608 AND 610 EAST FORDHAM ROAD
BRONX, NEW YORK 10458
BLOCK 3078, LOT 16

PHASE II
ENVIRONMENTAL SITE ASSESSMENT
(ASTM 1903-19)

PREPARED FOR:

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PWGC Project Number: BLU2201

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TABLE OF CONTENTS

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FIGURES

TABLES

APPENDICES

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ACRONYM	DEFINITION
ASP	Analytical Services Protocol
ASTM	American Society for Testing and Materials
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CES	Coastal Environmental Solutions, Inc.
CFR	Code of Federal Regulations
CU	Commercial Use
DER	Department of Environmental Remediation
DER-10	Technical Guidance for Site Investigation and Remediation
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
ESA	Environmental Site Assessment
GPR	Ground Penetrating Radar
HVAC	Heating, ventilation, and air conditioning
mg/kg	Milligram per kilogram
MHz	megahertz
NGVD	National Geodetic Vertical Datum
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photo-ionization Detector
ppm	parts per million
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
REC	Recognized Environmental Condition
RRU	Restricted-Residential Use
SCO	Soil Cleanup Objective
SVOC	Semi-volatile Organic Compound
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UU	Unrestricted Use
VOC	Volatile Organic Compound
York	York Analytical Laboratories, Inc.

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1.0 INTRODUCTION

GC Fordham Road Development LLC (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 608 and 610 East Fordham Road, Bronx, New York. This Phase II ESA was focused on the single-story building located at 610 East Fordham Road, Bronx, New York as the building located on 608 East Fordham Road, Bronx, New York had a cellar level that was built into bedrock. The purpose of the Phase II ESA was to further evaluate recognized environmental conditions (RECs) identified in a January, 2022 Phase I ESA prepared by PWGC to obtain sound, scientifically valid data concerning actual property conditions.

Work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-19 (Standard Practices for Environmental Site Assessment: Phase II Environmental Site Assessment Process) and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).

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2.0 BACKGROUND

2.1 Site Description and Features

The subject property consists of one parcel located at 608 East Fordham Road and 610 East Fordham Road in Bronx, New York. The subject property is located in the Borough of New York City and Bronx County. The property is identified in the Bronx County Tax Map as Block 3078, Lot 16.

A Site Location Map is included as **Figure 1** and a Site Plan is included as **Figure 2**

The subject property measures approximately 11,812 square feet and is improved with one commercial building; a one-story commercial building at 610 East Fordham Road attached to a two-story commercial building at 608 East Fordham Road. The two addresses for the building are described separately below:

608 East Fordham Road – Vacant two-story portion of the building formerly utilized as a bar/lounge and billiard. The roof had a small concrete maintenance and storage building near the southeast corner and a heating, ventilation, and air conditioning (HVAC) system towards the center of the roof. The first floor was previously utilized as a bar/lounge with a kitchen and bathrooms located near the southwest corner of the building. Additional bathrooms were located towards the eastern perimeter on the first floor. All appliances have been removed from the kitchen area. A Disc Jockey booth was located in the stairwell leading up the second floor. The second floor was previously utilized as a billiard room with bathrooms located towards the south of the building. The building had a full basement with a storage and electric utility room. An elevator was located near the southeast corner of the building which serviced the basement, first floor, and second floor.

610 East Fordham Road – One-story portion of the building occupied by Fordham Car Spa which provides car washing, detailing and oil change/quick lube services. Two bay doors are located on the north side of the building. The car wash services are located inside on the eastern portion of the building with trenches that drain to New York City sanitary sewer. One hydraulic lift (hydraulic fluid reservoir above ground) is located near the southwest portion of the building. An enclosed office is centrally located within the building. Stairs towards the eastern perimeter lead up to a small maintenance area over the car wash that contains the plumbing, car wash and detailing supplies, and compressor. A sprinkler supply system is located on the eastern perimeter of the building.

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2.2 Physical Setting

The topography of the subject property and surrounding area was reviewed from the United Stated Geological Survey (USGS) 7.5-minute series topographic map for the Central Park, New York quadrangle. The property elevation is approximately 86 feet above the National Geodetic Vertical Datum (NGVD).

Based on readings taken from nearby monitoring wells (north of subject property) and previously collected data points, the depth to groundwater at the subject property is expected to be from 10 to 15 feet below the surface and is assumed to be within the shallow bedrock surface. The flow direction would be influenced by the orientation of joints and fractures in the bedrock surface and the local topography. In the absence of other information, the direction of flow is assumed to follow the topographic slope to the southeast towards the Bronx River.

2.3 Site History and Land Use

Based on review of historical sources, the subject property was first developed between 1896 and 1901. The property was used for residential purposes from approximately 1901 – 1914, residential and commercial purposes from approximately 1914 – 1927, and commercial purposes from 1927 to current. Historical usage of the subject property indicative of potential RECs includes historical usage as an auto supply warehouse and storage at 608 East Fordham Road, and as gas station and automotive service center at 610 East Fordham Road.

2.4 Adjacent Property Land Use

Based on review of historical sources, the area surrounding the subject property from 1927 to 2017 include a mix of residential and commercial properties including, two nearby gas stations, and several automotive service businesses.

2.5 Summary of Previous Assessments

2.5.1 Phase I Environmental Site Assessment Report (January 2022)

PWGC prepared a Phase I ESA in January of 2022 by Steven Cantillo. The Phase I ESA identified the following RECs associated with subject property.

- The subject property appears to have been historically used for commercial purposes, including automotive services, and automotive supply storage, since at least 1945. Current operations at 610 East

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Fordham Road include the storage and use of hazardous substances and petroleum products at the subject property. Identified historical usages are likely to have used/stored hazardous substances and/or petroleum products at the subject property as well. The presence of floor drains at 608 and 610 East Fordham Road represents pathways for such substances to potentially have been released to the environment should they not be connected to the municipal sewer system. Heavy staining was observed in the basement near the floor drains at 608 East Fordham Road. A hydraulic lift was located near the floor drain at 610 East Fordham Road. Based on this information, the historical usage of the subject property including storage of hazardous substances, petroleum products and visible staining, in conjunction with the floor drains, represents a REC.

- The former gas station was located on the northeast portion of the property at 610 East Fordham Road. According to the Sanborn maps, the gas station operated between 1945 and 1977 with two 550-gallon gasoline underground storage tanks (USTs). The presence/absence of the former gasoline tanks at 610 East Fordham Road could not be confirmed during the Phase I inspection. Additionally, the subject property is listed as an E-designation site (E-304) for Hazmat, Air Quality, and Noise. Based on this information, the historical usage of the subject property as a gas station and E-Designation site, represents a REC.

