (Remain Occupied)
- ☐ ☐ Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
- ☐ ☐ Owner DHCR Notification
- ☐ ☐ Owner's Certification for Adult Establishment
- ☐ ☐ Owner's Certification for Directive 14 (if applicable)

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NYC Department of Buildings
Application Details

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JUMP TO:

Premises: 275 LOCUST AVENUE BRONX
BIN: [2004039](#) Block: 2598 Lot: 46

Job No: 220460846

Document: 20 OF 21

Job Type: A1 - ALTERATION TYPE 1

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination			C/O Preview	
After Hours Variance Permits					

DOB NOW: [Inspections](#)

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POST APPROVAL AMENDMENT FOR DOC 01

Last Action: PLAN EXAM - APPROVED 01/25/2018 (P)

Application approved on: 08/27/2015

Pre-Filed: 01/19/2018 Building Type: Other

Estimated Total Cost: \$0.00

Date Filed: 01/19/2018

Electronically Filed: No

Fee Structure: STANDARD

Review is requested under Building Code: 1968

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 275 Street Name: LOCUST AVE

Borough: Bronx

Block: 2598

Lot: 46

BIN: [2004039](#)

CB No: 201

Work on Floor(s): 001,1MZ,002,003,004,ROF

Apt/Condo No(s):

Zip Code: 10454

2 Applicant of Record Information

Name: EDWARD E SHALAT

Business Name: SHALAT ARCHITECTS P.C.

Business Phone: 212-691-7522

Business Address: 38-17 NORTHERN BLVD LIC NY 11101

Business Fax:

E-Mail: ED@SHALATARCHITECTS.COM

Mobile Telephone:

License Number: 021332

Applicant Type: ☐ P.E. ☒ R.A. ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant

Not Applicable

Previous Applicant of Record

Not Applicable

3 Filing Representative**Name:** ERI/STU/STANLEY BERGER/ONEIL**Business Name:** GEORGE BERGER AND ASSOCIATES**Business Address:** 86 YONKERS AVE TUCKAHOE NY 10707**E-Mail:** JEANNE@GBERGERLLC.COM**Business Phone:** 888-376-1678**Business Fax:** 914-337-3607**Mobile Telephone:** 917-805-6677**Registration Number:** 002797**4 Filing Status**[Click Here to View](#)**5 Job Types**☒ **Alteration Type 1**☐ **Alteration Type 1, OT "No Work"**☐ **Alteration Type 2**☐ **Alteration Type 3**☐ **Sign**☐ **New Building**☐ **Full Demolition**☐ **Subdivision: Improved**☐ **Subdivision: Condo**Directive 14 acceptance requested? ☐ Yes ☒ No**6 Work Types**☐ **BL - Boiler**☐ **FA - Fire Alarm**☐ **FB - Fuel Burning**☐ **FS - Fuel Storage**☐ **FP - Fire Suppression**☐ **MH - Mechanical**☐ **PL - Plumbing**☐ **SD - Standpipe**☐ **SP - Sprinkler**☐ **EQ - Construction Equipment**☐ **CC - Curb Cut**☒ **OT - Other****7 Plans/Construction Documents Submitted**

Plans Page Count: 0

8 Additional Information

Enlargement proposed?

☐ No ☐ Yes☐ Horizontal ☐ Vertical**9 Additional Considerations, Limitations or Restrictions**

Yes No

☐ ☒ **Alt. required to meet New Building req's (28-101.4.5)**

Yes No

☐ ☐ **Alteration is a major change to exits**☐ ☐ **Change in number of dwelling units**☐ ☐ **Change in Occupancy / Use**☐ ☐ **Change is inconsistent with current certificate of occupancy**☐ ☐ **Change in number of stories**☐ ☐ **Facade Alteration**☐ ☐ **Adult Establishment**☐ ☐ **Compensated Development (Inclusionary Housing)**☐ ☐ **Low Income Housing (Inclusionary Housing)**☐ ☐ **Single Room Occupancy (SRO) Multiple Dwelling**☐ ☐ **Filing includes Lot Merger / Reapportionment**☐ ☐ **Infill Zoning**☐ ☐ **Loft Board**☐ ☐ **Quality Housing**☐ ☐ **Site Safety Job / Project**☐ ☐ **Included in LMCCC****Work Includes:**☐ ☐ **Prefab wood I-joists**☐ ☐ **Structural cold-formed steel**☐ ☐ **Open-web steel joists**☐ ☐ **Landmark**☐ ☐ **Environmental Restrictions (Little E or RD)**☐ ☐ **Unmapped/CCO Street**☐ ☐ **Legalization**☐ ☐ **Other, Specify:**

- ☐ ☐ Filed to Comply with Local Law
☐ ☐ Restrictive Declaration / Easement
☐ ☐ Zoning Exhibit Record (I,II,III,etc)
☐ ☐ Filed to Address Violation(s)

- ☐ ☐ Work includes lighting fixture and/or controls, installation or replacement. [ECC §404 and §505]
☐ ☐ Work includes modular construction under New York State jurisdiction
☐ ☐ Work includes modular construction under New York City jurisdiction
☐ ☐ Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
☐ ☐ Work includes permanent removal of standpipe, sprinkler or fire suppression related systems
☐ ☐ Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building
☐ ☐ Structural Stability affected by proposed work

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance New York City Energy Conservation Code (Applicant Statement)

Not Provided

11 Job Description

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): NONE

Overlay(s):

Special District(s):

Map No.:

Street legal width (ft.):

Street status: ☐ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use

Zoning Area (sq.ft.)

District

FAR

Proposed Totals:

--

Existing Total:

--

--

Proposed Lot Details:

Lot Type: ☐ Corner ☐ Interior ☐ Through

Lot Coverage (%):

Lot Area (sq.ft.):

Lot Width (ft.):

Proposed Yard Details:

☐ No Yards Or

Front Yard (ft.):

Rear Yard (ft.):

Rear Yard Equivalent (ft.):

Side Yard 1 (ft.):

Side Yard 2 (ft.):

Proposed Other Details:

Perimeter Wall Height (ft.):

Enclosed Parking? ☐ Yes ☐ No

No. of parking spaces:

13 Building Characteristics

Occupancy Classification: Existing:

B-1 - STORAGE (MODERATE HAZARD)

2014/2008 Code Designations?

☐ Yes ☒ No

Proposed:

F-1 - FACTORY/INDUSTRIAL: MODERATE HAZAR

☒ Yes ☐ No

Construction Classification: Existing:

I-C: 2 HOUR PROTECTED

☐ Yes ☒ No

Proposed:

I-C: 2 HOUR PROTECTED

☐ Yes ☒ No

Multiple Dwelling Classification: Existing:

Proposed:

Building Height (ft.): Existing: 60

Proposed: 60

Building Stories: Existing: 1

Proposed: 4

Dwelling Units: Existing:

Proposed:

Building was originally erected pursuant to which Building Code: ☐ 2014 ☐ 2008 ☒ 1968 ☐ Prior to 1968The earliest Code with which this building or any part of it is required to ☐ 2014 ☐ 2008 ☒ 1968 ☐ Prior to 1968

comply:

Mixed use building? ☐ Yes ☒ No**14 Fill**
☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards
15 Construction Equipment

Not Applicable

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing		Proposed			Existing		Proposed	
	Yes	No	Yes	No		Yes	No	Yes	No
Fire Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Suppression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standpipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19 Open Spaces

Not Provided

20 Site Characteristics

Not Provided

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance**23 Signs**

Not Applicable

24 Comments**Comments for PAA Document 20 Modifying Document 01****Description of Amendment**

HEREWITH SUBMITTING REVISED PW-1 SECTION 13C AND 13E CHANGES TO MATCH APPROVED PLANS AND SCHEDULE A FORM.

25 Applicant's Statements and Signatures (See paper form or check [Forms Received](#))

Yes No

- ☐ ☐ For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?
- ☐ ☐ Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Not Applicable

Yes No

- ☐ ☐ Owner's Certification Regarding Occupied Housing (Remain Occupied)
- ☐ ☐ Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
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NYC Department of Buildings
Application Details

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JUMP TO:

Premises: 275 LOCUST AVENUE BRONX
BIN: [2004039](#) Block: 2598 Lot: 46

Job No: 220460846

Document: 21 OF 21

Job Type: A1 - ALTERATION TYPE 1

Document Overview	Items Required	Virtual Job Folder	All Permits	Schedule A	Schedule B
Fees Paid	Forms Received		All Comments	C/O Summary	Plumbing Inspections
Crane Information	Plan Examination			C/O Preview	
After Hours Variance Permits					

DOB NOW: [Inspections](#)

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POST APPROVAL AMENDMENT FOR DOC 01

Last Action: PLAN EXAM - APPROVED 02/14/2018 (P)

Application approved on: 08/27/2015

Pre-Filed: 02/12/2018 Building Type: Other
Date Filed: 02/12/2018
Fee Structure: STANDARD
Review is requested under Building Code: 1968

Estimated Total Cost: \$0.00
Electronically Filed: No

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 275 Street Name: LOCUST AVE

Borough: Bronx Block: 2598

Work on Floor(s): 001,1MZ,002,003,004,ROF

Lot: 46 BIN: [2004039](#) CB No: 201

Apt/Condo No(s): Zip Code: 10454

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Name: EDWARD E SHALAT

Business Name: SHALAT ARCHITECTS P.C.

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Business Phone: 212-691-7522

Business Fax:

Mobile Telephone:

License Number: 021332

Applicant Type: ☐ P.E. ☒ R.A. ☐ Sign Hanger ☐ R.L.A. ☐ Other

Directive 14 Applicant

Not Applicable

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Plans Page Count: 0

8 Additional Information

Enlargement proposed?

☐ No ☐ Yes☐ Horizontal ☐ Vertical**9 Additional Considerations, Limitations or Restrictions**

Yes No

☐ ☐ **Alt. required to meet New Building req's (28-101.4.5)**

Yes No

☐ ☐ **Alteration is a major change to exits**☐ ☐ **Change in number of dwelling units**☐ ☐ **Change in Occupancy / Use**☐ ☐ **Change is inconsistent with current certificate of occupancy**☐ ☐ **Change in number of stories**☐ ☐ **Facade Alteration**☐ ☐ **Adult Establishment**☐ ☐ **Compensated Development (Inclusionary Housing)**☐ ☐ **Low Income Housing (Inclusionary Housing)**☐ ☐ **Single Room Occupancy (SRO) Multiple Dwelling**☐ ☐ **Filing includes Lot Merger / Reapportionment**☐ ☐ **Infill Zoning**☐ ☐ **Loft Board**☐ ☐ **Quality Housing**☐ ☐ **Site Safety Job / Project**☐ ☐ **Included in LMCCC****Work Includes:**☐ ☐ **Prefab wood I-joists**☐ ☐ **Structural cold-formed steel**☐ ☐ **Open-web steel joists**☐ ☐ **Landmark**☐ ☐ **Environmental Restrictions (Little E or RD)**☐ ☐ **Unmapped/CCO Street**☐ ☐ **Legalization**☐ ☐ **Other, Specify:**

- ☐ ☐ Filed to Comply with Local Law
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☐ ☐ Work includes modular construction under New York City jurisdiction
☐ ☐ Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
☐ ☐ Work includes permanent removal of standpipe, sprinkler or fire suppression related systems
☐ ☐ Work includes partial demolition as defined in AC §28-101.5, or the raising/moving of a building
☐ ☐ Structural Stability affected by proposed work

BSA Calendar No.(s):

CPC Calendar No.(s):

10 NYCECC Compliance New York City Energy Conservation Code (Applicant Statement)

Not Provided

11 Job Description

Related BIS Job Numbers:

Primary application Job Number:

12 Zoning Characteristics

District(s): NONE

Overlay(s):

Special District(s):

Map No.:

Street legal width (ft.):

Street status: ☐ Public ☐ Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use

Zoning Area (sq.ft.)

District

FAR

Proposed Totals:

--

Existing Total:

--

--

Proposed Lot Details:

Lot Type: ☐ Corner ☐ Interior ☐ Through

Lot Coverage (%):

Lot Area (sq.ft.):

Lot Width (ft.):

Proposed Yard Details:

☐ No Yards Or

Front Yard (ft.): Rear Yard (ft.): Rear Yard Equivalent (ft.):

Side Yard 1 (ft.): Side Yard 2 (ft.):

Proposed Other Details:

Perimeter Wall Height (ft.):

Enclosed Parking? ☐ Yes ☐ No No. of parking spaces:**13 Building Characteristics**

Occupancy Classification: Existing:

Proposed:

Construction Classification: Existing:

Proposed:

Multiple Dwelling Classification: Existing:

Proposed:

Building Height (ft.): Existing:

Proposed:

Building Stories: Existing:

Proposed:

Dwelling Units: Existing:

Proposed:

2014/2008 Code Designations?

☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ No☐ Yes ☐ NoBuilding was originally erected pursuant to which Building Code: ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968The earliest Code with which this building or any part of it is required to ☐ 2014 ☐ 2008 ☐ 1968 ☐ Prior to 1968

comply:

Mixed use building? ☐ Yes ☐ No**14 Fill**
☐ Not Applicable ☐ Off-Site ☐ On-Site ☐ Under 300 cubic yards
15 Construction Equipment

Not Applicable

16 Curb Cut Description

Not Applicable

17 Tax Lot Characteristics

Not Provided

18 Fire Protection Equipment

	Existing		Proposed			Existing		Proposed	
	Yes	No	Yes	No		Yes	No	Yes	No
Fire Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Suppression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standpipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19 Open Spaces

	Existing	Proposed		Existing	Proposed
Plaza Area (sq.ft.):			Arcade Area (sq.ft.):		
Parking Area (sq.ft.):	#	#	Parking Spaces (no.):	#	#
Loading Berths (sq.ft.):	#	#	Loading Berths (no.):	#	#

20 Site Characteristics

Not Provided

21 Demolition Details

Not Applicable

22 Asbestos Abatement Compliance**23 Signs**

Not Applicable

24 Comments**Comments for PAA Document 21 Modifying Document 01****Description of Amendment**

HEREWITH SUBMITTING REVISED PW-1 SECTION 19 NOW SHOWING OMITTED INFORMATION TO MATCH THE APPROVED PLANS AND REVISED SCHEDULE A FORM WITH THE FOLLOWING COMMENT OMITTED: "EMPLOYEE PARKING TO BE PROVIDED OFF-SITE AT 901 EAST 140 STREET"

25 Applicant's Statements and Signatures (See paper form or check [Forms Received](#))

Yes No

- ☐ ☐ For New Building and Alteration 1 applications filed under the 2008 or 2014 NYC Building Code only: does this building qualify for high-rise designation?
- ☐ ☐ Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

26 Owner's Information

Not Applicable

Yes No

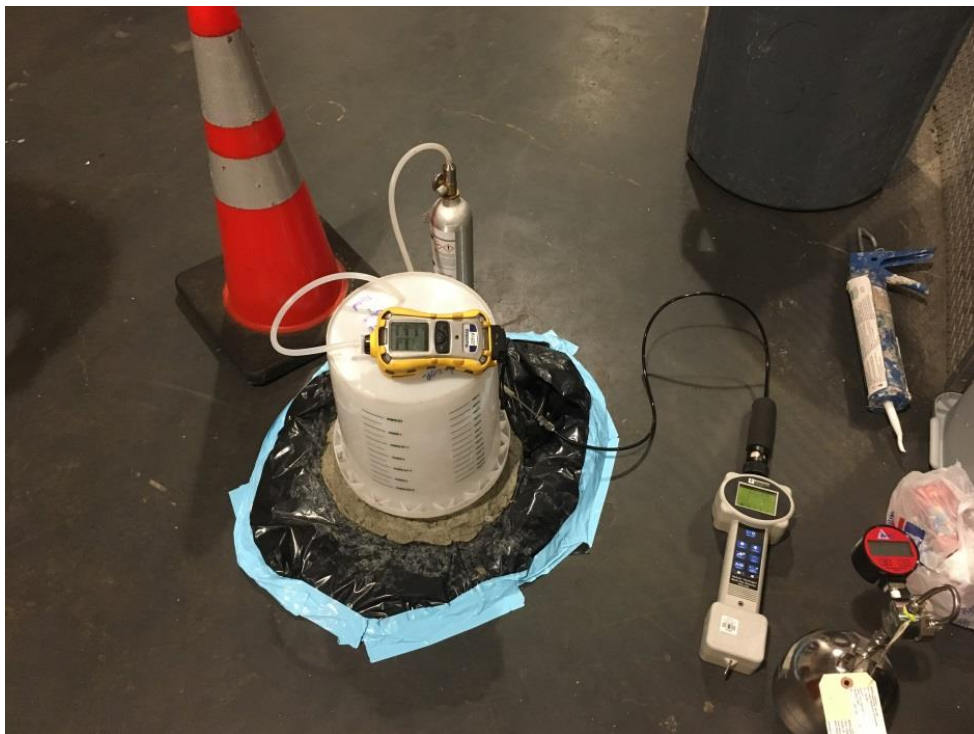
- ☐ ☐ Owner's Certification Regarding Occupied Housing (Remain Occupied)
- ☐ ☐ Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
- ☐ ☐ Owner DHCR Notification
- ☐ ☐ Owner's Certification for Adult Establishment
- ☐ ☐ Owner's Certification for Directive 14 (if applicable)

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

ATTACHMENT C
PHOTOGRAPHIC LOG



Photo 1 – View of Studio 2 area of 295 Locust Avenue, facing east. Taken on 05/15/2018.