Based on the findings of the Phase I ESA PWGC recommended that a Phase II ESA be performed at subject property consisting of:

- Geophysical Investigation
- Sub-Slab Soil Sampling and/or Groundwater Sampling
- Sub-Slab Soil Vapor Sampling

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3.0 INVESTIGATION METHODOLOGY

The Phase II ESA included the following tasks:

- Geophysical survey focusing on the former location of the gas station
- Soil quality evaluation
    - Groundwater was to be collected if encountered but due to bedrock refusal in the soil boring locations it was not encountered.
- Soil vapor intrusion investigation

3.1 Geophysical Survey

On July 24th, 2022, PWGC and Coastal Environmental Solutions, Inc. (CES) of Medford, New York mobilized to the subject property to perform a geophysical survey. The purpose of the geophysical survey was to determine the absence/presence of subsurface anomalies at the subject property. Descriptions of the geophysical methods are described below.

A copy of the Geophysical Survey Report, including further detail regarding the methodology and findings, is included in **Appendix A**.

3.1.1 Electromagnetic Survey

CES utilized a Fisher M-Scope TW-6 and vLoc3-Pro Receiver electromagnetic (EM) instrument. The Fisher M-Scope TW-6 electromagnetic uses the principle of EM induction to measure the variability of electrical conductivity of subsurface materials and the presence of buried metal objects. Significant contrasts in the electrical properties between non-indigenous materials and surrounding soil enable accurate delineation of buried waste materials, fill, and geologic features. The large EM response to metal makes this technique particularly well suited to identifying buried metal objects such as USTs, metallic wastes, buried drums, pipelines, reinforced building foundations, and other metal components of buried structures. It is, however, equally sensitive to metal objects on the ground surface. The vLoc3-Pro Receiver is a hand operated antenna cable capable of detecting EM fields from a source, such as underground pipes and cables up to 20 feet below grade surface.

3.1.2 Ground Penetrating Radar Survey

Following the electromagnetic survey, Coastal utilized a ImpulseRadar PinPointR UWB with a 400/800-megahertz (MHz) antenna to further investigate the metallic anomalies. Ground penetrating radar (GPR) uses high frequency pulsed electromagnetic waves to acquire subsurface information. Energy is propagated downward into the ground

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and is reflected back to the surface from boundaries at which there are electrical property contrasts. Penetration is the greatest in unsaturated sands and fine gravels and dry, well cured concrete. Clayey, highly saline or saturated soils, areas covered by steel reinforced concrete, foundry slag, uncured concrete, or other highly conductive materials significantly reduce depth penetration of the GPR signal. The 400/800 MHz antenna can achieve depths of penetration up to about 20 feet, but this depth may be greatly reduced depending on the site-specific conditions. The findings of the geophysical survey are discussed further in Section 4.2.1.

3.2 Soil Quality Evaluation

To characterize soil quality at the subject property, soil borings were installed throughout the subject property. A total of seven soil borings were installed during the Phase II ESA investigation. Soil boring locations are illustrated in **Figure 2**.

3.2.1 Soil Boring Protocol

CES provided environmental drilling services during the investigation. A Geoprobe® 6620DT Direct Push drill rig was utilized to install the environmental soil borings. Soils were collected continuously from ground surface to an approximate depth ranging from three and a half to eight feet below surface grade. Each boring encountered bedrock refusal.

The soil cores were placed on 10-mil polyethylene sheeting in the order they came out of the ground. The acetate liners were cut open and the soil core was screened for the presence of volatile organic vapors, which are commonly associated with petroleum products and industrial solvents, utilizing a photo-ionization detector (PID). Each soil core was classified by a hydrogeologist using the Unified Soil Classification System (USCS). A soil boring log was developed for each location (**Appendix B**) and includes the characterization and screening data.

3.2.2 Soil Sample Collection Protocol

Soil samples collected for volatile organic analysis were collected directly from the acetate liners utilizing terra-core sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to York Analytical Laboratories, Inc. (York) a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory, for analysis following NYSDEC Analytical Services Protocol (ASP)-Category A Deliverables.

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3.3 Soil Vapor Intrusion Investigation

To evaluate potential vapor intrusion at the subject property, a soil vapor intrusion investigation was performed. The investigation consisted of the collection of one sub-slab soil vapor, one indoor air, and outdoor (ambient) air sample.

Sampling was conducted in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in New York State," (NYSDOH Guidance) October 2006 and subsequent addenda.

3.3.1 Indoor Air Quality Questionnaire and Building Inventory

Prior to sample collection, an inspection was performed to identify and minimize conditions that may interfere with the proposed testing. The inspection evaluated the type of structure, floor layout, air flows and physical conditions of the building being studied. Due to ongoing site activities as an active car wash, an area that was not near the open roll up doors was selected to install the sub-slab sample and associated indoor air sample. This information, along with information on sources of potential indoor air contamination, is included on a building inventory form (**Appendix C**).

3.3.2 Soil Vapor and Air Sampling Point Installation Protocol

Sub-slab soil vapor, indoor air, and outdoor air sampling was performed in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in New York State," (NYSDOH Guidance) October 2006 and subsequent addenda.

3.3.2.1 Sub-Slab Soil Vapor Sampling

Sub-slab soil vapor sampling points were installed to approximately two inches beneath the floor slab in accordance with procedures specified in the NYSDOH Guidance. Sampling points were constructed of dedicated polyethylene tubing backfilled with porous inert material and sealed at the surface with hydrated bentonite.

3.3.2.2 Indoor and Outdoor Air Sampling

Indoor and outdoor air samples were collected concurrently with sub-slab soil vapor samples. Indoor air samples were co-located with sub-slab soil vapor samples.

The outdoor air sample was collected at an upwind location as determined in the field to determine the potential contribution of outdoor air quality on indoor air. On the date samples were collected, the wind direction at the

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subject property was determined to be toward the east; therefore, the outdoor air sample was collected at the west side of the property's boundary.

Indoor and outdoor air samples were collected from a height representing the breathing zone (between 3 and 5 feet above the floor).

3.3.2.3 Tracer Gas Testing

Prior to sampling, the integrity of sub-slab soil vapor sampling point seals was tested using tracer gas analysis. The environment surrounding the seal was enriched with the tracer gas (helium) as readings were collected through the sampling probe with a portable helium detector. Seals were adjusted as needed until acceptable tracer gas readings were collected from each soil vapor probe indicating the seals were intact and the sampling probes were acceptable for sample collection.

After the initial tracer gas test was performed, one to three volumes of the sample tubing was purged prior to collecting samples. Flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize potential indoor air infiltration during sampling.

3.3.3 Soil Vapor and Air Sample Collection Protocol

Sub-slab soil vapor, indoor air, and outdoor air samples were collected into 6-liter Summa® vacuum canisters fitted with 2-hour flow controllers. Canisters and flow controllers were batch certified clean by the laboratory. Proper quality assurance/quality control (QA/QC) protocol was followed during the collection of soil gas samples to ensure that cross-contamination in the field did not occur. Canister sampling data sheets are included as **Appendix D**.

4.0 INVESTIGATION FINDINGS

4.1 Scope of Assessment

RECs identified in the Phase I ESA were evaluated as follows:

- REC 1 – Current and historical subject property usage for automotive services. Evaluation of potential impact related to the current and historical usage of the subject property consisted of collection and analysis of soil samples and sub-slab vapor points from throughout the subject property.

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- REC 2 - Historical site usage as a gas station and E-Designation site. Potential impact related to the historical usage of the subject property as a gas station consisted of geophysical survey to identify subsurface anomalies, and collection and analysis of soil samples from throughout the subject property.

4.2 REC 1 & 2 – Current and Historical Site Usage as Automotive Services and a Gas Station

To evaluate these RECs, PWGC performed the following scope of work:

- Geophysical survey to identify subsurface anomalies.
- Installation of seven soil borings (SB001 through SB007), and collection of one soil sample from each boring.
    - SB001, SB002, SB006, and SB007 were installed in the area depicted as the former automotive fueling station.
    - SB004 was installed adjacent the hydraulic lift.
    - SB003 and SB005 were installed throughout the subject property.
- Installation of one sub-slab vapor, one indoor and one outdoor air sample (SS001, IA001, AA001) to evaluate potential soil vapor intrusion within the existing building.

4.2.1 Geophysical Survey

A geophysical survey was performed as detailed in Section 3.1. Findings of the geophysical survey relevant to these RECs included the following:

- CES conducted a utility locate for all soil borings and drilling locations were field adjusted as necessary.
- CES did not locate any subsurface anomalies indicative of USTs; however, the subject property appeared to contain shallow saturated soil which reduced the maximum GPR depth to 2 feet below grade surface.

4.2.2 Soil Quality Evaluation

To characterize soil quality relative to RECs 1 & 2, soil borings were installed throughout the subject property. A total of seven soil borings (SB001 through SB007) were installed during the investigation. Groundwater was not encountered at the subject property due to refusal in each soil boring. Soil boring locations are illustrated in **Figure 2**.

4.2.2.1 Soil Boring Protocol

Soil borings relative to REC 1 were installed as detailed in Section 3.2. Soils were collected continuously from ground surface to an approximate depth of eight feet below surface grade. Each soil boring encountered refusal due to bedrock. Soils in these areas generally consisted of miscellaneous debris (brick, concrete, asphalt, etc), and

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poorly graded sand with some gravel from grade to a depth of eight feet. No evidence impacts such as staining, odor was detected except a minor PID response of 2.0 parts per million (ppm) at SB003. Groundwater was not encountered prior to the soil boring refusal at bedrock. Weathered bedrock was observed at the terminal depth of each boring and was consistent throughout the subject property. Soil boring logs are included in **Appendix B**.

4.2.2.2 Soil Sample Collection Protocol

Based on the lack of visual/olfactory impact detected during field screening and/or refusal, soil samples were collected from the shallow two-foot interval at SB002, SB003, SB004, SB005 (0 to 2 feet below ground surface) boring locations in order to address concerns that previous and ongoing site conditions may have impacted the subsurface. In addition, the deepest two-foot interval at SB001, SB006, SB007 (6 to 8 feet below ground surface) boring locations were collected to determine if the subject property's use as a gasoline station may have impacted the subsurface due to the potential former presence of USTs. Soil samples relative to RECs 1 & 2 were collected as detailed above, and were analyzed for the following:

- Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260
- Semi-Volatile Organic Compounds (SVOCs) by USEPA method 8270
- Metals by USEPA methods 6010/7471.

4.2.2.3 Soil Analytical Results

Soil analytical results were compared to the Soil Cleanup Objectives (SCOs) for Unrestricted Use (UU), Restricted Residential Use (RRU) and Commercial Use (CU) specified in NYSDEC's Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375.

VOCs were not detected at concentrations greater than their UUSCOs except for Acetone in SB003(0-2'). This concentration was less than its respective RRUSCO.

SVOCs were not detected at concentrations greater than their UUSCOs except for the following:

- Chrysene was detected at concentrations greater than its respective UUSCO (1 milligram per kilogram (mg/kg)) in (SB001(5'-7') and SB006(6'-8'). Chrysene was also detected at concentrations greater than its respective RRUSCO (3.9 mg/kg) in SB003(0-2') and SB007(6'-8') but was less than its CUSCO (56 mg/kg).

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- Indeno(1,2,3-cd)pyrene was detected at concentrations greater than its respective RRUSCO (0.5 mg/kg) in SB001(5'-7'), SB003(0-2'), SB006(6'-8') and SB007(6'-8') but less than its respective CUSCO (5.6 mg/kg).
- Benzo(a)anthracene was detected at concentrations greater than its respective RRUSCO (1 mg/kg) in SB001(5'-7') and SB007(6'-8') and greater than its CUSCO (5.6 mg/kg) in SB003(0-2')
- Benzo(b)pyrene was detected at concentrations greater than its respective CUSCO (1 mg/kg) in SB001(5'-7'), SB003(0-2'), SB006(6'-8') and SB007(6'-8').
- Benzo(b)fluoranthene was detected at concretions greater than its respective RRUSCO (1 mg/kg) in SB001(5'-7') and SB007(6'-8') and its respective CUSCO (5.6 mg/kg) in SB003(0-2').
- Dibenzo(a,h)anthracene was detected at a concentration greater its respective RRUSCO (0.33 mg/kg) in SB001(5'-7') but less than its CUSCO. Dibenzo(a,h)anthracene was also detected above its CUSCO (0.56 mg/kg) in SB003(0-2') and SB007(6'-8').
- Benzo(k)fluoranthene was detected at a concentration greater than its respective UUSCO (0.8 mg/kg) in SB001(5'-7') but less than its RRUSCO. Benzo(k)fluoranthene was also detected above its RRUSCO (3.9 mg/kg) in SB003(0-2') and SB007(6'-8').

Metals were not detected at concentrations greater than their respective UUSCOs in SB004(0-2'). Metals were not detected in the other sample locations at concentrations greater than their respective UUSCOs except for the following:

- Zinc was detected at concentrations greater than its respective UUSCO (109 mg/kg) but below its RRUSCO (10,000 mg/kg) in SB001(5'-7'), SB002(0-2'), SB003(0-2') and SB007(6'-8').
- Mercury was detected at concentrations greater than its respective UUSCO (.18 mg/kg) in SB006(6'-8') and SB007(6'-8') and greater than its respective RRUSCO (0.81 mg/kg) in SB001(5'-7').
- Lead was detected at concentrations greater than its respective UUSCO (63 mg/kg) in SB001(5'-7') and SB003(0-2'). Lead was also detected above its respective RRUSCO (400 mg/kg) in SB007(6'-8') and its CUSCO (1,000 mg/kg) in SB002(0-2). The concentration of lead in SB002(0-2) was 18,900 mg/kg which may indicate a hazardous level of lead impact.
- Copper was detected at concentrations greater than its respective UUSCO (50 mg/kg) in SB002(0-2'), SB005(0-2') and SB007(6'-8') but below its RRUSCO (270 mg/kg).
- Cadmium was detected above its RRUSCO (4.3 mg/kg) but below its CUSCO (9.3 mg/kg) in SB002(0-2').