Photograph 2 – View of the helium tracer test at SVMF-05. Taken on 05/15/2018.



Photograph 3 - View of effluent exhaust stack on building roof, facing south. Taken on 05/15/2018.



Photo 4 – View of co-located soil vapor and indoor air sample at SVMF -04, facing south. Taken on 05/24/2018.

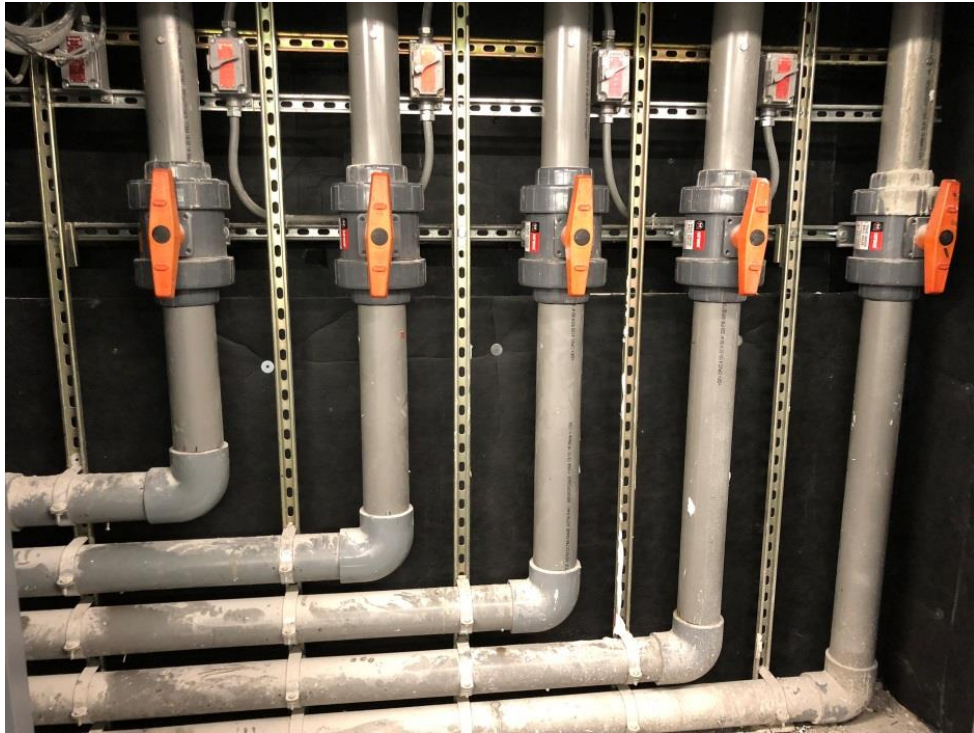


Photo 5 – View of SSDS manifold, located on the east mezzanine, facing east. Taken on 07/26/2018.



Photo 6 – View of SSDS blowers, located on the east mezzanine, facing east. Taken on 07/26/2018.



Photo 7 – View of blower B-3 removal and replacement activities, facing northeast. Taken on 07/26/2018.



Photograph 8 – View of replacement blower B-3 (left) and inoperable blower (right). Taken on 07/26/2018.



Photograph 9 - View of SSDS blowers with replacement B-3, located on the east mezzanine, facing southeast. Taken on 07/26/2018.

ATTACHMENT D
SITE INSPECTION FORMS

Product Inventory Form
295 Locust Avenue
Bronx, New York
Langan Project No. 170312501

PRODUCT INVENTORY FORM

Date: 5/15/2018

Field Personnel: Taylor Morgan

Weather: Sunny, 55-85 F, 50% humidity

Make and Model of Field Instrument Used: PID MiniRAE 3000

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

[illegible]

* Describe the condition of the product containers as Unopened (UO), Used (U), or Damaged (D)

** Photographs of the front and back of product container can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

SITE WIDE INSPECTION CHECKLIST

Site Name: **295 Locust Avenue**

Location: **Bronx, New York**

Project Number: **1702312501**

Inspector Name: Taylor Morgan

Date: May 15, 2018

Weather:

Sunny, 55-85 F, 50% humidity

Reason for Inspection (i.e., routine, severe condition, etc.):

Site Management Plan Inspection Years: 2017 - 2018

Check one of the following: **Y**: Yes **N**: No **NA**: Not Applicable

		Y	N	NA	Normal Situation	Remarks
General						
1	What are the current site conditions?	--	--	--	--	Active film and production studio. First level holds lobby, loading area, and 4 studios with central corridor
2	Are all applicable site records (e.g., documentation of construction activity, SSD or HVAC system maintenance and repair, most current easement, etc.) complete and up to date?	X			Y	
Easement						
3	Has site use (commercial) remained the same?	X			Y	
4	Does it appear that all environmental easement restrictions have been followed?	X			Y	
Impermeable Cap						
5	Are there any indications of a breach in the capping system at the time of this inspection?		X		N	Nothing different than last inspection
6	Are there any cracks in the building slabs?		X		N	
7	Are there any cracks in the building walls?		X		N	
8	Is there any construction activity, or indication of any construction activity within the past certification year, that included the breaching of the capping system, on-site at the time of this inspection?		X		-	
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?		X		NA if N to 6/ Y if Y to 8	
SSD Systems						
10	Are all visible SSD system components intact and operational at the time of this inspection (i.e. fan(s), system drains, exhaust stack)?	X			Y	
11	Were any system repairs made within the past year? Were the corrective actions implemented to repair the sub-slab depressurization system?		X		N	

SITE WIDE INSPECTION CHECKLIST

Site Name: **295 Locust Avenue** Location: **Bronx, New York** Project Number: **1702312501**
 Inspector Name: Taylor Morgan Date: May 15, 2018 Weather: Sunny, 55-85 F, 50% humidity
 Reason for Inspection (i.e., routine, severe condition, etc.): Site Management Plan Inspection Years: 2017 - 2018

Check one of the following: Y: Yes N: No NA: Not Applicable		Y	N	NA	Normal Situation	Remarks
Groundwater Monitoring Well Network						
12	Are all wells within the groundwater monitoring network intact and secured at the time of this inspection?	X				
13	Have the minimum number of groundwater monitoring events been conducted for the certification year (i.e., annually)?			NA	Y	
14	Is groundwater at the property being extracted for uses other than monitoring or remediation?			NA	N	
East 140th Street Parking Lot						
15	Is the East 140th Street parking lot in place and covering accessible soil?	X			Y	
16	Were any repairs made to the parking lot during the reporting year?		X		N	

If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.

Additional remarks:

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

ATTACHMENT E

SSDS BLOWER INSPECTION LOGS

SSDS Blower Readings
295 Locust Avenue
Bronx, New York
Langan Project No. 170312501

Location:	295 Locust Avenue, Bronx, NY
Field Engineer:	Taylor Morgan/Nicole Kung
Langan Project No:	170312501

Blower System Monitoring Data Summary

Monitoring Point ID	Date	Vacuum/ Pressure (in. wc)	Explosive Gas (%LEL)	VOC by PID (ppm)	Actual Velocity (ft/min)	Calculated Volumetric Flow (ACFM)	Calculated Volumetric Flow (SCFM)	Temperature (Deg. F)
B-1 Influent	5/15/2018	-	0.0%	1.2	289	100.88	-	76.3
B-2 Influent		-	0.0%	41.3	291	101.58	-	78.1
B-3 Influent		-	0.0%	21.2	1	0.35	-	79.3
B-4 Influent		-	0.0%	4.7	366	127.76	-	78.8
B-5 Influent		-	0.0%	2.3	621	216.77	-	78.5
Effluent Manifold		-	0.0%	4.4	190	66.32	-	75.4
B-1 Influent	5/24/2018	-2.2	0.0%	0.7	588	205.25	203.30	78.0
B-2 Influent		-2.8	0.0%	1.6	413	144.16	141.56	83.5
B-3 Influent		0	0.0%	19.5	0	0.00	0.00	76.1
B-4 Influent		-2.6	0.0%	25.0	284	99.13	97.44	82.7
B-5 Influent		-2.8	0.0%	0.9	325	113.45	111.03	85.3
Effluent Manifold		0.25	0.0%	3.9	174	60.74	59.06	84.7
B-1 Influent	7/26/2018	-2.4	0.0%	4.8	662	231.08	229.76	76.2
B-2 Influent		-2.8	0.0%	109.6	192	67.02	66.68	76.4
B-3 Influent		-2.6	0.0%	294.2	242	84.47	82.89	83.6
B-4 Influent		-2.8	0.0%	15000	194	67.72	67.20	77.8
B-5 Influent		-3	0.0%	21.1	187	65.28	65.12	75.2
Effluent Manifold		0.5	0.0%	55.9	165	57.60	56.61	78.6

Notes:

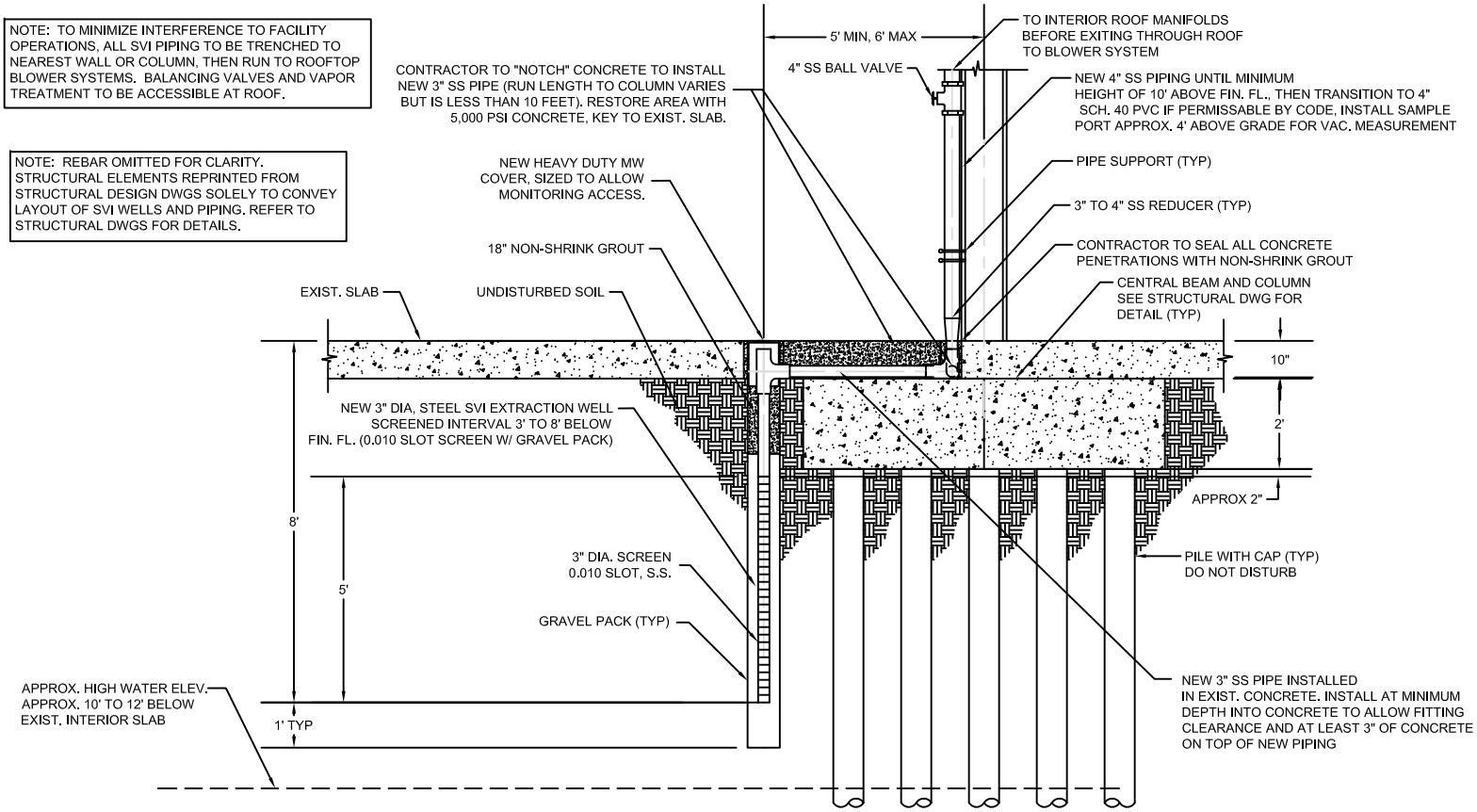
1. Vacuum readings are negative, pressure readings are positive
2. Vacuum pressure readings collected on 05/15/2018 were collected using a VelociCalc
3. Vacuum pressure readings collected on 05/24/2018 and 07/26/2018 were collected using a magnahelic gauge.
4. ACFM = Actual cubic feet per minute
5. SCFM = Standard cubic feet per minute

ATTACHMENT F

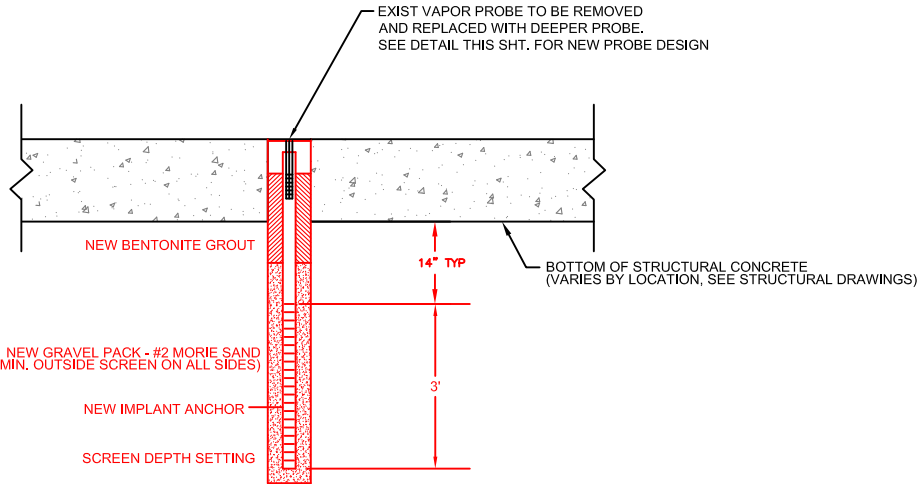
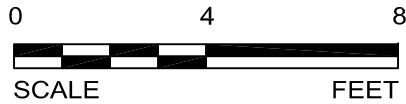
SOIL VAPOR MITIGATION CONSTRUCTION LOGS

NOTE: TO MINIMIZE INTERFERENCE TO FACILITY OPERATIONS, ALL SVI PIPING TO BE TRENCHED TO NEAREST WALL OR COLUMN, THEN RUN TO ROOFTOP BLOWER SYSTEMS. BALANCING VALVES AND VAPOR TREATMENT TO BE ACCESSIBLE AT ROOF.

NOTE: REBAR OMITTED FOR CLARITY. STRUCTURAL ELEMENTS REPRINTED FROM STRUCTURAL DESIGN DWGS SOLELY TO CONVEY LAYOUT OF SVI WELLS AND PIPING. REFER TO STRUCTURAL DWGS FOR DETAILS.



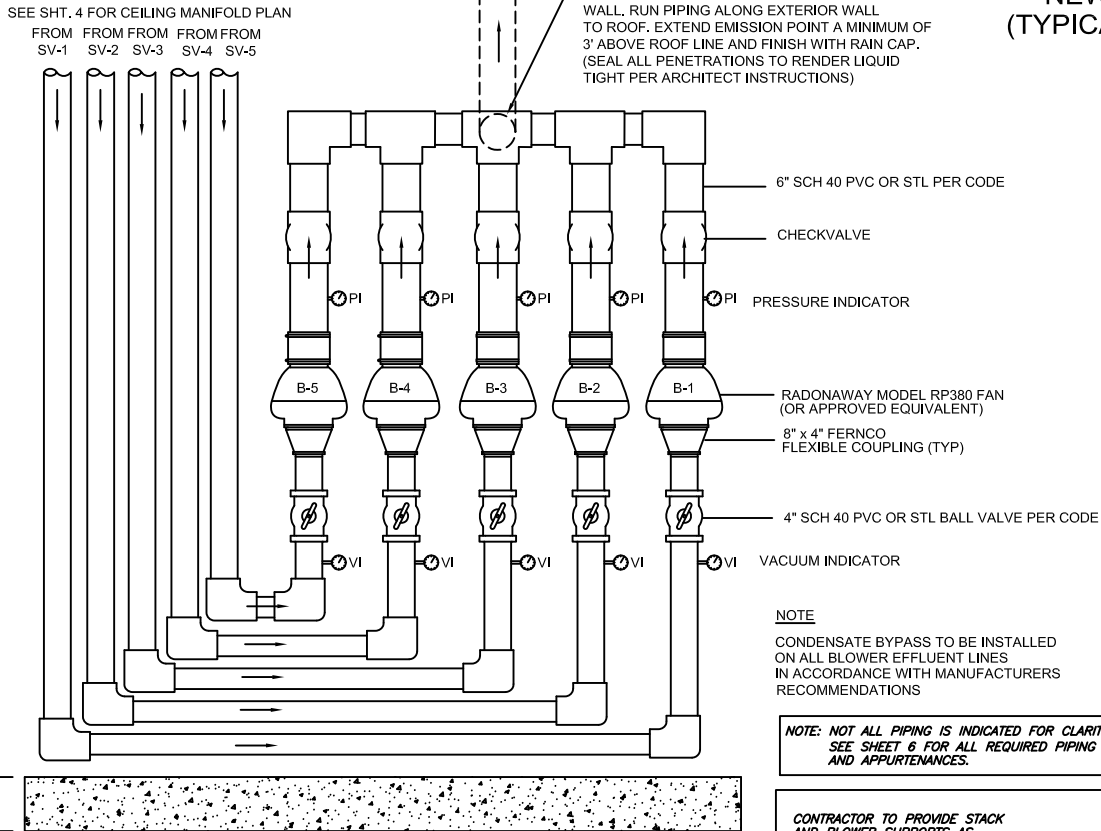
SVI EXTRACTION WELL AND PIPING DETAIL
(TYPICAL FOR ALL SVI WELLS)



VAPOR MONITORING POINT MODIFICATION DETAIL
(TYPICAL FOR SVMF-01, -02, -05, AND -06)

NOT TO SCALE

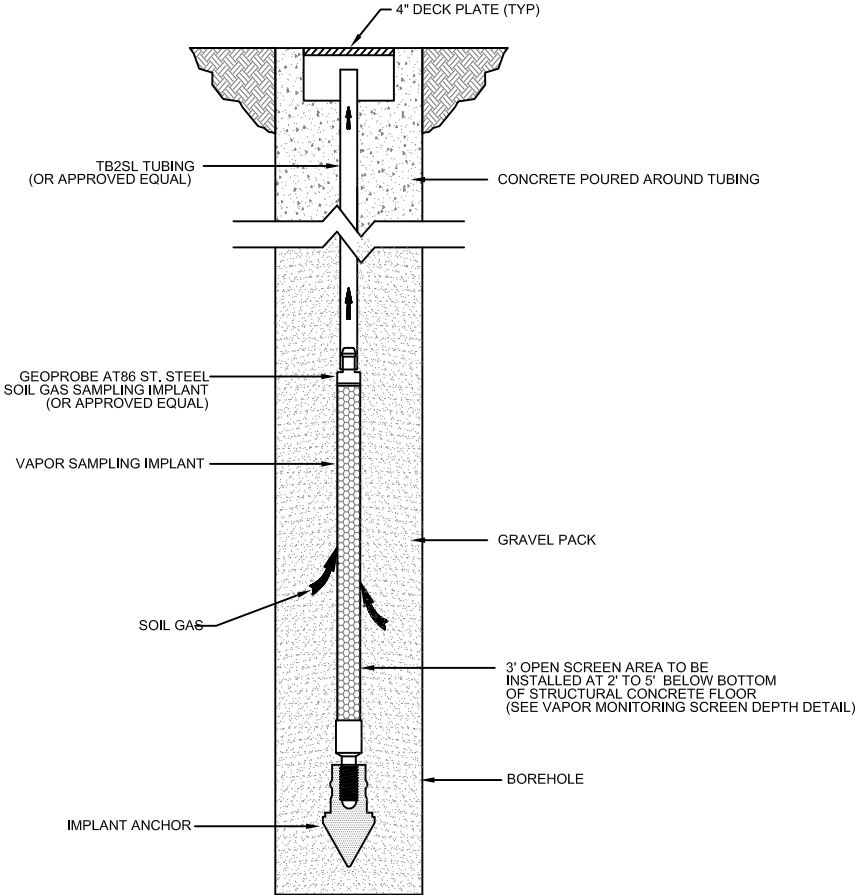
MEZZANINE FLOOR ABOVE LOADING DOCK, ALONG LOCUST AVE.



BLOWER MANIFOLD DETAIL

MANIFOLD TO BE INSTALLED AS CLOSE TO LOCUST AVE. WALL AS POSSIBLE

NOT TO SCALE



NEW SOIL VAPOR MONITORING POINT DETAIL
(TYPICAL FOR MODIFIED SVFM-01, -02, -05, AND -06)

NOT TO SCALE

REVISION 1:
1. ADDED BLOWER FOR EACH SVI WELL (TOT. 5)
2. REVISED BLOWER DETAIL TO SHOW NEW MANIFOLD FOR 5 BLOWERS ON MEZZANINE
3. MODIFIED VAPOR PROBE DETAIL TO SHOW RETROFIT OF EXISTING VAPOR PROBES.



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Manorville, New York 11949
Ph: 914-319-9375
Email: techsolnpc@gmail.com

SVI MITIGATION WELL AND PIPING DETAILS / SECTIONS

LOCATION:	295 LOCUST AVE. BRONX, NEW YORK	DESIGN:	DJS
PROJECT NO / FILE	SUSDEV1201.01 Sht 3 - SVI Detail	DRAWING DATE:	03/04/12
REV. NO.:	1	FIGURE:	3

ATTACHMENT G

SOIL VAPOR SAMPLING LOGS

Attachment G
Site Management Plan Operation Report
Soil Vapor Sampling Documentation
295 Locust Avenue
Bronx, New York
Langan Project No. 170312501

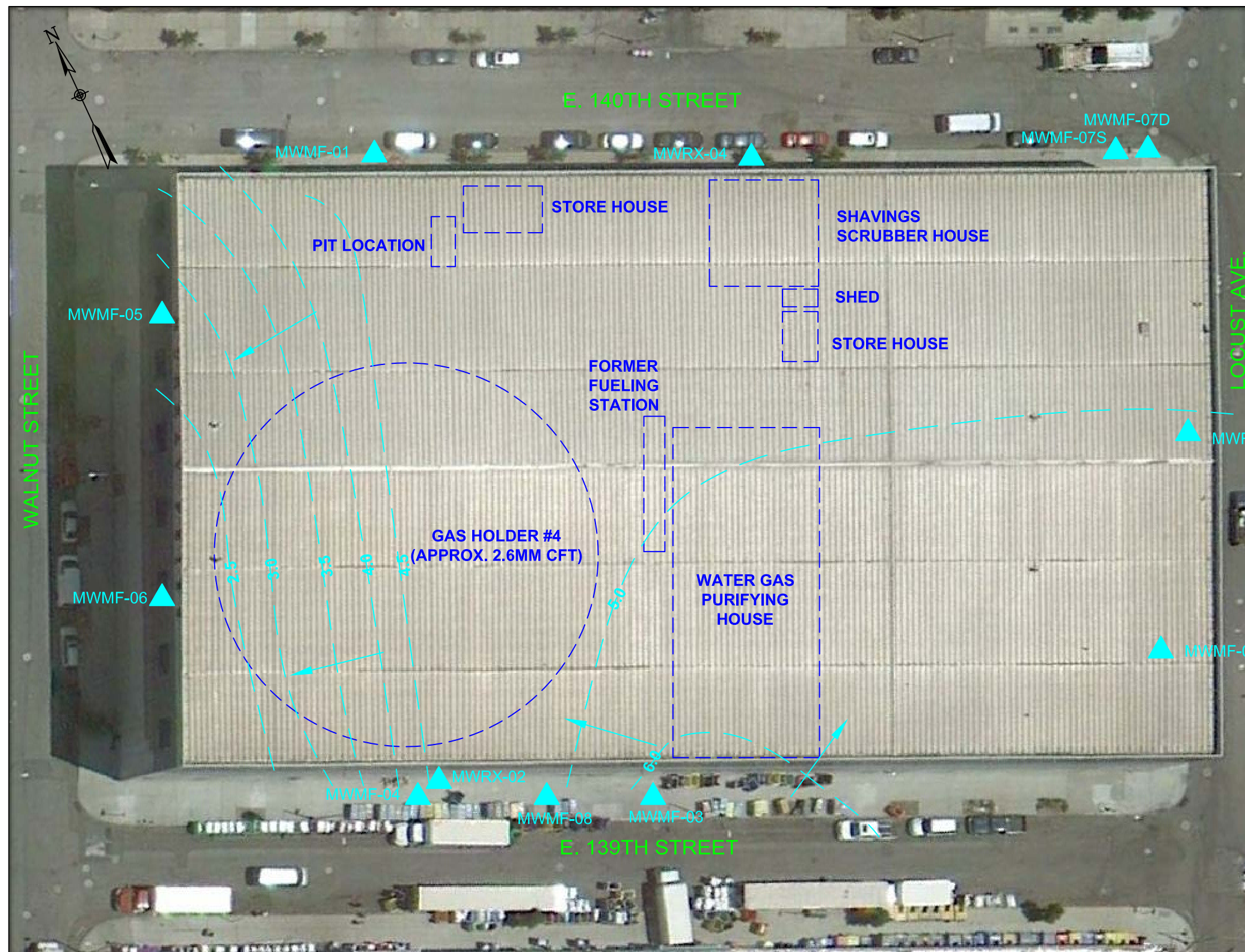
Sample ID	Date	Weather	Pre-Purge PID Reading - Sample Tubing (ppm)	Pre-Purge Helium Reading Bucket (%)	Pre-Purge Helium Reading - Sample Tubing (ppm)	Post-Purge PID Reading - Sample Tubing (ppm)	Summa Canister No.	Regulator No.	Regulator Volume Rate (mL/min)	Start Time	Summa Canister Start Pressure (in Hg)	Stop Time	Summa Canister Stop Pressure (in Hg)	Post-Sampling Helium Reading Bucket (%)	Post-Sampling Helium Reading - Sample Tubing (ppm)	Post-Sampling Reading - Sample Tubing (ppm)	Sample Location
AA 01	5/15/2018	Sunny, 60° F	-	-	-	-	238	0625	17.9	11:32:00 AM	-29.70	1:32:00 PM	-5.32	-	-	-	Exterior, on sidewalk near site entrance at Locust Avenue and East 140th Street
IA-02	5/15/2018	Sunny, 60° F	-	-	-	-	424	0622	18.0	11:27:00 AM	-30.01	1:27:00 PM	-6.17	-	-	-	Interior central hallway, near Studio 4 entrance
SVMF-02	5/15/2018	Sunny, 60° F	8.1	12.7	0.0	2.8	340	0490	18.0	11:28:00 AM	-30.06	1:26:00 PM	-3.99	12.1	0.0	4.1	Interior central hallway, near Studio 4 entrance
IA-05	5/15/2018	Sunny, 60° F	-	-	-	-	125	0733	18.0	11:24:00 AM	-30.00	1:24:00 PM	-4.66	-	-	-	Interior cooridor, opposite freight elevator
SVMF-05	5/15/2018	Sunny, 60° F	5.2	12.10	0.0	3.4	1719	0752	18.0	11:25:00 AM	-29.92	12:58:00 PM	-4.68	15.3	0.0	4.9	Interior cooridor, opposite freight elevator
IA-04	5/15/2018	Sunny, 60° F	-	-	-	-	414	0454	17.9	11:31:00 AM	-29.61	1:31:00 PM	-5.22	-	-	-	Interior, in the southwest portion of Studio 2
SVMF-04	5/15/2018	Sunny, 60° F	2.4	13.90	0.0	2.6	554	0931	18.0	11:30:00 AM	-29.85	1:30:00 PM	-6.46	17.7	3500	5.2	Interior, in the southwest portion of Studio 2
IA-04	5/24/2018	Sunny, 60° F	-	-	-	-	373	0403	18.0	1:48:00 PM	-30.13	3:48:00 PM	-6.02	-	-	-	Interior, in the southwest portion of Studio 2
SVMF-04	5/24/2018	Sunny, 60° F	0.4	13.60	0.0	0.4	448	01036	17.9	1:45:00 PM	-29.90	3:45:00 PM	-6.34	14.5	0	0.3	Interior, in the southwest portion of Studio 2

Notes:

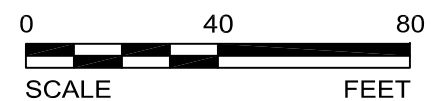
1. Samples IA-04 and SVMF-04, collected on 05/15/2018, were not run for laboratory analysis.
2. PID = photoionization detector
3. ppm = parts per million
4. in Hg = inches mercury
5. mL/min - milliliters per minute
6. L = liters

ATTACHMENT H

SOIL VAPOR MITIGATION SYSTEM DETAILS



SITE PLAN W/ FORMER INFRASTRUCTURE



LOCATION MAP
BRONX, NY (NTS)

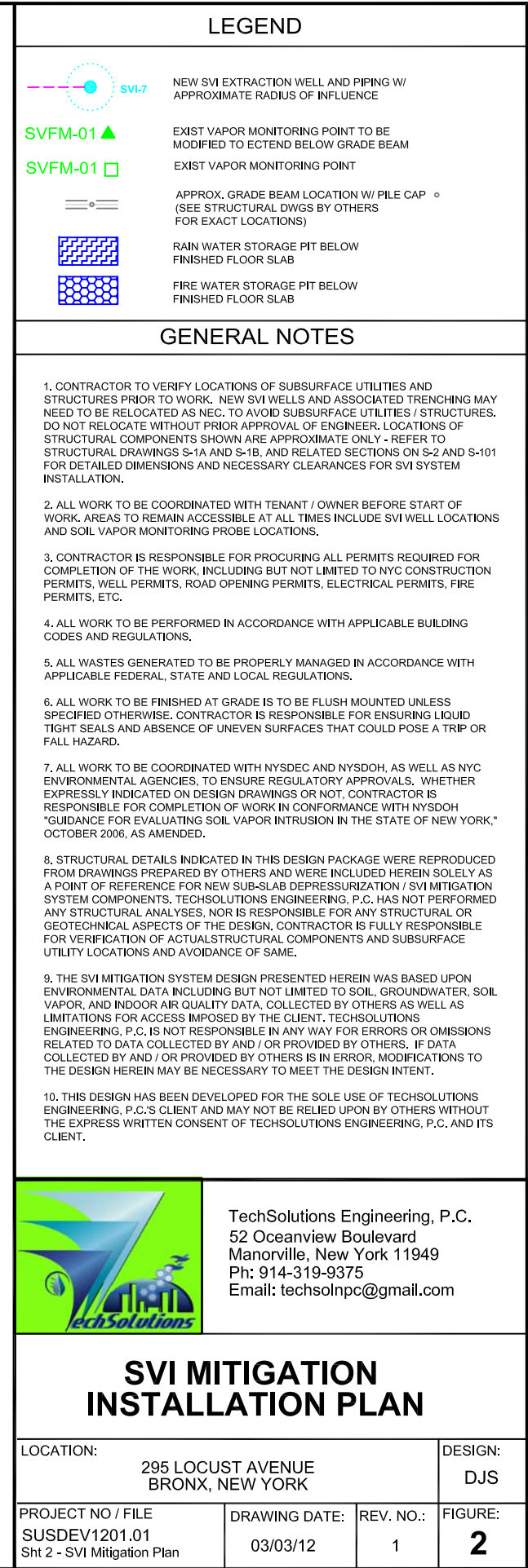
- FORMER MGP INFRASTRUCTURE LOCATION (APPROX.)
- MONITORING WELL
- GW ELEV. CONTOUR (APPROX. FT AMSL, 5/4/2011 URS)
- INFERRED GW FLOW DIRECTION