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- Barium was detected at concentrations greater than its CUSCO in SB002(0-2'), SB003(0-2') and SB007(6'-8').

The detections of SVOCs and Metals above their RRUSCOs and CUSCOs are likely attributed to historic usage of the subject property.

Analytical results are detailed in **Tables 1** through **3** and the complete laboratory analytical report is included in **Appendix E**.

4.2.3 Soil Vapor Intrusion Investigation

To evaluate potential vapor intrusion at the subject property, a soil vapor intrusion investigation was performed. Soil vapor and air samples were collected as described in Section 3.3.

4.2.3.1 Indoor Air Quality Questionnaire and Building Inventory Results

An inspection was performed to identify and minimize conditions that may interfere with air and vapor testing as described in Section 3.3.1. Findings of the inspection include the following:

- Chemicals stored onsite include adhesives, solvents, lubricants, sealants, primers and cleaners, Multiple compounds that may contain VOCs were identified in the inventory. To minimize potential impact from these sources the indoor air sample was collected in an area within the building where chemical storage appeared to be minimal. A copy of the chemical inventory is included in **Appendix D.**

4.2.3.2 Soil Vapor and Air Analytical Results

The primary method for the evaluation of sub-slab vapor and indoor air data is the use of Soil Vapor / Indoor Air Matrices provided in the NYSDOH Guidance document. The matrices incorporate both sub-slab vapor concentrations and their corresponding indoor air concentrations in a table to formulate an appropriate action for a sampling site. Matrices have been developed for 1,1-dichlorothene, cis-1,2-dichloroethene, vinyl chloride, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, and carbon tetrachloride. Although matrices have not yet been developed for other compounds, consideration is given to the comparisons between the sub-slab vapor and indoor air concentrations to determine if vapor intrusion is occurring.

When the analytical values are compared in the matrices, each compound falls into the no further action category.

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In addition, PWGC performed a cursory overview of the compounds that do not have a NYSDOH Matrix. There were some minor detections of BTEX compounds (Benzene, Ethylbenzene, Toluene, and Xylene) in the sub-slab and indoor air concentrations. The detected concentrations do not appear to be indicative of a release to the environment. These compounds are also found in the outdoor air sample but at much lower concentrations.

Analytical results are detailed in **Table 7**. The complete laboratory analytical report is included in **Appendix E** and copies of Soil Vapor / Indoor Air Matrices are included in **Appendix F**.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC has performed a Phase II ESA at the subject property in conformance with the scope and limitations of ASTM Practice E1903-19 for the following objectives:

- REC 1 – Current and historical site usage for automotive services. Evaluation of potential impact related to the current and historical usage of the subject property consisted of collection and analysis of soil samples and sub-slab vapor points from throughout the subject property.
- REC 2 - Historical site usage as a gas station and E-Designation site. Potential impact related to the historical usage of the subject property as a gas station consisted of geophysical survey to identify subsurface anomalies, and collection and analysis of soil samples from throughout the subject property.

5.1 Conclusions

Based on the results of the Phase II ESA, PWGC offers the following conclusions:

- Subsurface anomalies were not identified as part of this investigation. However, reinforced concrete limited the effectiveness of the geophysical survey and anomalies beyond the limitations of the equipment may exist.
- SVOC and metals are present in the fill and soil at the subject property. This impact seems to be related to the historic use of the subject property.
- Soil vapor concerns at the subject property were not identified.

5.2 Recommendations

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

- A Supplemental investigation should be performed to delineate the extent of lead contamination.
- Future construction activities at the subject property should take into consideration the quality of the fill/soil at the subject property.

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6.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Derek Ersbak, PG
Vice President

Report Completion Date: 2022.08.15

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7.0 REFERENCES

6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 and 375-6.

NYSDOH October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

NYSDOH May 2017: Updates to Soil Vapor / Indoor Air Decision Matrices.

Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM Standard E 1903-19.

Technical Guidance for Site Investigation and Remediation (DER-10), NYSDEC, May 3, 2010.

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8.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections and examination of records prepared by others. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
5. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.

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FIGURES

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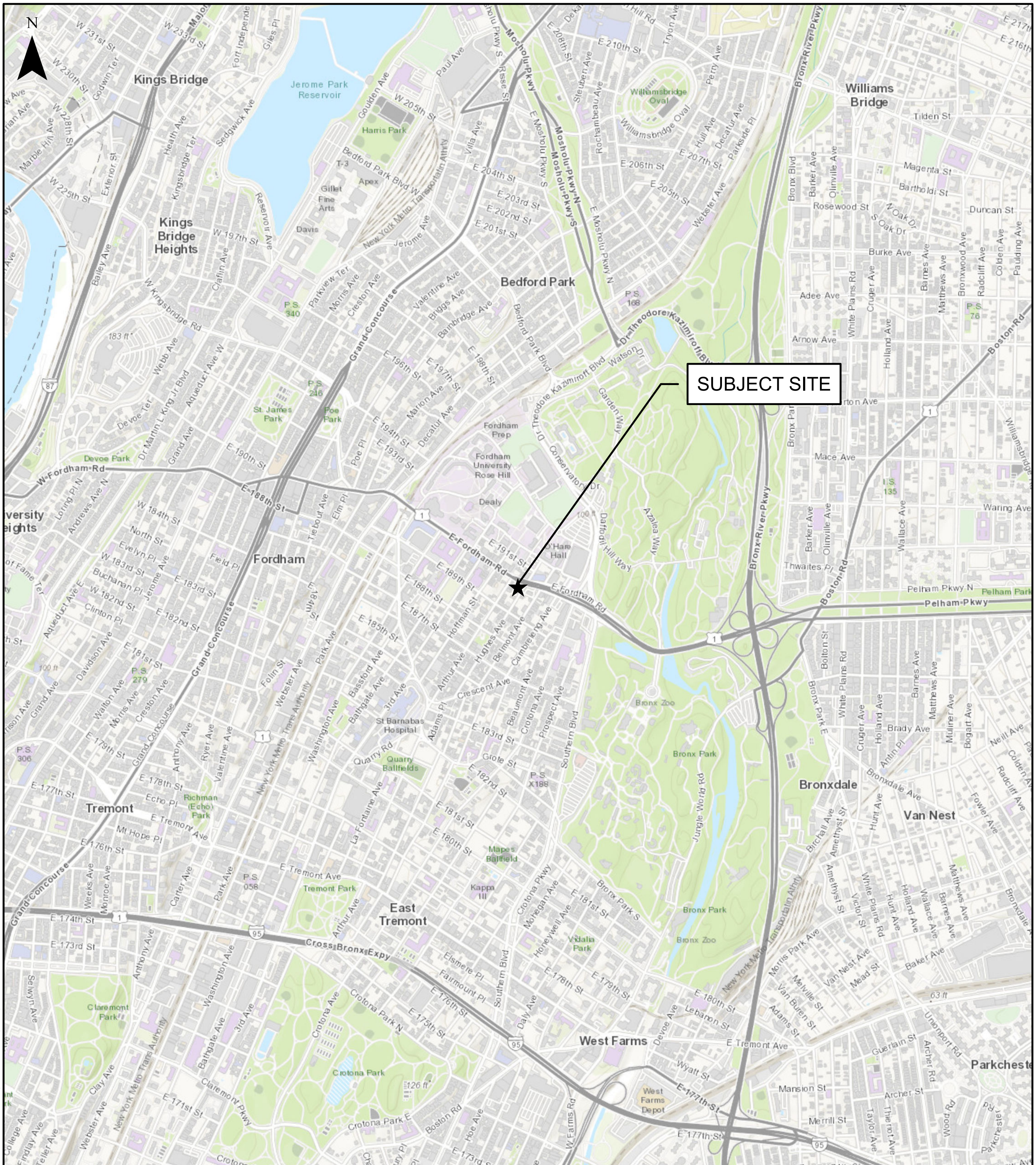