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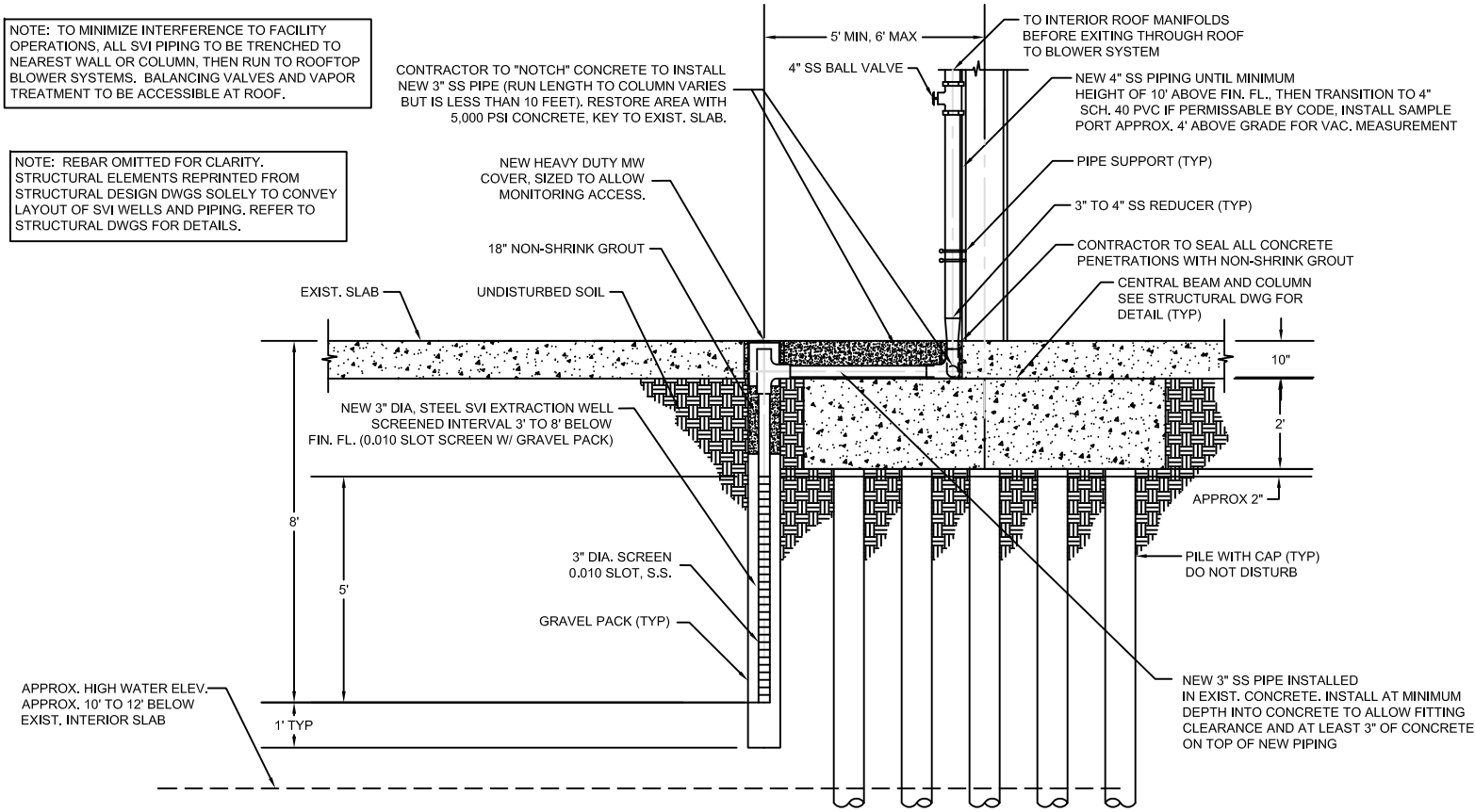
SITE PLAN

LOCATION:	STREET ADDRESS CITY, STATE	DESIGN: DJS
PROJECT NO / FILE SUSDEV1201.01 SHEET 1 - SITE PLAN	DRAWING DATE: 02/19/12	REV. NO.: FIGURE: 1

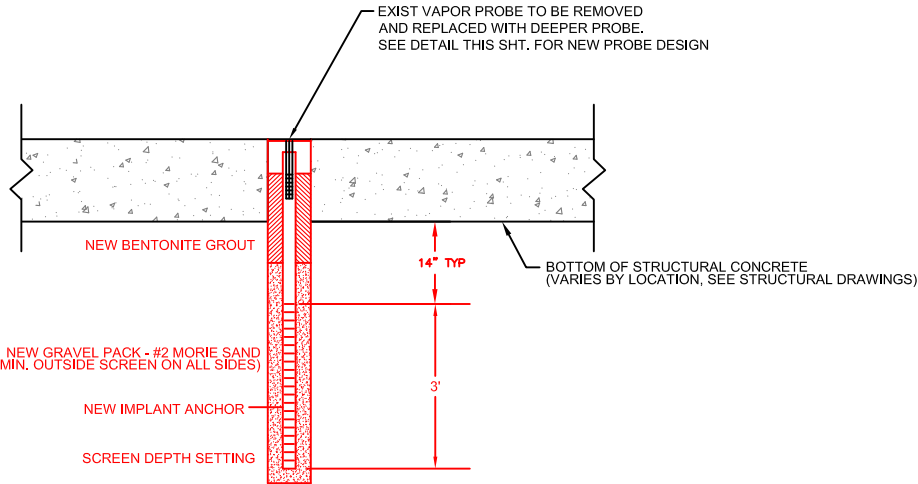
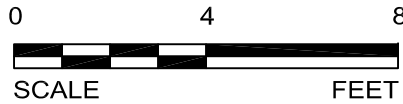


NOTE: TO MINIMIZE INTERFERENCE TO FACILITY OPERATIONS, ALL SVI PIPING TO BE TRENCHED TO NEAREST WALL OR COLUMN, THEN RUN TO ROOFTOP BLOWER SYSTEMS. BALANCING VALVES AND VAPOR TREATMENT TO BE ACCESSIBLE AT ROOF.

NOTE: REBAR OMITTED FOR CLARITY. STRUCTURAL ELEMENTS REPRINTED FROM STRUCTURAL DESIGN DWGS SOLELY TO CONVEY LAYOUT OF SVI WELLS AND PIPING. REFER TO STRUCTURAL DWGS FOR DETAILS.



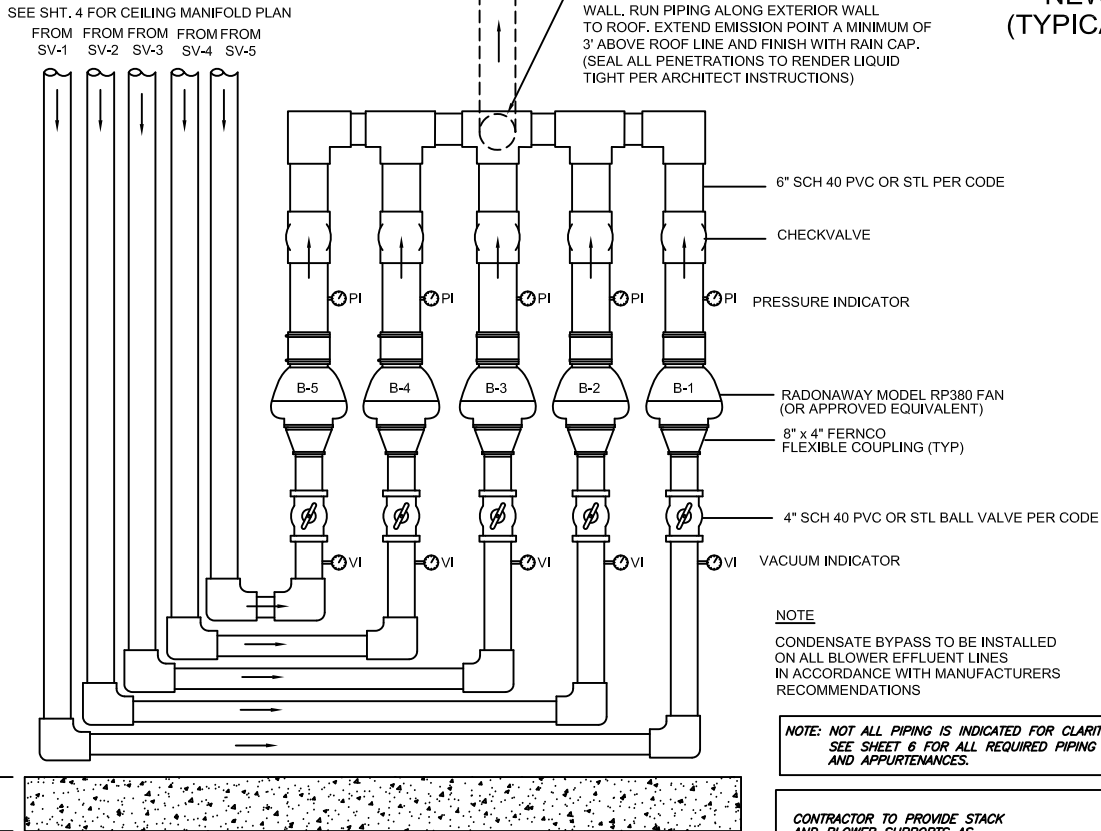
SVI EXTRACTION WELL AND PIPING DETAIL
(TYPICAL FOR ALL SVI WELLS)



VAPOR MONITORING POINT MODIFICATION DETAIL
(TYPICAL FOR SVMF-01, -02, -05, AND -06)

NOT TO SCALE

MEZZANINE FLOOR ABOVE
LOADING DOCK, ALONG LOCUST AVE.



BLOWER MANIFOLD DETAIL

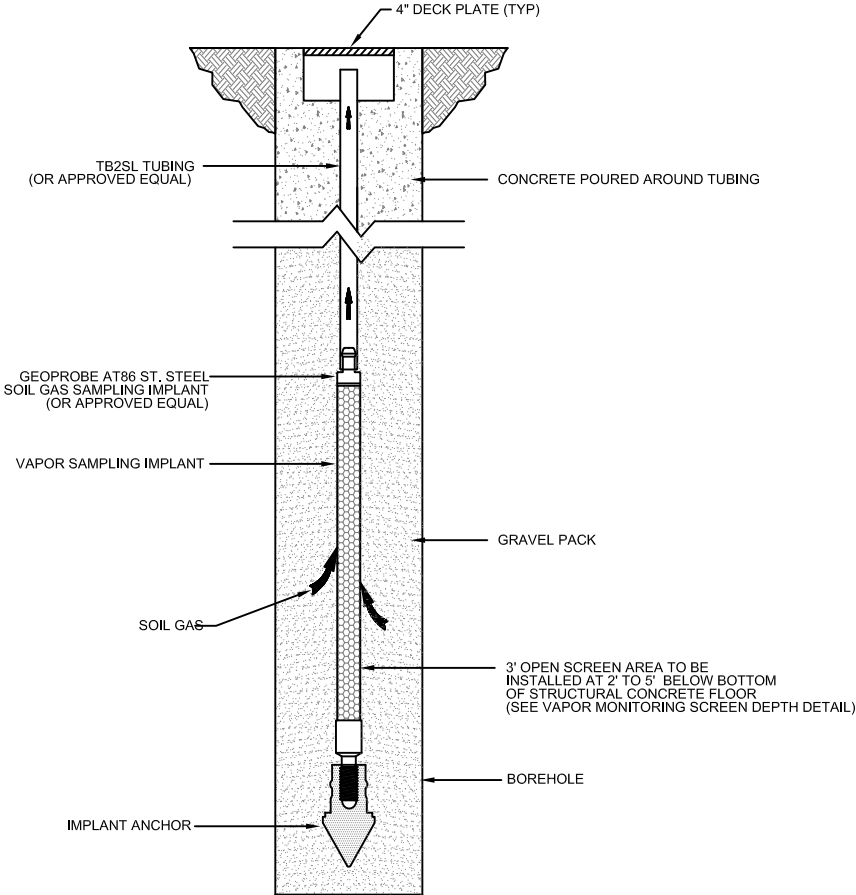
MANIFOLD TO BE INSTALLED AS CLOSE TO
LOCUST AVE. WALL AS POSSIBLE

NOT TO SCALE

NOTE
CONDENSATE BYPASS TO BE INSTALLED
ON ALL BLOWER EFFLUENT LINES
IN ACCORDANCE WITH MANUFACTURERS
RECOMMENDATIONS

NOTE: NOT ALL PIPING IS INDICATED FOR CLARITY,
SEE SHEET 6 FOR ALL REQUIRED PIPING
AND APPURTENANCES.

CONTRACTOR TO PROVIDE STACK
AND BLOWER SUPPORTS AS
NECESSARY TO MEET LOCAL BUILDING
CODES AND TO SUSTAIN 100 MPH WIND
WITHOUT DAMAGE OR FUNCTION FAILURE.



NEW SOIL VAPOR MONITORING POINT DETAIL
(TYPICAL FOR MODIFIED SVFM-01, -02, -05, AND -06)

NOT TO SCALE

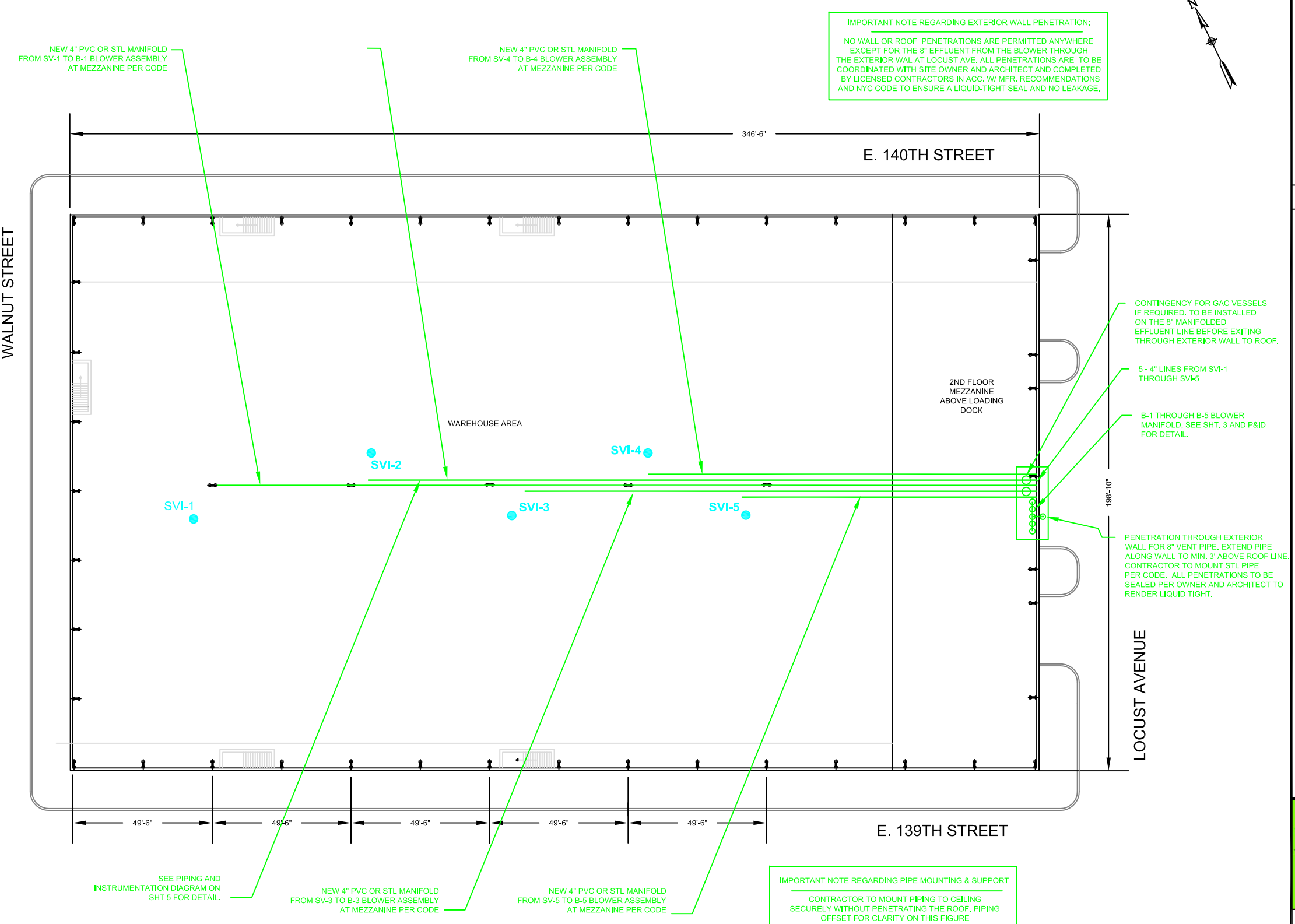
REVISION 1:
1. ADDED BLOWER FOR EACH SVI WELL (TOT. 5)
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MANIFOLD FOR 5 BLOWERS ON MEZZANINE
3. MODIFIED VAPOR PROBE DETAIL TO SHOW
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SVI MITIGATION WELL AND PIPING DETAILS / SECTIONS

LOCATION:	295 LOCUST AVE. BRONX, NEW YORK	DESIGN:	DJS
PROJECT NO / FILE SUSDEV1201.01 Sht 3 - SVI Detail	DRAWING DATE: 03/04/12	REV. NO.: 1	FIGURE: 3



LEGEND

● SVI-3

NEW SVI EXTRACTION WELL & PIPING IN FIN. FL.
(at grade level - shown for perspective only)

—

NEW SVI PIPING MANIFOLD ON CEILING
(INSTALL INSIDE PRIOR TO ROOF PENETRATION
WHERE SHOWN. SEE S&ID FOR DETAIL)

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATIONS OF ROOF SUPPORTS BEFORE WORK. NEW CEILING MANIFOLDS MAY NEED TO BE RELOCATED AS NEC. TO AVOID ELECTRICAL FIXTURES, LIGHTING AND STRUCTURES. DO NOT RELOCATE WITHOUT PRIOR APPROVAL OF ENGINEER. LOCATIONS OF STRUCTURAL COMPONENTS (I.E., COLUMN CENTERLINES AND LOCATIONS) SHOWN ARE APPROXIMATE ONLY - REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS BY OTHERS FOR DETAILED DIMENSIONS AND NECESSARY CLEARANCES FOR SVI SYSTEM INSTALLATION.

2. ALL WORK TO BE COORDINATED WITH TENANT / OWNER BEFORE START OF WORK. AREAS TO REMAIN ACCESSIBLE AT ALL TIMES INCLUDE SVI WELL LOCATIONS, BLOWER SYSTEMS ON ROOF, AND SOIL VAPOR MONITORING PROBE LOCATIONS.

3. CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL PERMITS REQUIRED FOR COMPLETION OF THE WORK, INCLUDING BUT NOT LIMITED TO NYC CONSTRUCTION PERMITS, WELL PERMITS, ROAD OPENING PERMITS, ELECTRICAL PERMITS, FIRE PERMITS, ROOF REPAIR PERMITS, ETC.

4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND REGULATIONS.

5. ALL WASTES GENERATED TO BE PROPERLY MANAGED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

6. ALL WORK TO BE FINISHED AT ROOF AND CEILING IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ROOF MANUFACTURER AND ARCHITECT RECOMMENDATIONS TO ENSURE THAT ROOF INTEGRITY IS NOT IMPACTED. ONLY THE ROOF PENETRATIONS SHOWN ON THESE DRAWINGS ARE PERMITTED AND THOSE PENETRATIONS MUST BE MADE PER ARCHITECT AND ROOF MANUFACTURER RECOMMENDATIONS TO ENSURE A LIQUID TIGHT SEAL.

7. ALL WORK TO BE COORDINATED WITH NYSDEC AND NYSDOH, AS WELL AS NYC ENVIRONMENTAL AGENCIES, TO ENSURE REGULATORY APPROVALS. WHETHER EXPRESSLY INDICATED ON DESIGN DRAWINGS OR NOT, CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF WORK IN CONFORMANCE WITH NYSDOH "GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK," OCTOBER 2006, AS AMENDED.

8. STRUCTURAL AND ARCHITECTURAL DETAILS INDICATED IN THIS DESIGN PACKAGE WERE REPRODUCED FROM DRAWINGS PREPARED BY OTHERS AND WERE INCLUDED HEREIN SOLELY AS A POINT OF REFERENCE FOR NEW SUB-SLAB DEPRESSURIZATION / SVI MITIGATION SYSTEM COMPONENTS. TECHSOLUTIONS ENGINEERING, P.C. HAS NOT PERFORMED ANY STRUCTURAL ANALYSES, NOR IS RESPONSIBLE FOR ANY STRUCTURAL OR GEOTECHNICAL ASPECTS OF THE DESIGN. CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF ACTUAL STRUCTURAL COMPONENTS AND SUBSURFACE UTILITY LOCATIONS AND AVOIDANCE OF SAME.

9. THE SVI MITIGATION SYSTEM DESIGN PRESENTED HEREIN WAS BASED UPON ENVIRONMENTAL DATA INCLUDING BUT NOT LIMITED TO SOIL, GROUNDWATER, SOIL VAPOR, AND INDOOR AIR QUALITY DATA, COLLECTED BY OTHERS AS WELL AS LIMITATIONS FOR ACCESS IMPOSED BY THE CLIENT. TECHSOLUTIONS ENGINEERING, P.C. IS NOT RESPONSIBLE IN ANY WAY FOR ERRORS OR OMISSIONS RELATED TO DATA COLLECTED BY AND / OR PROVIDED BY OTHERS. IF DATA COLLECTED BY AND / OR PROVIDED BY OTHERS IS IN ERROR, MODIFICATIONS TO THE DESIGN HEREIN MAY BE NECESSARY TO MEET THE DESIGN INTENT.

10. THIS DESIGN HAS BEEN DEVELOPED FOR THE SOLE USE OF TECHSOLUTIONS ENGINEERING, P.C.'S CLIENT AND MAY NOT BE RELIED UPON BY OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF TECHSOLUTIONS ENGINEERING, P.C. AND ITS CLIENT.

TechSolutions Engineering, P.C.

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Manorville, New York 11949

Ph: 914-319-9375

Email: techsolnpc@gmail.com

CEILING MANIFOLD PLAN

LOCATION:

295 LOCUST AVENUE
BRONX, NEW YORK

DESIGN:

DJS

PROJECT NO / FILE

SUSDEV1201.01

Sht 4 - Ceiling Manifold Plan

DRAWING DATE:

03/04/12

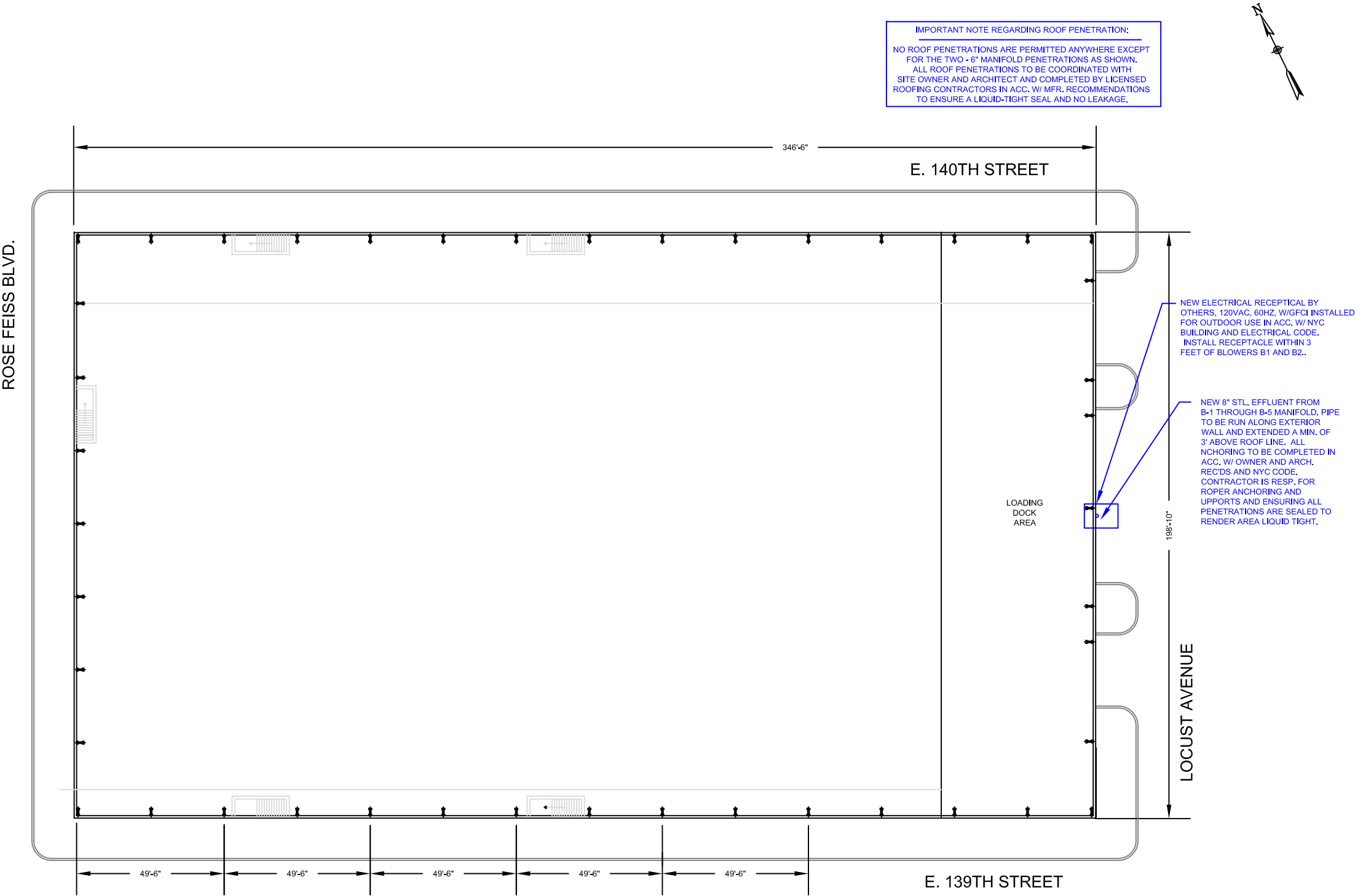
REV. NO.:

1

FIGURE:

4

REVISION 1:
1. REVISED MANIFOLD SO THAT EACH BLOWER HAS DEDICATED 4" PIPING TO DEDICATED BLOWER.
2. RELOCATED BLOWER PACKAGES TO 2ND FLOOR MEZZANINE
3. ELIMINATED ROOF PENETRATION, NEW EFFLUENT PIPE FROM BLOWER TO ROOF TO EXIT THROUGH LOCUST EXTERIOR WALL.
4. MODIFIED PIPING TO STL. AS REQD TO MEET NYC CODE.



LEGEND

NEWMANIFOLD FROM B-1 THROUGH B-5 TO ROOF. ADJUST AS NECESSARY BASED UPON STRUCTURAL SUPPORTS FOR ROOF (BY OTHERS).

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATIONS OF ROOF SUPPORTS BEFORE WORK. NEW CEILING MANIFOLDS MAY NEED TO BE RELOCATED AS NEC. TO AVOID ELECTRICAL FIXTURES, LIGHTING AND STRUCTURES. DO NOT RELOCATE WITHOUT PRIOR APPROVAL OF ENGINEER. LOCATIONS OF STRUCTURAL COMPONENTS (I.E., COLUMN CENTERLINES AND LOCATIONS) SHOWN ARE APPROXIMATE ONLY - REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS BY OTHERS FOR DETAILED DIMENSIONS AND NECESSARY CLEARANCES FOR SVI SYSTEM INSTALLATION.

2. ALL WORK TO BE COORDINATED WITH TENANT / OWNER BEFORE START OF WORK. AREAS TO REMAIN ACCESSIBLE AT ALL TIMES INCLUDE SVI WELL LOCATIONS, BLOWER SYSTEMS ON ROOF, AND SOIL VAPOR MONITORING PROBE LOCATIONS.

3. CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL PERMITS REQUIRED FOR COMPLETION OF THE WORK, INCLUDING BUT NOT LIMITED TO NYC CONSTRUCTION PERMITS, WELL PERMITS, ROAD OPENING PERMITS, ELECTRICAL PERMITS, FIRE PERMITS, ROOF REPAIR PERMITS, ETC.

4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND REGULATIONS. ELECTRICAL RECEPTACLE INSTALLATION ON ROOF AND BLOWER ELECTRICAL CONNECTIONS BY OTHERS.

5. ALL WASTES GENERATED TO BE PROPERLY MANAGED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

6. ALL WORK TO BE FINISHED AT ROOF AND CEILING IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ROOF MANUFACTURER AND ARCHITECT RECOMMENDATIONS TO ENSURE THAT ROOF INTEGRITY IS NOT IMPACTED. ONLY THE ROOF PENETRATIONS SHOWN ON THESE DRAWINGS ARE PERMITTED AND THOSE PENETRATIONS MUST BE MADE PER ARCHITECT AND ROOF MANUFACTURER RECOMMENDATIONS TO ENSURE A LIQUID TIGHT SEAL.

7. ALL WORK TO BE COORDINATED WITH NYSDEC AND NYSDOH, AS WELL AS NYC ENVIRONMENTAL AGENCIES, TO ENSURE REGULATORY APPROVALS. WHETHER EXPRESSLY INDICATED ON DESIGN DRAWINGS OR NOT, CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF WORK IN CONFORMANCE WITH NYSDOH "GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK," OCTOBER 2006, AS AMENDED.

8. STRUCTURAL AND ARCHITECTURAL DETAILS INDICATED IN THIS DESIGN PACKAGE WERE REPRODUCED FROM DRAWINGS PREPARED BY OTHERS AND WERE INCLUDED HEREIN SOLELY AS A POINT OF REFERENCE FOR NEW SUB-SLAB DEPRESSURIZATION / SVI MITIGATION SYSTEM COMPONENTS. TECHSOLUTIONS ENGINEERING, P.C. HAS NOT PERFORMED ANY STRUCTURAL ANALYSES, NOR IS RESPONSIBLE FOR ANY STRUCTURAL OR GEOTECHNICAL ASPECTS OF THE DESIGN. CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF ACTUAL STRUCTURAL COMPONENTS AND SUBSURFACE UTILITY LOCATIONS AND AVOIDANCE OF SAME.

9. THE SVI MITIGATION SYSTEM DESIGN PRESENTED HEREIN WAS BASED UPON ENVIRONMENTAL DATA INCLUDING BUT NOT LIMITED TO SOIL, GROUNDWATER, SOIL VAPOR, AND INDOOR AIR QUALITY DATA, COLLECTED BY OTHERS AS WELL AS LIMITATIONS FOR ACCESS IMPOSED BY THE CLIENT. TECHSOLUTIONS ENGINEERING, P.C. IS NOT RESPONSIBLE IN ANY WAY FOR ERRORS OR OMISSIONS RELATED TO DATA COLLECTED BY AND / OR PROVIDED BY OTHERS. IF DATA COLLECTED BY AND / OR PROVIDED BY OTHERS IS IN ERROR, MODIFICATIONS TO THE DESIGN HEREIN MAY BE NECESSARY TO MEET THE DESIGN INTENT.

10. THIS DESIGN HAS BEEN DEVELOPED FOR THE SOLE USE OF TECHSOLUTIONS ENGINEERING, P.C.'S CLIENT AND MAY NOT BE RELIED UPON BY OTHERS WITHOUT THE EXPRESS WRITTEN CONSENT OF TECHSOLUTIONS ENGINEERING, P.C. AND ITS CLIENT.

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ROOFING PLAN
NEW SVI COMPONENTS

LOCATION:295 LOCUST AVENUE
BRONX, NEW YORK

DESIGN:DJS

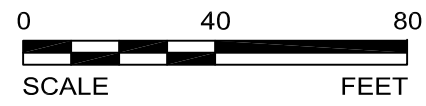
PROJECT NO / FILE
SUSDEV1201.01
Sht 4 - Ceiling Manifold Plan

DRAWING DATE:
03/04/12

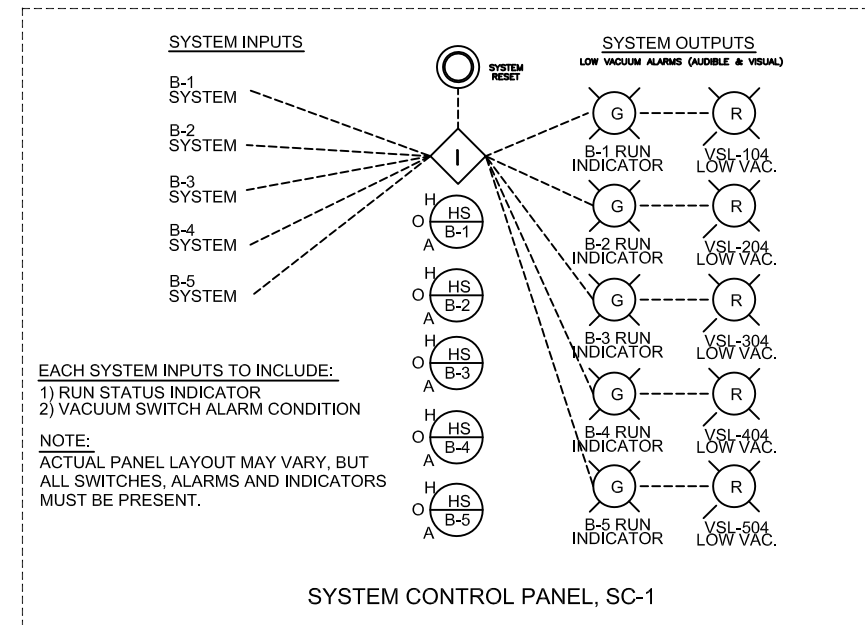
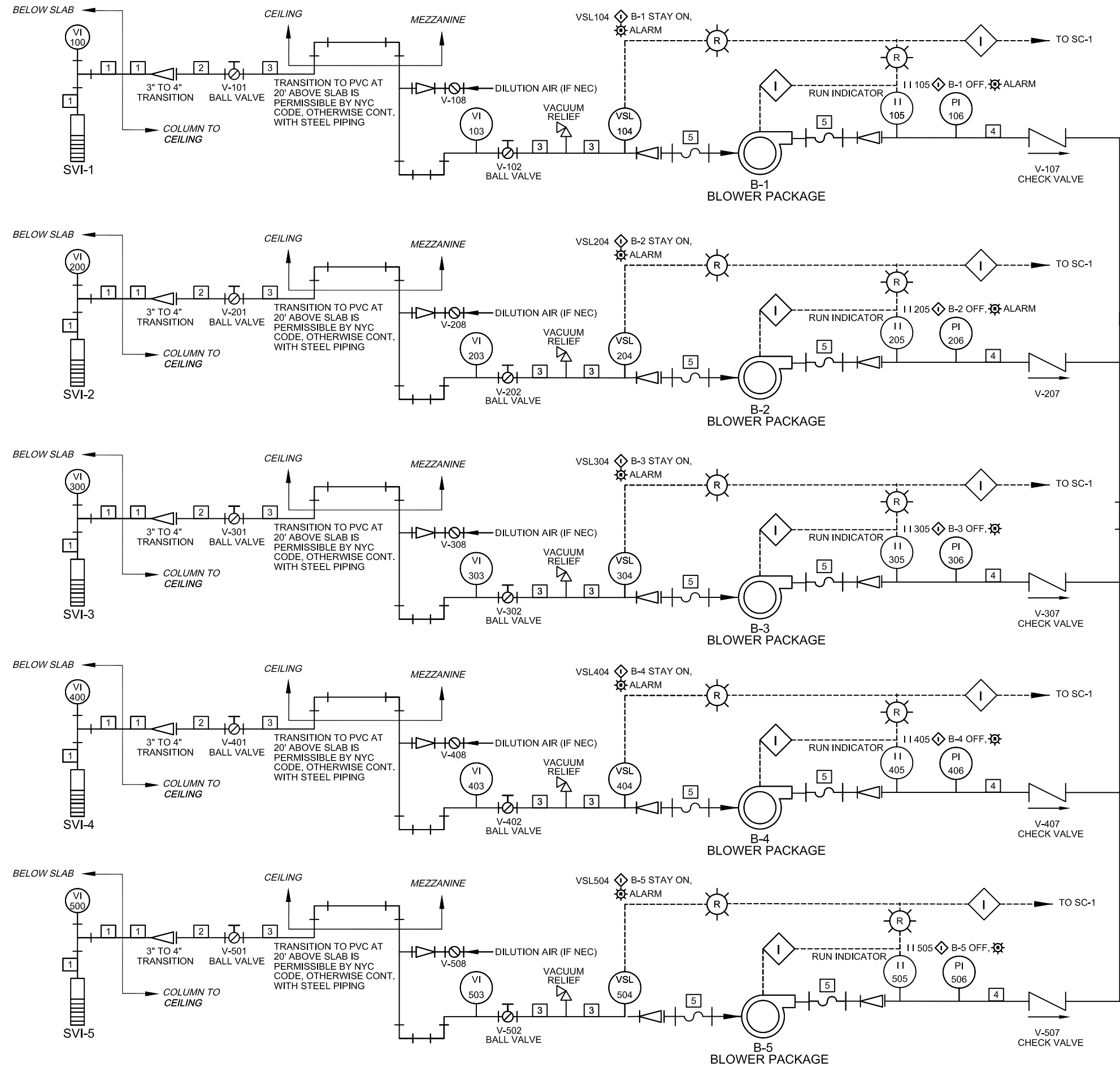
REV. NO.:
1