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SITE LOCATION

608/610 E Fordham Rd
Bronx, NY

Scale (Miles): 0 ¼ ½ ¾ 1

Project:	BLU2103
Date:	1/13/2022
Designed by:	SC
Drawn by:	OA
Approved by:	SC
Figure No:	1

Document Path: G:\Shared drives\BLU_GIS\2103\E Fordham Rd\ArcProProject\ArcProProject.aprx

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	BLU2202	Designed by:	SC
Date:	8/15/2022	Drawn by:	OA
Scale:	AS SHOWN	Approved by:	SC

SITE PLAN

608/610 E Fordham Rd
Bronx, NY

FIGURE NO:

2

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TABLES

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Table 1
610 E Fordham Road, Bronx, New York
VOCs

Sample ID: Sample Date: Lab ID:	NYSDEC [1] Soil Cleanup Objectives Unrescricted Use	NYSDEC [2] Soil Cleanup Objectives Restricted-Residential Use	NYSDEC [3] Soil Cleanup Objectives Commercial Use	SB006 (6'-8') 7/24/2022 22G1102-01	SB007(6'-8') 7/24/2022 22G1102-02	SB001(5'-7') 7/24/2022 22G1102-03	SB002(0-2') 7/24/2022 22G1102-04	SB005(0-2') 7/24/2022 22G1102-05	SB003(0-2') 7/24/2022 22G1102-06	SB004(0-2') 7/24/2022 22G1102-07
Method 8260C - Volatile Organic Compounds by GC/MS - (mg/kg)										
1,1,1,2-Tetrachloroethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1,1-Trichloroethane	0.68	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1,2-Trichloroethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1-Dichloroethane	0.27	26	240	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1-Dichloroethylene	0.33	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,1-Dichloropropene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2,3-Trichloropropane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2,4-Trichlorobenzene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2,4-Trimethylbenzene	3.6	52	190	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2-Dibromo-3-chloropropane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2-Dibromoethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2-Dichlorobenzene	1.1	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2-Dichloroethane	0.02	3.1	30	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,2-Dichloropropane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,3,5-Trimethylbenzene	8.4	52	190	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,3-Dichlorobenzene	2.4	49	280	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,3-Dichloropropane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,4-Dichlorobenzene	1.8	13	130	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
1,4-Dioxane	0.1	13	130	0.0290 U	0.0270 U	0.0260 U	0.0390 U	0.0270 U	0.0340 U	0.0280 U
2,2-Dichloropropane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
2-Butanone	0.12	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0048	0.0014 U
2-Chlorotoluene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
2-Hexanone	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
4-Chlorotoluene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
4-Ethyloluene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Acetone	0.05	100	500	0.0087	0.0027 U	0.0026 U	0.0039 U	0.010	0.080	0.0028 U
Acrolein	NS	NS	NS	0.0029 U	0.0027 U	0.0026 U	0.0039 U	0.0027 U	0.0034 U	0.0028 U
Acrylonitrile	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Benzene	0.06	4.8	44	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Bromobenzene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Bromochloromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Bromodichloromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Bromoform	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Bromomethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Carbon disulfide	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Carbon tetrachloride	0.76	2.4	22	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Chlorobenzene	1.1	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Chloroethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Chloroform	0.37	49	350	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Chloromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
cis-1,2-Dichloroethene	0.25	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
cis-1,3-Dichloropropene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Cyclohexane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Dibromochloromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Dibromomethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Dichlorodifluoromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Ethylbenzene	1	41	390	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Hexachlorobutadiene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Isopropylbenzene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Methyl acetate	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Methyl tert butyl ether	0.93	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Methylcyclohexane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Methylene chloride	0.05	100	500	0.0029 U	0.0027 U	0.0026 U	0.0039 U	0.0035 J	0.0034 U	0.0028 U
n-Butylbenzene	12	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
n-Propylbenzene	3.9	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
o-Xylene	0.26	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
p/m-Xylene	0.26	100	500	0.0029 U	0.0027 U	0.0026 U	0.0039 U	0.0027 U	0.0034 U	0.0028 U
p-Isopropyltoluene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
sec-Butylbenzene	5.9	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Styrene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
tert-Butyl alcohol (TBA)	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
tert-Butylbenzene	5.9	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Tetrachloroethene	1.3	19	150	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Toluene	0.7	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
trans-1,2-Dichloroethene	0.19	100	500	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
trans-1,3-Dichloropropene	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Trichloroethene	0.47	21	200	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Trichlorofluoromethane	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Vinyl acetate	NS	NS	NS	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Vinyl chloride	0.02	0.9	13	0.0015 U	0.0014 U	0.0013 U	0.0019 U	0.0013 U	0.0017 U	0.0014 U
Xylenes, Total	0.26	100	500	0.0044 U	0.0041 U	0.0039 U	0.0058 U	0.0040 U	0.0051 U	0.0043 U
Total VOCs	NS	NS	NS	0.0087	0.0	0.0	0.0	0.010	0.080	0.0

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environemntal Remediation Programs Part375 Commercial Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No Standard
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding the NYSDEC Unrestricted Use SCO