FIGURE:
5

ROOFING PLAN - NEW SVI COMPONENTS

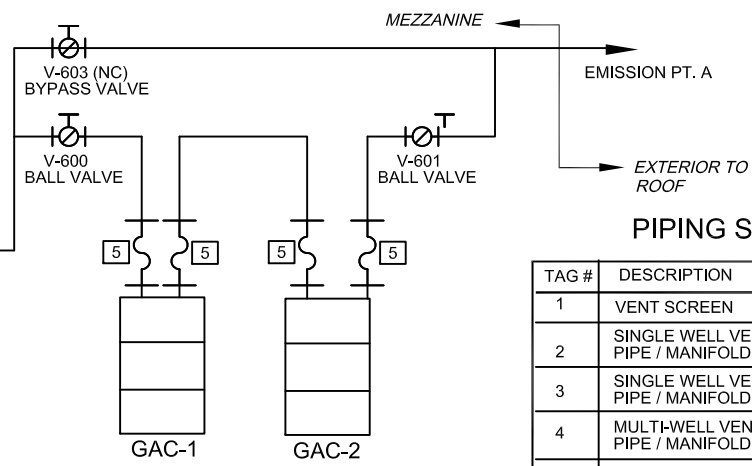


REVISION 1:
1. RELOCATED BLOWERS B-1 THROUGH B-5 TO 2ND FLOOR MEZZANINE.
2. ELIMINATED ALL ROOF PENETRATIONS AND REMOVED ALL EQUIPMENT FROM ROOF.
3. ADDED EXTERIOR WALL PENETRATION AND PIPING ALONG LOCUST AVE.
4. REFERENCED NYC BUILDING CODE REQ.



EACH SYSTEM INPUTS TO INCLUDE:
1) RUN STATUS INDICATOR
2) VACUUM SWITCH ALARM CONDITION

NOTE:
ACTUAL PANEL LAYOUT MAY VARY, BUT ALL SWITCHES, ALARMS AND INDICATORS MUST BE PRESENT.



PIPING SCHEDULE			
TAG #	DESCRIPTION	DIA	MATL
1	VENT SCREEN	3"	S.S. WELL
2	SINGLE WELL VENT PIPE / MANIFOLDS	4"	SS
3	SINGLE WELL VENT PIPE / MANIFOLDS	4"	SS / PVC
4	MULTI-WELL VENT PIPE / MANIFOLDS	6"	SS / PVC
5	FLEX HOSE	VARIES	VARIES

EQUIPMENT SCHEDULE				
TAG #	DESCRIPTION	MFR.	MODEL	COMMENTS / NOTES
B1 - B5	SVI BLOWER (5 TOT.)	RADONAWAY	RP380	268 CFM @ 1.0"WC, 165 CFM @ 1.5" WC 35 CFM @ 2.0 IN H2O, 115VAC, SINGLE PH
VI	VACUUM INDICATOR	DWYER OR EQ.	2003	0 TO 3.0 IN. W.C., 0.1 INCREMENTS
PI	PRESSURE INDICAT.	DWYER OR EQ.	SGD-D0222N-PY	0 TO 15 PSI, GLYCERIN FILLED
GAC1,2	VAP. PHASE CARBON	CARBTRON	VAPOR DRUM	APPROX 55 GAL DRUM, OR EQUAL

IMPORTANT ELECTRICAL NOTE:

ALL ELECTRICAL CONNECTIONS TO BE DESIGNED AND INSTALLED BY OTHERS IN ACCORDANCE WITH NYC ELECTRICAL AND BUILDING CODES. IT SHOULD BE ASSUMED THAT VAPORS FROM THE SUBSURFACE MAY BE EXPLOSIVE AND AS SUCH EXPLOSION PROOF MATERIALS AND ELECTRICAL CONNECTIONS ARE RECOMMENDED




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PIPING & INSTRUMENTATION DIAGRAM & CONTROLS


LOCATION:	295 LOCUST AVE. BRONX, NEW YORK	DESIGN:	DJS
PROJECT NO / FILE SUSDEV1201.01 SHT 6 - P&ID	DRAWING DATE: 03/11/12	REV. NO.: 1	FIGURE: 6


VALVE AND PIPING SYMBOLS


 GLOBE VALVE


 GATE VALVE


 BUTTERFLY VALVE


 CHECK VALVE


 PLUG VALVE


 3-WAY VALVE


 ANGLE VALVE


 **RELIEF OR SAFETY VALVE**

 DIAPHRAGM VALVE

 BALL VALVE

 GLOBE VALVE
SELF-CONTAINED PRESSURE
REGULATING VALVE W/RELIEF

 KNIFE GATE VALVE

 BACKFLOW PREVENTER

NO


NORMALLY OPEN


NC


NORMALLY CLOSED


SP


SAMPLE PORT


 FLEXIBLE HOSE


 BASKET TYPE STRAINER


 Y-TYPE STRAINER


 DUPLEX STRAINER


 SLEEVE COUPLING (SC)


 FLOOR DRAIN


 EQUIPMENT DRAIN


 CLEANOUT (CO)


 REMOVABLE PLUG


 REMOVABLE CAP


 BLIND FLANGE


 EXHAUST TO ATMOSPHERE (INSIDE)


 EXHAUST TO ATMOSPHERE (OUTSIDE)

 REDUCER


 UNION


 QUICK DISCONNECT COUPLING


 GAUGE SEAL


 DAMPER


VALVE OPERATOR SYMBOLS


 SOLENOID

 DIAPHRAGM WITH POSITIONER


 MOTOR, ELECTRIC


 HANDWHEEL OR LEVER


 DIAPHRAGM


 CHAINWHEEL


PRIMARY ELEMENT SYMBOLS - FLOW


 ORIFICE PLATE


 FLUME


 PITOT TUBE


 WEIR


 AVERAGING PITOT
TUBE

 TURBINE OR PROPELLOR
TYPE METER


 VENTURI OR
FLOW TUBE


 MAGNETIC FLOW METER


 TOTALIZING
FLOWMETER


 ROTAMETER


EQUIPMENT SYMBOLS

 SUBMERSIBLE PUMP

 PUMP

 PNEUMATIC DIAPHRAGM
PUMP


 BLOWER


 AIR COMPRESSOR


GENERAL INSTRUMENT SYMBOLS


ONE VARIABLE


TWO VARIABLES











LOCALLY MOUNTED


PANEL MOUNTED

REAR-OF-PANEL MOUNTED


INTERLOCK

PURGE


LINE SYMBOLS




PROCESS PIPES OR CHANNELS




CONNECTION TO PROCESS, MECHANICAL
LINK OR INSTRUMENT SUPPLY




PNEUMATIC SIGNAL



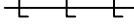
ELECTRIC SIGNAL



CAPILLARY TUBING (FILLED SYSTEM)



HYDRAULIC SIGNAL



ELECTROMAGNETIC OR SONIC SIGNAL
NO WIRING OR TUBING

PROCESS LINE ABBREVIATIONS

AIR

AIR, ATMOSPHERIC PRESSURE

BW

BACKWASH

CA

COMPRESSED AIR

CGW

CONTAMINATED GROUNDWATER

D

DRAIN

EFF

EFFLUENT

EXH

EXHAUST

GW

GROUNDWATER

NPW

NON-POTABLE WATER

P

PRODUCT

PW

POTABLE WATER

S

SANITARY

SL

SLUDGE

SP

SAMPLE PORT

SS

STORM SEWER

TF

TOTAL FLUIDS

V

VENT

VAP

VAPOR

PIPING MATERIAL IDENTIFICATION

CPVC

CHLORINATED POLYVINYL CHLORIDE

CSP

CARBON STEEL PIPE

COP

COPPER

CMP

CORRUGATED METAL PIPE

CI

CAST IRON PIPE

DIP

DUCTILE IRON PIPE

GAL

GALVANIZED STEEL PIPE

PE

POLYETHYLENE PIPE

PP

POLYPROPYLENE PIPE

PVC

POLYVINYL CHLORIDE PIPE

RCP

REINFORCED CONCRETE PIPE

RUB

RUBBER HOSE

SS

STAINLESS STEEL PIPE

VCP

VITRIFIED CLAY PIPE

PROCESS PIPING IDENTIFICATION

PROCESS PIPE

PIPE DIAMETER (INCHES)

2"


XXX-YY-Z

INSULATION CLASS

PIPING DESIGN TABLE NUMBER

PROCESS LINE ABBREVIATION

INSTRUMENT IDENTIFICATION

 FIT-100A

XXX-YY-Z

SUFFIX (NOT NORMALLY USED)

LOOP NUMBER

SUCCEEDING LETTERS

FIRST LETTER

DO

DISSOLVED OXYGEN

FC

FAIL CLOSED

FI

FAIL INDETERMINATE

FL

FAIL LOCKED

FO

FAIL OPEN

HOA

HAND-OFF-AUTOMATIC

I/I

CURRENT-TO-CURRENT

I/P

CURRENT-TO-PNEUMATIC

LEL

LOWER EXPLOSIVE LIMIT

LR

LOCAL-REMOTE

OC

OPEN-CLOSE

OO

ON-OFF (MAINTAINED)

ORP

OXIDATION REDUCTION POTENTIAL

OSC

OPEN-STOP-CLOSE (MOMENTARY)

SS

START-STOP (MOMENTARY)

>

HIGH SELECT

<

LOW SELECT

√

SQUARE ROOT

Σ

ADD OR TOTALIZE

PIPING & INSTRUMENTATION
DIAGRAM LEGEND

LOCATION:

STREET ADDRESS
CITY, STATE

DESIGN:

DJS

PROJECT NO / FILE
SUSDEV1201.01
SHT 6 - P&ID LEGEND

DRAWING DATE:

02/20/12

REV. NO.:

FIGURE:

7

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ATTACHMENT I

**SOIL VAPOR SAMPLING LABORATORY
ANALYTICAL DATA**



ANALYTICAL REPORT

Lab Number:	L1817756
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Joe Good
Phone:	(212) 479-5448
Project Name:	295 LOCUST AVE.
Project Number:	170312501
Report Date:	05/24/18

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

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



Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1817756-01	IA05_051518	AIR	BRONX, NY	05/15/18 13:24	05/15/18
L1817756-02	SVMF05_051518	SOIL_VAPOR	BRONX, NY	05/15/18 12:58	05/15/18
L1817756-03	IA02_051518	AIR	BRONX, NY	05/15/18 13:27	05/15/18
L1817756-04	SVMF02_051518	SOIL_VAPOR	BRONX, NY	05/15/18 13:26	05/15/18
L1817756-05	AA01_051518	AIR	BRONX, NY	05/15/18 13:32	05/15/18
L1817756-06	SVMF04_051518	SOIL_VAPOR	BRONX, NY	05/15/18 13:30	05/15/18
L1817756-07	IA04_051518	AIR	BRONX, NY	05/15/18 13:31	05/15/18
L1817756-08	UNUSED CAN #519	AIR	BRONX, NY		05/15/18
L1817756-09	UNUSED CAN #327	AIR	BRONX, NY		05/15/18

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

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: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 15, 2018. The canister certification results are provided as an addendum.

L1817756-01, -03 and -05 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1817756-02 and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

The WG1118832-3 LCS recovery for benzyl chloride (137%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

Sample Receipt

The samples designated SVMF04_051518 (L1817756-06) and IA04_051518 (L1817756-07) were cancelled by the client.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 05/24/18

AIR

Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-01

Client ID: IA05_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:24

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 21:22

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.411	0.200	--	2.03	0.989	--		1
Chloromethane	0.622	0.200	--	1.28	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	228	5.00	--	430	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	26.4	1.00	--	62.7	2.38	--		1
Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--		1
iso-Propyl Alcohol	12.3	0.500	--	30.2	1.23	--		1
tert-Butyl Alcohol	1.27	0.500	--	3.85	1.52	--		1
Methylene chloride	0.872	0.500	--	3.03	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.64	0.500	--	4.84	1.47	--		1
Ethyl Acetate	1.44	0.500	--	5.19	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-01

Client ID: IA05_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:24

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.914	0.200	--	3.22	0.705	--		1
Benzene	0.433	0.200	--	1.38	0.639	--		1
Cyclohexane	0.649	0.200	--	2.23	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.330	0.200	--	1.54	0.934	--		1
Heptane	0.947	0.200	--	3.88	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.20	0.500	--	4.92	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.98	0.200	--	15.0	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.732	0.200	--	3.18	0.869	--		1
p/m-Xylene	2.23	0.400	--	9.69	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.222	0.200	--	0.945	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.746	0.200	--	3.24	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-01

Date Collected: 05/15/18 13:24

Client ID: IA05_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.539	0.200	--	2.65	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	102		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-01

Client ID: IA05_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:24

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 21:22

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Trichloroethene	0.266	0.020	--	1.43	0.107	--		1
Tetrachloroethene	0.125	0.020	--	0.848	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	103		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-02 D

Client ID: SVMF05_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 12:58

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 05/24/18 00:33

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	ND	0.667	--	ND	1.76	--		3.333
Ethyl Alcohol	1150	16.7	--	2170	31.5	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	42.3	3.33	--	100	7.91	--		3.333
Trichlorofluoromethane	5.41	0.667	--	30.4	3.75	--		3.333
iso-Propyl Alcohol	18.1	1.67	--	44.5	4.10	--		3.333
1,1-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
tert-Butyl Alcohol	4.16	1.67	--	12.6	5.06	--		3.333
Methylene chloride	ND	1.67	--	ND	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	ND	0.667	--	ND	2.08	--		3.333
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	ND	1.67	--	ND	4.93	--		3.333
cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-02 D

Date Collected: 05/15/18 12:58

Client ID: SVMF05_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333
Chloroform	ND	0.667	--	ND	3.26	--		3.333
Tetrahydrofuran	ND	1.67	--	ND	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	ND	0.667	--	ND	2.35	--		3.333
1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Benzene	ND	0.667	--	ND	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	ND	0.667	--	ND	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	0.846	0.667	--	4.55	3.58	--		3.333
2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--		3.333
Heptane	ND	0.667	--	ND	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	2.37	0.667	--	8.93	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	10.2	0.667	--	69.2	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-02 D

Date Collected: 05/15/18 12:58

Client ID: SVMF05_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.93	1.33	--	8.38	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	ND	0.667	--	ND	2.84	--		3.333
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-03

Client ID: IA02_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:27

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 22:01

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.411	0.200	--	2.03	0.989	--		1
Chloromethane	0.571	0.200	--	1.18	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	195	5.00	--	367	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	22.4	1.00	--	53.2	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
iso-Propyl Alcohol	10.3	0.500	--	25.3	1.23	--		1
tert-Butyl Alcohol	1.08	0.500	--	3.27	1.52	--		1
Methylene chloride	1.57	0.500	--	5.45	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.67	0.500	--	4.93	1.47	--		1
Ethyl Acetate	1.13	0.500	--	4.07	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-03

Client ID: IA02_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:27

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.752	0.200	--	2.65	0.705	--		1
Benzene	0.344	0.200	--	1.10	0.639	--		1
Cyclohexane	0.512	0.200	--	1.76	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.286	0.200	--	1.34	0.934	--		1
Heptane	0.739	0.200	--	3.03	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.02	0.500	--	4.18	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.10	0.200	--	11.7	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.565	0.200	--	2.45	0.869	--		1
p/m-Xylene	1.76	0.400	--	7.64	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.577	0.200	--	2.51	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-03

Date Collected: 05/15/18 13:27

Client ID: IA02_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.360	0.200	--	1.77	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	109		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-03

Client ID: IA02_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:27

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 22:01

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.060	0.020	--	0.377	0.126	--		1
Trichloroethene	0.107	0.020	--	0.575	0.107	--		1
Tetrachloroethene	0.167	0.020	--	1.13	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	109		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-04 D

Client ID: SVMF02_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:26

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 05/24/18 01:09

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	ND	0.667	--	ND	1.76	--		3.333
Ethyl Alcohol	1120	16.7	--	2110	31.5	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	43.9	3.33	--	104	7.91	--		3.333
Trichlorofluoromethane	5.64	0.667	--	31.7	3.75	--		3.333
iso-Propyl Alcohol	18.3	1.67	--	45.0	4.10	--		3.333
1,1-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
tert-Butyl Alcohol	4.25	1.67	--	12.9	5.06	--		3.333
Methylene chloride	ND	1.67	--	ND	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	1.31	0.667	--	4.08	2.08	--		3.333
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	4.34	0.667	--	17.2	2.64	--		3.333
1,1-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	1.83	1.67	--	5.40	4.93	--		3.333
cis-1,2-Dichloroethene	1.75	0.667	--	6.94	2.64	--		3.333



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-04 D

Date Collected: 05/15/18 13:26

Client ID: SVMF02_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333
Chloroform	ND	0.667	--	ND	3.26	--		3.333
Tetrahydrofuran	ND	1.67	--	ND	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	0.690	0.667	--	2.43	2.35	--		3.333
1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Benzene	ND	0.667	--	ND	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	ND	0.667	--	ND	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	0.670	0.667	--	3.60	3.58	--		3.333
2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--		3.333
Heptane	ND	0.667	--	ND	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	2.55	0.667	--	9.61	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	7.82	0.667	--	53.0	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-04 D

Date Collected: 05/15/18 13:26

Client ID: SVMF02_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	1.33	--	ND	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	ND	0.667	--	ND	2.84	--		3.333
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	106		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-05

Client ID: AA01_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:32

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 19:27

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.445	0.200	--	2.20	0.989	--		1
Chloromethane	0.642	0.200	--	1.33	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	36.3	5.00	--	68.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.76	1.00	--	18.4	2.38	--		1
Trichlorofluoromethane	0.209	0.200	--	1.17	1.12	--		1
iso-Propyl Alcohol	1.76	0.500	--	4.33	1.23	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.552	0.500	--	1.92	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.650	0.500	--	1.92	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-05

Client ID: AA01_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:32

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.05	0.200	--	3.70	0.705	--		1
Benzene	0.527	0.200	--	1.68	0.639	--		1
Cyclohexane	0.659	0.200	--	2.27	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.454	0.200	--	2.12	0.934	--		1
Heptane	0.827	0.200	--	3.39	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.53	0.200	--	9.53	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.402	0.200	--	1.75	0.869	--		1
p/m-Xylene	1.06	0.400	--	4.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.410	0.200	--	1.78	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-05

Date Collected: 05/15/18 13:32

Client ID: AA01_051518

Date Received: 05/15/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.401	0.200	--	1.97	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	98		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1817756**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817756-05

Client ID: AA01_051518

Sample Location: BRONX, NY

Date Collected: 05/15/18 13:32

Date Received: 05/15/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 19:27

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.115	0.020	--	0.780	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 17:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05 Batch: WG1118833-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 17:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05 Batch: WG1118833-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 17:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05 Batch: WG1118833-4								
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18

Method Blank Analysis

Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/23/18 17:24

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03,05 Batch: WG1118833-4								
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
Chlorodifluoromethane	91		-		70-130	-		
Propylene	126		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	100		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	89		-		70-130	-		
Vinyl chloride	99		-		70-130	-		
1,3-Butadiene	103		-		70-130	-		
Butane	100		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	96		-		70-130	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	104		-		70-130	-		
Acrolein	90		-		70-130	-		
Acetone	87		-		70-130	-		
Acetonitrile	96		-		70-130	-		
Trichlorofluoromethane	97		-		70-130	-		
iso-Propyl Alcohol	88		-		70-130	-		
Acrylonitrile	92		-		70-130	-		
Pentane	96		-		70-130	-		
Ethyl ether	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
1,1-Dichloroethene	97		-		70-130	-		
tert-Butyl Alcohol	90		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
Vinyl acetate	97		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		
Ethyl Acetate	112		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	112		-		70-130	-		
2,2-Dichloropropane	90		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	101		-		70-130	-		
Isopropyl Ether	95		-		70-130	-		
Ethyl-Tert-Butyl-Ether	92		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	93		-		70-130	-		
Benzene	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
Carbon tetrachloride	95		-		70-130	-		
Cyclohexane	101		-		70-130	-		
Tertiary-Amyl Methyl Ether	89		-		70-130	-		
Dibromomethane	89		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Methyl Methacrylate	85		-		70-130	-		
Heptane	104		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	88		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Toluene	110		-		70-130	-		
1,3-Dichloropropane	97		-		70-130	-		
2-Hexanone	118		-		70-130	-		
Dibromochloromethane	118		-		70-130	-		
1,2-Dibromoethane	108		-		70-130	-		
Butyl Acetate	109		-		70-130	-		
Octane	104		-		70-130	-		
Tetrachloroethene	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
1,1,1,2-Tetrachloroethane	104		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	116		-		70-130	-		
p/m-Xylene	113		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	114		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	116		-		70-130	-		
1,2,3-Trichloropropane	100		-		70-130	-		
Nonane (C9)	106		-		70-130	-		
Isopropylbenzene	111		-		70-130	-		
Bromobenzene	103		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	109		-		70-130	-		
p-Chlorotoluene	105		-		70-130	-		
4-Ethyltoluene	122		-		70-130	-		
1,3,5-Trimethylbenzene	122		-		70-130	-		
tert-Butylbenzene	115		-		70-130	-		
1,2,4-Trimethylbenzene	124		-		70-130	-		
Decane (C10)	113		-		70-130	-		
Benzyl chloride	137	Q	-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
sec-Butylbenzene	112		-		70-130	-		
p-Isopropyltoluene	110		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
n-Butylbenzene	120		-		70-130	-		
1,2-Dibromo-3-chloropropane	111		-		70-130	-		
Undecane	116		-		70-130	-		
Dodecane (C12)	119		-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Naphthalene	115		-		70-130	-		
1,2,3-Trichlorobenzene	114		-		70-130	-		
Hexachlorobutadiene	118		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05 Batch: WG1118833-3								
Propylene	113		-		70-130	-		25
Dichlorodifluoromethane	91		-		70-130	-		25
Chloromethane	95		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	95		-		70-130	-		25
Vinyl chloride	92		-		70-130	-		25
1,3-Butadiene	97		-		70-130	-		25
Bromomethane	95		-		70-130	-		25
Chloroethane	103		-		70-130	-		25
Ethyl Alcohol	90		-		70-130	-		25
Vinyl bromide	101		-		70-130	-		25
Acetone	86		-		70-130	-		25
Trichlorofluoromethane	92		-		70-130	-		25
iso-Propyl Alcohol	85		-		70-130	-		25
Acrylonitrile	85		-		70-130	-		25
1,1-Dichloroethene	88		-		70-130	-		25
tert-Butyl Alcohol ¹	75		-		70-130	-		25
Methylene chloride	97		-		70-130	-		25
3-Chloropropene	113		-		70-130	-		25
Carbon disulfide	97		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		-		70-130	-		25
trans-1,2-Dichloroethene	93		-		70-130	-		25
1,1-Dichloroethane	93		-		70-130	-		25
Methyl tert butyl ether	103		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05 Batch: WG1118833-3								
Vinyl acetate	121		-		70-130	-		25
2-Butanone	102		-		70-130	-		25
cis-1,2-Dichloroethene	97		-		70-130	-		25
Ethyl Acetate	114		-		70-130	-		25
Chloroform	96		-		70-130	-		25
Tetrahydrofuran	111		-		70-130	-		25
1,2-Dichloroethane	91		-		70-130	-		25
n-Hexane	100		-		70-130	-		25
1,1,1-Trichloroethane	92		-		70-130	-		25
Benzene	91		-		70-130	-		25
Carbon tetrachloride	92		-		70-130	-		25
Cyclohexane	101		-		70-130	-		25
Dibromomethane ¹	79		-		70-130	-		25
1,2-Dichloropropane	94		-		70-130	-		25
Bromodichloromethane	96		-		70-130	-		25
1,4-Dioxane	104		-		70-130	-		25
Trichloroethene	92		-		70-130	-		25
2,2,4-Trimethylpentane	104		-		70-130	-		25
cis-1,3-Dichloropropene	88		-		70-130	-		25
4-Methyl-2-pentanone	113		-		70-130	-		25
trans-1,3-Dichloropropene	101		-		70-130	-		25
1,1,2-Trichloroethane	96		-		70-130	-		25
Toluene	103		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05 Batch: WG1118833-3								
2-Hexanone	119		-		70-130	-		25
Dibromochloromethane	114		-		70-130	-		25
1,2-Dibromoethane	104		-		70-130	-		25
Tetrachloroethene	102		-		70-130	-		25
1,1,1,2-Tetrachloroethane	96		-		70-130	-		25
Chlorobenzene	101		-		70-130	-		25
Ethylbenzene	112		-		70-130	-		25
p/m-Xylene	112		-		70-130	-		25
Bromoform	119		-		70-130	-		25
Styrene	117		-		70-130	-		25
1,1,2,2-Tetrachloroethane	110		-		70-130	-		25
o-Xylene	114		-		70-130	-		25
1,2,3-Trichloropropane ¹	100		-		70-130	-		25
Isopropylbenzene	111		-		70-130	-		25
Bromobenzene ¹	99		-		70-130	-		25
4-Ethyltoluene	130		-		70-130	-		25
1,3,5-Trimethylbenzene	121		-		70-130	-		25
1,2,4-Trimethylbenzene	130		-		70-130	-		25
Benzyl chloride	141	Q	-		70-130	-		25
1,3-Dichlorobenzene	124		-		70-130	-		25
1,4-Dichlorobenzene	129		-		70-130	-		25
sec-Butylbenzene	117		-		70-130	-		25
p-Isopropyltoluene	110		-		70-130	-		25

Lab Control Sample Analysis Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05 Batch: WG1118833-3								
1,2-Dichlorobenzene	122		-		70-130	-		25
n-Butylbenzene	125		-		70-130	-		25
1,2,4-Trichlorobenzene	128		-		70-130	-		25
Naphthalene	123		-		70-130	-		25
1,2,3-Trichlorobenzene	119		-		70-130	-		25
Hexachlorobutadiene	115		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: IA02_051518						
Dichlorodifluoromethane	0.411	0.412	ppbV	0		25
Chloromethane	0.571	0.557	ppbV	2		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	195	195	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	22.4	22.0	ppbV	2		25
Trichlorofluoromethane	0.200	0.210	ppbV	5		25
iso-Propyl Alcohol	10.3	10.4	ppbV	1		25
tert-Butyl Alcohol	1.08	1.06	ppbV	2		25
Methylene chloride	1.57	1.58	ppbV	1		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.67	1.40	ppbV	18		25
Ethyl Acetate	1.13	1.10	ppbV	3		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: IA02_051518						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.752	0.738	ppbV	2		25
Benzene	0.344	0.344	ppbV	0		25
Cyclohexane	0.512	0.503	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.286	0.279	ppbV	2		25
Heptane	0.739	0.733	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	1.02	1.04	ppbV	2		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	3.10	3.15	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.565	0.569	ppbV	1		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1817756

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: IA02_051518						
p/m-Xylene	1.76	1.79	ppbV	2		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.577	0.591	ppbV	2		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.360	0.375	ppbV	4		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1817756

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03,05 QC Batch ID: WG1118833-5 QC Sample: L1817756-03 Client ID: IA02_051518						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.060	0.066	ppbV	10		25
Trichloroethene	0.107	0.104	ppbV	3		25
Tetrachloroethene	0.167	0.165	ppbV	1		25

Project Name: 295 LOCUST AVE.

Serial_No:05241813:55
Lab Number: L1817756

Project Number: 170312501

Report Date: 05/24/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1817756-01	IA05_051518	0733	Flow 4	05/15/18	265663		-	-	-	Pass	18.0	19.7	9
L1817756-01	IA05_051518	125	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-4.5	-	-	-	-
L1817756-02	SVMF05_051518	0752	Flow 5	05/15/18	265663		-	-	-	Pass	18.0	24.5	31
L1817756-02	SVMF05_051518	1719	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-4.5	-	-	-	-
L1817756-03	IA02_051518	0622	Flow 3	05/15/18	265663		-	-	-	Pass	18.0	18.4	2
L1817756-03	IA02_051518	424	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-5.8	-	-	-	-
L1817756-04	SVMF02_051518	0490	Flow 3	05/15/18	265663		-	-	-	Pass	18.0	20.6	13
L1817756-04	SVMF02_051518	340	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-3.6	-	-	-	-
L1817756-05	AA01_051518	0625	Flow 3	05/15/18	265663		-	-	-	Pass	17.9	17.4	3
L1817756-05	AA01_051518	238	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-7.3	-	-	-	-
L1817756-06	SVMF04_051518	0931	Flow 3	05/15/18	265663		-	-	-	Pass	18.0	17.0	6
L1817756-06	SVMF04_051518	554	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-6.4	-	-	-	-
L1817756-07	IA04_051518	0454	Flow 3	05/15/18	265663		-	-	-	Pass	17.9	18.3	2
L1817756-07	IA04_051518	414	2.7L Can	05/15/18	265663	L1816869-01	Pass	-30.0	-5.1	-	-	-	-
L1817756-08	UNUSED CAN #519	0809	Flow 4	05/15/18	265663		-	-	-	Pass	18.0	17.9	1

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Serial_No:05241813:55
Lab Number: L1817756
Report Date: 05/24/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1817756-09	UNUSED CAN #327	0794	Flow 4	05/15/18	265663		-	-	-	Pass	17.8	18.4	3



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/10/18 18:05
Analyst: RY

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



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
 Client ID: CAN 529 SHELF 2
 Sample Location:

Date Collected: 05/09/18 16:00
 Date Received: 05/10/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	77		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	78		60-140

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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/10/18 18:05
Analyst: RY

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



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1816869
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1816869-01
Client ID: CAN 529 SHELF 2
Sample Location:

Date Collected: 05/09/18 16:00
Date Received: 05/10/18
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	82		60-140

Project Name: 295 LOCUST AVE.**Lab Number:** L1817756**Project Number:** 170312501**Report Date:** 05/24/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

N/A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817756-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1817756-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817756-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1817756-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817756-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1817756-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CANCELLED()
L1817756-07A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CANCELLED()
L1817756-08A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()
L1817756-09A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

Data Qualifiers

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

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1817756
Report Date: 05/24/18

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **11**

Published Date: 1/8/2018 4:15:49 PM

Page 1 of 1

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:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; 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, SM4500CI-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, **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, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Client Information

Client: Langan Engineering
Address: 360 W 31st St, 8th Fl
NEW YORK, NY 10001
Phone: (212) 479-5400

Fax: Emily Sneed
Email: ESNEAD@LANGAN.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: 295 Locust Ave
Project Location: 295 Locust Ave, Bronx, NY
Project #: 170312501
Project Manager: Joseph Good
ALPHA Quote #:

Turn-Around Time

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

Date Due:

Time:

Date Rec'd in Lab: 5/16/18

Report Information - Data Deliverables

☐ FAX☐ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L1817756

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
17756.01	1A05_051518	05/15/18	11:24	13:24	-30.00	-4.66	AA	TM	2.7				X	X				
.02	SVMF05_051518	05/15/18	11:25	12:58	-29.92	-4.68	SV	TM	2.7				X					
.03	1A02_051518	05/15/18	11:27	13:27	-30.01	-6.17	AA	TM	2.7				X	X				
.04	SVMF02_051518	05/15/18	11:28	13:26	-30.06	-3.99	SV	TM	2.7				X					
.05	AA01_051518	05/15/18	11:32	13:32	-29.70	-5.32	AA	TM	2.7				X	X				
.06	SVMF04_051518	05/15/18	11:30	13:30	-29.85	-6.46	SV	TM	2.7				X					
.07	1A04_051518	05/15/18	11:31	13:31	-29.61	-5.22	AA	TM	2.7				X	X				