Table 2
610 E Fordham Road, Bronx, New York
SVOCs

Sample ID:	NYSDEC [1] Soil Cleanup Objectives Unrescricted Use	NYSDEC [2] Soil Cleanup Objectives Restricted-Residential Use	NYSDEC [3] Soil Cleanup Objectives Commercial Use	SB006 (6'-8')		SB007(6'-8')		SB001(5'-7')		SB002(0-2')		SB005(0-2')		SB003(0-2')		SB004(0-2')	
Sample Date:				7/24/2022		7/24/2022		7/24/2022		7/24/2022		7/24/2022		7/24/2022		7/24/2022	
Lab ID:				22G1102-01		22G1102-02		22G1102-03		22G1102-04		22G1102-05		22G1102-06		22G1102-07	
Method: 8270 D - Semivolatile Organic Compounds (GC/MS) - (mg/kg)																	
1,1-Biphenyl	NS	NS	NS	0.0512	U	0.0911	JD	0.115	D	0.0481	U	0.0504	U	0.114	D	0.0429	U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
1,2,4-Trichlorobenzene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
1,2-Dichlorobenzene	1.1	100	500	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
1,2-Diphenylhydrazine (as Azobenzene)	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
1,3-Dichlorobenzene	2.4	49	280	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
1,4-Dichlorobenzene	1.8	13	130	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
2,4,5-Trichlorophenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,4,6-Trichlorophenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,4-Dichlorophenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,4-Dimethylphenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,4-Dinitrophenol	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
2,4-Dinitrotoluene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2,6-Dinitrotoluene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2-Chloronaphthalene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2-Chlorophenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2-Methylnaphthalene	NS	NS	NS	0.145	D	0.288	D	0.513	D	0.0522	JD	0.0504	U	0.284	D	0.0429	U
2-Methylphenol	0.33	100	500	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
2-Nitroaniline	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
2-Nitrophenol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
3+4-Methylphenol	0.33	100	500	0.0512	U	0.0488	U	0.0556	JD	0.076	JD	0.0504	U	0.0534	U	0.0429	U
3,3'-Dichlorobenzidine	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
3-Nitroaniline	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
4,6-Dinitro-o-cresol	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
4-Bromophenyl phenyl ether	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
P-Chloro-M-Cresol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
4-Chloroaniline	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
4-Nitroaniline	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
4-Nitrophenol	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
Acenaphthene	20	100	500	0.162	D	0.571	D	0.397	D	0.0481	U	0.0504	U	0.742	D	0.0429	U
Acenaphthylene	100	100	500	0.2	D	1.08	D	0.766	D	0.0606	JD	0.0504	U	1.56	D	0.0429	U
Acetophenone	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Aniline	NS	NS	NS	0.205	U	0.195	U	0.199	U	0.192	U	0.201	U	0.213	U	0.171	U
Anthracene	100	100	500	0.431	D	1.5	D	1.04	D	0.0982	D	0.0504	U	2.09	D	0.0429	U
Atrazine	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Benzaldehyde	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Benzidine	NS	NS	NS	0.205	U	0.195	U	0.199	U	0.192	U	0.201	U	0.213	U	0.171	U
Benzo(a)anthracene	1	1	5.6	0.916	D	4.2	D	2.54	D	0.34	D	0.0504	U	6.64	D	0.0429	U
Benzo(a)pyrene	1	1	1	0.714	D	4.38	D	2.42	D	0.286	D	0.0504	U	6.08	D	0.0429	U
Benzo(b)fluoranthene	1	1	5.6	0.78	D	3.61	D	2.29	D	0.271	D	0.0504	U	5.91	D	0.0429	U
Benzo(ghi)perylene	100	100	500	0.503	D	2.44	D	1.53	D	0.196	D	0.0504	U	2.98	D	0.0429	U
Benzo(k)fluoranthene	0.8	3.9	56	0.627	D	3.96	D	2.16	D	0.184	D	0.0504	U	5.27	D	0.0429	U
Benzoic Acid	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Benzyl Alcohol	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Butyl benzyl phthalate	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Bis(2-chloroethyl)ether	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Bis(2-chloroisopropyl)ether	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Bis(2-Ethylhexyl)phthalate	NS	NS	NS	1.29	D	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Caprolactam	NS	NS	NS	0.102	U	0.0974	U	0.0994	U	0.096	U	0.101	U	0.107	U	0.0856	U
Carbazole	NS	NS	NS	0.248	D	0.0488	U	0.856	D	0.0537	JD	0.0504	U	0.791	D	0.0429	U
Chrysene	1	3.9	56	1.05	D	5.21	D	3.17	D	0.525	D	0.0504	U	8.6	D	0.0429	U
Dibenzo(a,h)anthracene	0.33	0.33	0.56	0.115	D	0.827	D	0.546	D	0.0481	U	0.0504	U	1.21	D	0.0429	U
Dibenzofuran	7	59	350	0.0512	U	0.452	D	0.651	D	0.0481	U	0.0504	U	0.57	D	0.0429	U
Diethyl phthalate	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Dimethyl phthalate	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Di-n-butylphthalate	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Di-n-octylphthalate	NS	NS	NS	1.22	D	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Fluoranthene	100	100	500	2.45	D	11.3	D	7.42	D	0.589	D	0.0504	U	19.6	D	0.0712	JD
Fluorene	30	100	500	0.27	D	0.887	D	0.896	D	0.0481	U	0.0504	U	1.06	D	0.0429	U
Hexachlorobenzene	0.33	1.2	6	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Hexachlorobutadiene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Hexachlorocyclopentadiene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Hexachloroethane	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Indeno(1,2,3-cd)Pyrene	0.5	0.5	5.6	0.574	D	2.9	D	1.75	D	0.146	D	0.0504	U	4.08	D	0.0429	U
Isophorone	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Naphthalene	12	100	500	0.289	D	0.291	D	1.19	D	0.0576	JD	0.0504	U	0.252	D	0.0429	U
Nitrobenzene	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
N-Nitrosodimethylamine	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
n-Nitrosodi-n-propylamine	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
NitrosoDiPhenylAmine(NDPA)/DPA	NS	NS	NS	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Pentachlorophenol	0.8	6.7	6.7	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Phenanthrene	100	100	500	2.6	D	11	D	8.31	D	0.441	D	0.0504	U	17.7	D	0.0828	JD
Phenol	0.33	100	500	0.0512	U	0.0488	U	0.0498	U	0.0481	U	0.0504	U	0.0534	U	0.0429	U
Pyrene	100	100	500	2.52	D	9.76	D	5.81	D	0.501	D	0.0504	U	16.1	D	0.0705	JD
Pyridine	NS	NS	NS	0.205	U	0.195	U	0.199	U	0.192	U	0.201	U	0.213	U	0.171	U
Total SVOCs				17.104		62.307		44.426		3.877		0		101.633		0.2245	

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use of Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Commercial Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No Standard
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D - Result required a dilution
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding the NYSDEC Unrestricted Use SCO
Highlighted text denotes concentrations exceeding the NYSDEC Restricted Residential Use SCO

Table 3
610 E Fordham Road, Bronx, New York
Metals

Sample ID: Sample Date: Lab ID:	NYSDEC [1] Soil Cleanup Objectives Unrescricted Use	NYSDEC [2] Soil Cleanup Objectives Restricted-Residential Use	NYSDEC [3] Soil Cleanup Objectives Commercial Use	SB006 (6'-8') 7/24/2022 22G1102-01	SB007(6'-8') 7/24/2022 22G1102-02	SB001(5'-7') 7/24/2022 22G1102-03	SB002(0-2') 7/24/2022 22G1102-04	SB005(0-2') 7/24/2022 22G1102-05	SB003(0-2') 7/24/2022 22G1102-06	SB004(0-2') 7/24/2022 22G1102-07
Method: 6010C - Metals (ICP) - (mg/kg)										
Aluminum, Total	NS	NS	NS	12,600	15,500	17,900	12,100	14,500	10,700	12,300
Antimony, Total	NS	NS	NS	3.71 U	3.54 U	3.59 U	3.48 U	3.1 U	3.15 U	3.09 U
Arsenic, Total	13	16	16	2.23 U	3.21	3.45	7.66	1.86 U	4.16	1.85 U
Barium, Total	350	400	400	125	880	143	1,120	57	1,230	40.3
Beryllium, Total	7.2	72	590	0.074 U	0.071 U	0.072 U	0.07 U	0.062 U	0.063 U	0.062 U
Cadmium, Total	2.5	4.3	9.3	0.446 U	1.06	0.467	5.48	0.372 U	0.643	0.371 U
Calcium, Total	NS	NS	NS	6450 B	17,400 B	5,760 B	12,800 B	10,700	34,800	6,060
Chromium, Total	30[c]	180	1,500	23.6	35.4	34.2	51.2	12.6	22.4	13.4
Cobalt, Total	NS	NS	NS	7.84	14	14.9	13.2	16.5	8.39	10.2
Copper, Total	50	270	270	20.1	61	46.7	270	85.6	33.6	25.4
Iron, Total	NS	NS	NS	15,300	22500	25,500	36900	38,200	14,700	28,200
Lead, Total	63	400	1,000	19.8	653	294	18,900	26.9	96.4	11.7
Magnesium	NS	NS	~	5050	10,100	7,320	4670	8,950	8,900	7,530
Manganese, Total	1,600	2,000	10,000	147	383	457	513	1,050	300	911
Nickel, Total	30	310	310	19.2	24	22.5	30	20.7	15.5	27.5
Potasium, Total	NS	NS	NS	1,400	3,880	2,230	2,940	1130 B	1,420 B	902 B
Selenium, Total	3.9	180	1,500	3.71 U	3.54 U	3.59 U	3.48 U	3.1 U	3.15 U	3.09 U
Silver, Total	2	180	1,500	0.743 U	0.725	0.717 U	1.68	0.62 U	0.631 U	0.618 U
Sodium, Total	NS	NS	NS	119	1,370	490	4,540	193	478	293
Thallium, Total	NS	NS	NS	3.71 U	3.54 U	3.59 U	3.48 U	3.1 U	3.15 U	3.09 U
Vanadium, Total	NS	NS	NS	31.2	42.3	47.5	30.1	57.6	27.8	16.7
Zinc, Total	109	10,000	10,000	69.6 B	600 B	183 B	1,830 B	86.4	129	66.9
Method: 7471B - Mercury (CVAA) - (mg/kg)										
Mercury, Total	0.18	0.81	2.8	0.0647	0.342	0.520	1.210	0.0310 U	0.169	0.0309 U

Notes:
(1) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use of Soil Cleanup Objective Table 375-6.8a 12/06
(2) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted-Residential Use of Soil Cleanup Objective Table 375-6.8b 12/06
(3) NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Commercial Use of Soil Cleanup Objective Table 375-6.8b 12/06
NS - No Standard
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
Highlighted text denotes concentrations exceeding the NYSDEC Unrestricted Use SCO
Highlighted text denotes concentrations exceeding the NYSDEC Restricted Residential Use SCO