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

CS CS

Relinquished By:

Date/Time

Received By:

Date/Time:

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



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 1

Revised Coc 5/15/18

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

Client Information

Client: Langan Engineering
Address: 360 W 31st St, 8th Fl
New York, NY 10001
Phone: (212) 479-5400
Fax: Emily Spaid
Email: ESNCAD@LANGAN.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: 295 LOCUST AVE
Project Location: 295 LOCUST AVE, BRONX NY
Project #: 170312501
Project Manager: Joseph Good
ALPHA Quote #:

Turn-Around Time

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

Date Due:

Time:

Date Rec'd in Lab:

5/16/18

Report Information - Data Deliverables

☐ FAX☐ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☐ Additional Deliverables:

ASPB

Report to: (if different than Project Manager)

ALPHA Job #:

L1817756

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

TO-15
TO-15 SIM
APM Subject Air parameters N/A
Fixed Gases
Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APM	Fixed Gas	Sulfides & Mercaptans	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
17756.01	1A05_051518	05/15/18	11:24	13:24	-30.00	-4.66	AA	TM	27	125	0733	X	X					
.02	SVMF05_051518	05/15/18	11:25	12:58	-29.92	-4.68	SV	TM	27	1719	0752	X						
.03	1A02_051518	05/15/18	11:27	13:27	-30.01	-6.17	AA	TM	27	424	0622	X	X					
.04	SVMF02_051518	05/15/18	11:28	13:26	-30.06	-3.99	SV	TM	27	340	0490	X						
.05	AA01_051518	05/15/18	11:32	13:32	-29.70	-5.32	AA	TM	27	238	0625	X	X					
.06	SVMF04_051518	05/15/18	11:30	13:30	-29.85	-6.46	SV	TM	27	554	0931	X						
.07	1A04_051518	05/15/18	11:31	13:31	-29.61	-5.22	AA	TM	27	414	0454	X	X					

TM
05/15/18

*SAMPLE MATRIX CODES

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

Container Type

CSG

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

Relinquished By:

Taylor Morgan

Date/Time

05/15/18 14:00

Received By:

B. Jones

Date/Time

5/15/18 14:00



ANALYTICAL REPORT

Lab Number:	L1819299
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Joe Good
Phone:	(212) 479-5448
Project Name:	295 LOCUST AVE.
Project Number:	170312501
Report Date:	06/01/18

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

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

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



Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1819299-01	SVMF-04_052418	SOIL_VAPOR	BRONX, NY	05/24/18 15:45	05/24/18
L1819299-02	IA-04_052418	AIR	BRONX, NY	05/24/18 15:48	05/24/18
L1819299-03	UNUSED CAN #376	SOIL_VAPOR	BRONX, NY		05/24/18

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

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: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 24, 2018. The canister certification results are provided as an addendum.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 06/01/18

AIR

Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1819299**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-01
 Client ID: SVMF-04_052418
 Sample Location: BRONX, NY

Date Collected: 05/24/18 15:45
 Date Received: 05/24/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/31/18 18:17
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.431	0.200	--	2.13	0.989	--		1
Chloromethane	0.235	0.200	--	0.485	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.292	0.200	--	0.746	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	448	5.00	--	844	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	36.1	1.00	--	85.8	2.38	--		1
Trichlorofluoromethane	0.850	0.200	--	4.78	1.12	--		1
iso-Propyl Alcohol	17.7	0.500	--	43.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	1.13	0.500	--	3.43	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	2.76	0.200	--	10.9	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.36	0.500	--	4.01	1.47	--		1
cis-1,2-Dichloroethene	11.7	0.200	--	46.4	0.793	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-01

Date Collected: 05/24/18 15:45

Client ID: SVMF-04_052418

Date Received: 05/24/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.70	0.500	--	6.13	1.80	--		1
Chloroform	0.754	0.200	--	3.68	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.309	0.200	--	1.09	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.205	0.200	--	0.706	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.46	0.200	--	7.85	1.07	--		1
2,2,4-Trimethylpentane	0.200	0.200	--	0.934	0.934	--		1
Heptane	0.667	0.200	--	2.73	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.62	0.200	--	9.87	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.74	0.200	--	38.9	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.714	0.200	--	3.10	0.869	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-01

Client ID: SVMF-04_052418

Sample Location: BRONX, NY

Date Collected: 05/24/18 15:45

Date Received: 05/24/18

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.87	0.400	--	12.5	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.730	0.200	--	3.17	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.394	0.200	--	1.94	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

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



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1819299**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-02

Client ID: IA-04_052418

Sample Location: BRONX, NY

Date Collected: 05/24/18 15:48

Date Received: 05/24/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 17:38

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.438	0.200	--	2.17	0.989	--		1
Chloromethane	0.535	0.200	--	1.10	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	399	5.00	--	752	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.9	1.00	--	52.0	2.38	--		1
Trichlorofluoromethane	0.221	0.200	--	1.24	1.12	--		1
iso-Propyl Alcohol	12.3	0.500	--	30.2	1.23	--		1
tert-Butyl Alcohol	0.683	0.500	--	2.07	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.975	0.500	--	2.88	1.47	--		1
Ethyl Acetate	1.18	0.500	--	4.25	1.80	--		1
Chloroform	0.206	0.200	--	1.01	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-02

Date Collected: 05/24/18 15:48

Client ID: IA-04_052418

Date Received: 05/24/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.307	0.200	--	1.08	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.538	0.200	--	2.20	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.626	0.500	--	2.57	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.86	0.200	--	10.8	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.95	0.200	--	8.47	0.869	--		1
p/m-Xylene	7.98	0.400	--	34.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.18	0.200	--	9.47	0.869	--		1
4-Ethyltoluene	0.201	0.200	--	0.988	0.983	--		1
1,3,5-Trimethylbenzene	0.238	0.200	--	1.17	0.983	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-02

Date Collected: 05/24/18 15:48

Client ID: IA-04_052418

Date Received: 05/24/18

Sample Location: BRONX, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.742	0.200	--	3.65	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140



Project Name: 295 LOCUST AVE.**Project Number:** 170312501**Lab Number:** L1819299**Report Date:** 06/01/18**SAMPLE RESULTS**

Lab ID: L1819299-02

Client ID: IA-04_052418

Sample Location: BRONX, NY

Date Collected: 05/24/18 15:48

Date Received: 05/24/18

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/31/18 17:38

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.068	0.020	--	0.461	0.136	--		1

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



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 11:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121123-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 11:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121123-4								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 11:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121123-4								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 11:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121123-4								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/31/18 11:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121123-4								
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/31/18 11:54

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02 Batch: WG1121482-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/31/18 11:54

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02 Batch: WG1121482-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: 295 LOCUST AVE.

Lab Number: L1819299

Project Number: 170312501

Report Date: 06/01/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/31/18 11:54

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02 Batch: WG1121482-4								
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**Method Blank Analysis**
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/31/18 11:54

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 02 Batch: WG1121482-4								
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121123-3								
Chlorodifluoromethane	84		-		70-130	-		
Propylene	116		-		70-130	-		
Propane	77		-		70-130	-		
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	96		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	98		-		70-130	-		
Methanol	79		-		70-130	-		
Vinyl chloride	93		-		70-130	-		
1,3-Butadiene	95		-		70-130	-		
Butane	93		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	97		-		70-130	-		
Ethyl Alcohol	84		-		70-130	-		
Dichlorofluoromethane	93		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	83		-		70-130	-		
Acetone	83		-		70-130	-		
Acetonitrile	89		-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
iso-Propyl Alcohol	78		-		70-130	-		
Acrylonitrile	86		-		70-130	-		
Pentane	91		-		70-130	-		
Ethyl ether	78		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121123-3								
1,1-Dichloroethene	94		-		70-130	-		
tert-Butyl Alcohol	77		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	104		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
Vinyl acetate	116		-		70-130	-		
2-Butanone	100		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		
Ethyl Acetate	107		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	108		-		70-130	-		
2,2-Dichloropropane	90		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	98		-		70-130	-		
Isopropyl Ether	88		-		70-130	-		
Ethyl-Tert-Butyl-Ether	83		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
1,1-Dichloropropene	92		-		70-130	-		
Benzene	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121123-3								
Carbon tetrachloride	103		-		70-130	-		
Cyclohexane	97		-		70-130	-		
Tertiary-Amyl Methyl Ether	80		-		70-130	-		
Dibromomethane	89		-		70-130	-		
1,2-Dichloropropane	95		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	95		-		70-130	-		
2,2,4-Trimethylpentane	99		-		70-130	-		
Methyl Methacrylate	83		-		70-130	-		
Heptane	103		-		70-130	-		
cis-1,3-Dichloropropene	99		-		70-130	-		
4-Methyl-2-pentanone	102		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	97		-		70-130	-		
1,3-Dichloropropane	87		-		70-130	-		
2-Hexanone	102		-		70-130	-		
Dibromochloromethane	109		-		70-130	-		
1,2-Dibromoethane	97		-		70-130	-		
Butyl Acetate	92		-		70-130	-		
Octane	90		-		70-130	-		
Tetrachloroethene	93		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121123-3								
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	96		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	100		-		70-130	-		
Bromoform	110		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	102		-		70-130	-		
o-Xylene	104		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	95		-		70-130	-		
Isopropylbenzene	99		-		70-130	-		
Bromobenzene	90		-		70-130	-		
o-Chlorotoluene	94		-		70-130	-		
n-Propylbenzene	96		-		70-130	-		
p-Chlorotoluene	94		-		70-130	-		
4-Ethyltoluene	106		-		70-130	-		
1,3,5-Trimethylbenzene	107		-		70-130	-		
tert-Butylbenzene	101		-		70-130	-		
1,2,4-Trimethylbenzene	109		-		70-130	-		
Decane (C10)	98		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,3-Dichlorobenzene	102		-		70-130	-		
1,4-Dichlorobenzene	102		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121123-3								
sec-Butylbenzene	99		-		70-130	-		
p-Isopropyltoluene	93		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	98		-		70-130	-		
Undecane	99		-		70-130	-		
Dodecane (C12)	102		-		70-130	-		
1,2,4-Trichlorobenzene	102		-		70-130	-		
Naphthalene	97		-		70-130	-		
1,2,3-Trichlorobenzene	95		-		70-130	-		
Hexachlorobutadiene	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02 Batch: WG1121482-3								
Propylene	103		-		70-130	-		25
Dichlorodifluoromethane	89		-		70-130	-		25
Chloromethane	91		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	91		-		70-130	-		25
Vinyl chloride	87		-		70-130	-		25
1,3-Butadiene	92		-		70-130	-		25
Bromomethane	91		-		70-130	-		25
Chloroethane	95		-		70-130	-		25
Ethyl Alcohol	83		-		70-130	-		25
Vinyl bromide	97		-		70-130	-		25
Acetone	82		-		70-130	-		25
Trichlorofluoromethane	95		-		70-130	-		25
iso-Propyl Alcohol	76		-		70-130	-		25
Acrylonitrile	80		-		70-130	-		25
1,1-Dichloroethene	85		-		70-130	-		25
tert-Butyl Alcohol ¹	65	Q	-		70-130	-		25
Methylene chloride	95		-		70-130	-		25
3-Chloropropene	105		-		70-130	-		25
Carbon disulfide	93		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		-		70-130	-		25
trans-1,2-Dichloroethene	91		-		70-130	-		25
1,1-Dichloroethane	90		-		70-130	-		25
Methyl tert butyl ether	93		-		70-130	-		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02 Batch: WG1121482-3								
Vinyl acetate	90		-		70-130	-		25
2-Butanone	86		-		70-130	-		25
cis-1,2-Dichloroethene	94		-		70-130	-		25
Ethyl Acetate	106		-		70-130	-		25
Chloroform	97		-		70-130	-		25
Tetrahydrofuran	103		-		70-130	-		25
1,2-Dichloroethane	95		-		70-130	-		25
n-Hexane	97		-		70-130	-		25
1,1,1-Trichloroethane	98		-		70-130	-		25
Benzene	88		-		70-130	-		25
Carbon tetrachloride	100		-		70-130	-		25
Cyclohexane	96		-		70-130	-		25
Dibromomethane ¹	79		-		70-130	-		25
1,2-Dichloropropane	92		-		70-130	-		25
Bromodichloromethane	100		-		70-130	-		25
1,4-Dioxane	101		-		70-130	-		25
Trichloroethene	91		-		70-130	-		25
2,2,4-Trimethylpentane	99		-		70-130	-		25
cis-1,3-Dichloropropene	86		-		70-130	-		25
4-Methyl-2-pentanone	110		-		70-130	-		25
trans-1,3-Dichloropropene	97		-		70-130	-		25
1,1,2-Trichloroethane	95		-		70-130	-		25
Toluene	94		-		70-130	-		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02 Batch: WG1121482-3								
2-Hexanone	107		-		70-130	-		25
Dibromochloromethane	107		-		70-130	-		25
1,2-Dibromoethane	95		-		70-130	-		25
Tetrachloroethene	92		-		70-130	-		25
1,1,1,2-Tetrachloroethane	91		-		70-130	-		25
Chlorobenzene	92		-		70-130	-		25
Ethylbenzene	101		-		70-130	-		25
p/m-Xylene	103		-		70-130	-		25
Bromoform	110		-		70-130	-		25
Styrene	104		-		70-130	-		25
1,1,2,2-Tetrachloroethane	100		-		70-130	-		25
o-Xylene	106		-		70-130	-		25
1,2,3-Trichloropropane ¹	92		-		70-130	-		25
Isopropylbenzene	99		-		70-130	-		25
Bromobenzene ¹	90		-		70-130	-		25
4-Ethyltoluene	117		-		70-130	-		25
1,3,5-Trimethylbenzene	110		-		70-130	-		25
1,2,4-Trimethylbenzene	116		-		70-130	-		25
Benzyl chloride	122		-		70-130	-		25
1,3-Dichlorobenzene	113		-		70-130	-		25
1,4-Dichlorobenzene	115		-		70-130	-		25
sec-Butylbenzene	105		-		70-130	-		25
p-Isopropyltoluene	96		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02 Batch: WG1121482-3								
1,2-Dichlorobenzene	109		-		70-130	-		25
n-Butylbenzene	111		-		70-130	-		25
1,2,4-Trichlorobenzene	109		-		70-130	-		25
Naphthalene	105		-		70-130	-		25
1,2,3-Trichlorobenzene	103		-		70-130	-		25
Hexachlorobutadiene	103		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1121123-5 QC Sample: L1819843-02 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Lab Number: L1819299

Report Date: 06/01/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1121482-5 QC Sample: L1800006-03 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	0.050	0.041	ppbV	20		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	0.025	0.028	ppbV	11		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.039	0.043	ppbV	10		25

Project Name: 295 LOCUST AVE.

Project Number: 170312501

Serial_No: 06011815:26
Lab Number: L1819299

Report Date: 06/01/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1819299-01	SVMF-04_052418	01036	Flow 4	05/24/18	266325		-	-	-	Pass	17.9	18.1	1
L1819299-01	SVMF-04_052418	448	2.7L Can	05/24/18	266325	L1818007-01	Pass	-29.5	-5.9	-	-	-	-
L1819299-02	IA-04_052418	0403	Flow 3	05/24/18	266325		-	-	-	Pass	18.0	18.3	2
L1819299-02	IA-04_052418	373	2.7L Can	05/24/18	266325	L1818007-01	Pass	-29.5	-5.4	-	-	-	-

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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 05/17/18 20:04
Analyst: GJ

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



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
 Client ID: CAN 328 SHELF 14
 Sample Location:

Date Collected: 05/16/18 16:00
 Date Received: 05/17/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	78		60-140

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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/17/18 20:04
Analyst: GJ

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



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1818007
Report Date: 06/01/18

Air Canister Certification Results

Lab ID: L1818007-01
Client ID: CAN 328 SHELF 14
Sample Location:

Date Collected: 05/16/18 16:00
Date Received: 05/17/18
Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	80		60-140



Project Name: 295 LOCUST AVE.**Lab Number:** L1819299**Project Number:** 170312501**Report Date:** 06/01/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1819299-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1819299-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-SIM(30)
L1819299-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

Data Qualifiers

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

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 295 LOCUST AVE.
Project Number: 170312501

Lab Number: L1819299
Report Date: 06/01/18

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



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

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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:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; 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, SM4500CI-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, **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, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, 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, 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.

CHAIN OF CUSTODY

Client Information

Email: esnead@lancan.com

Project-Specific Target Compound List: ☐

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Turn-Around Time

Time:

Report to: (if different than Project Manager)

Res / Comm

ANALYSIS

All Columns Below Must Be Filled Out[illegible]

*SAMPLE MATRIX CODES

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

Container Type

Relinquished By

Date/Time

Received By:

Date/Time:

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