Table 4
610 East Fordham Road, Bronx, New York
VOCs

Sample ID: Corresponding IA: Sampling Date: Lab Sample ID: Sample Type:	NYCDOH Guidance[1]	SS001 IA001 7/24/2022 22G1104-01 Sub-Slab Soil Vapor		IA001 N/A 7/24/2022 22G1104-02 Indoor Air		AA001 N/A 7/24/2022 22G1104-03 Outdoor Air	
Volatile Organic Compounds (µg/m^3)							
1,1,1,2-Tetrachloroethane	NS	9.5	U	0.549	U	0.537	U
1,1,1-Trichloroethane	NS	7.550	U	0.437	U	0.427	U
1,1,2,2-Tetrachloroethane	NS	9.5	U	0.549	U	0.537	U
Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	NS	10.6	U	0.613	D	0.659	D
1,1,2-Trichloroethane	NS	7.550	U	0.437	U	0.427	U
1,1-Dichloroethane	NS	5.6	U	0.324	U	0.317	U
1,1-Dichloroethene	NS	2.74	U	0.159	U	0.155	U
1,2,4-Trichlorobenzene	NS	10.3	U	0.594	U	0.58	U
1,2,4-Trimethylbenzene	NS	6.8	U	3.7	D	0.653	D
1,2-Dibromoethane	NS	10.600	U	0.615	U	0.601	U
1,2-Dichlorobenzene	NS	8.320	U	0.481	U	0.47	U
1,2-Dichloroethane	NS	5.6	U	0.324	U	0.316	U
1,2-Dichloropropane	NS	6.4	U	0.37	U	0.361	U
Freon 114 (1,2-Dichlorotetrafluoroethane)	NS	9.67	U	0.559	U	0.547	U
1,3,5-Trimethylbenzene	NS	7.48	D	0.983	D	0.384	U
1,3-Butadiene	NS	9.19	U	0.531	U	0.519	U
1,3-Dichlorobenzene	NS	8.320	U	0.481	U	0.47	U
1,3-Dichloropropane	NS	6.4	U	0.37	U	0.361	U
1,4-Dichlorobenzene	NS	8.320	U	1.59	D	0.47	U
1,4-Dioxane	NS	19	D	0.577	U	0.564	U
2-Butanone	NS	33.5	D	5.45	D	1.04	D
2-Hexanone	NS	11.3	U	0.852	D	0.641	U
3-Chloropropene	NS	21.7	U	1.25	U	1.22	U
4-Methyl-2-pentanone	NS	6.24	D	9.21	D	0.384	D
Acetone	NS	1000	D	53	D	11.6	D
Acrylonitrile	NS	3	U	0.174	U	0.17	U
Benzene	NS	6.19	D	9.38	D	0.899	D
Benzyl chloride	NS	7.17	U	0.414	U	0.405	U
Bromodichloromethane	NS	9.27	U	0.536	U	0.524	U
Bromoform	NS	14.3	U	0.827	U	0.808	U
Bromomethane	NS	5.37	U	0.311	U	0.304	U
Carbon disulfide	NS	9.050	D	0.349	D	0.244	U
Carbon tetrachloride	NS	2.18	U	0.302	D	0.443	D
Chlorobenzene	NS	6.37	U	0.368	U	0.36	U
Chloroethane	NS	3.65	U	0.211	U	0.206	U
Chloroform	NS	17.6	D	1.02	D	0.382	U
Chloromethane	NS	2.86	U	1.26	D	1.5	D
cis-1,2-Dichloroethene	NS	2.74	U	0.159	U	0.155	U
cis-1,3-Dichloropropene	NS	6.28	U	0.363	U	0.355	U
Cyclohexane	NS	6.19	D	169	D	0.269	D
Dibromochloromethane	NS	11.8	U	0.681	U	0.666	U
Dichlorodifluoromethane	NS	6.84	U	2.33	D	2.51	D
Ethyl Acetate	NS	9.97	U	0.577	U	0.564	U
Ethylbenzene	NS	6.010	U	2.74	D	0.475	D
Hexachlorobutadiene	NS	14.8	U	0.853	U	0.834	U
Isopropanol	NS	23.1	D	34.7	D	1.25	D
Methyl Methacrylate	NS	5.67	U	0.328	U	0.320	U
Methyl tert butyl ether	NS	4.99	U	0.288	U	0.282	U
Methylene chloride	60	9.61	U	0.556	U	0.543	U
n-Heptane	NS	5.67	D	26	D	0.481	D
n-Hexane	NS	23.9	D	685	D	0.992	D
o-Xylene	NS	8.410	D	3.86	D	0.509	D
p/m-Xylene	NS	19.200	D	9.76	D	1.12	D
P-Ethyltoluene	NS	12.2	D	3.26	D	0.615	D
Propylene	NS	7.62	D	30.9	D	0.915	D
Styrene	NS	5.9	U	0.852	D	0.333	U
Tetrachloroethene	30	65.7	D	1.36	D	1.11	D
Tetrahydrofuran	NS	8.160	U	0.472	U	0.461	U
Toluene	NS	25	D	16	D	1.74	D
trans-1,2-Dichloroethene	NS	5.49	U	0.317	U	0.31	U
trans-1,3-Dichloropropene	NS	6.28	U	0.363	U	0.355	U
Trichloroethene	2	1.86	U	0.344	D	0.105	U
Trichlorofluoromethane	NS	7.78	U	1.57	D	1.41	D
Vinyl acetate	NS	4.87	U	0.282	U	0.275	U
Vinyl bromide	NS	6.05	U	0.35	U	0.342	U
Vinyl chloride	NS	1.77	U	0.102	U	0.0999	U

Notes:
1 - Air Guideline Values, NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (applies to indoor/ambient air only)
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
D - Result is from an analysis that required a dilution

APPENDIX A

P.W. GROSSER CONSULTING, INC.
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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON

Coastal Environmental Solutions, Inc.

GEOPHYSICAL INVESTIGATION REPORT

8/2/22

610 East Fordham Road, Bronx, NY
Date of Investigation: 7/24/2022

Prepared for:

PW Grosser
630 Johnson Ave, Suite 7
Bohemia, NY 11716

Prepared By:

Dennis Berthold
Coastal Environmental Solutions, Inc.
PO Box 342
Medford, New York 11763

1.0 INTRODUCTION

On 7/24/2022, Coastal Environmental Solutions, Inc (Coastal) personnel performed a limited geophysical investigation at the site located at 610 East Fordham Road, Bronx, NY. The area of interest included seven (7) soil boring locations within the building on site as indicated by the client. Surface conditions consisted of concrete.

2.0 SCOPE OF WORK

1. Locate and mark detectable underground utilities in close proximity to client proposed soil boring locations.

3.0 EQUIPMENT

ImpulseRadar PinPointR Ultra-Wide Band (UWB) Penetrating Radar System

Ground Penetrating RADAR (GPR) is a non-destructive geophysical method that produces a continuous cross-sectional profile of subsurface features in real time. GPR operates by transmitting both high and low frequency electromagnetic wave pulses down into the ground through a transmitter in the antenna. The transmitted electromagnetic waves reflect off materials with contrasting dielectric properties from surrounding medium such as underground storage tanks, utilities, distinct contacts between different earth materials, and other various subsurface objects. The antenna receiver collects the reflected electromagnetic waves which are then interpreted by the operator.

The ImpulseRadar PinPointR UWB GPR utilizes a dual band 400/800 MHz HS antenna mounted to a stroller frame which rolls over the surface. The total depth of penetration achieved with the antenna can be up to 10 feet but widely varies based on site-specific subsurface conditions. Conductive materials in the soil attenuate the GPR signal causing a decrease in effective depth of penetration and clarity.

Vivax-Metrotech vLoc3-Pro Receiver/Transmitter

The vLoc3-Pro Receiver is a hand-operated antenna capable of detecting electromagnetic (EM) fields emitted from a source. The EM antenna can detect pipes and cables in the ground at depths of up to 20 feet using active or passive tracing techniques. Passive tracing is the act of locating an underground utility through the detection of electrical or radio signals travelling along conductive utilities. Active tracing is used in conjunction with the Transmitter that is directly connected to the target utility or to a conductive rodder within a non-conductive line. A signal is sent through the utility at a specific frequency that can be detected by the Receiver. The detectability of a target utility depends on many factors including access to the target utility, grounding, depth of utility, conductivity, and other site-specific factors.

TW-6 Pipe and Cable Locator

The TW-6 Pipe and Cable locator is a handheld magnetometer which utilizes a transmitter-receiver pair attached to opposite ends of a handle and carried approximately 1-2ft from the surface. The magnetometer induces an electromagnetic (EM) field into the ground that is generated by the transmitter. Once the induced EM field passes through a buried metallic object, it generates a

secondary EM field which is detected by the receiver, generating an audible tone. Based on the calibration of the magnetometer, the audible tone reflects the strongest response as the highest pitched sound, trailing off on all sides of the peak. This piece of technology can be used to detect subsurface features such as metallic USTs, large diameter conductive pipes, and buried manholes, especially in areas in which traditional GPR methods cannot be utilized, such as overgrown or uneven surfaces.

4.0 METHODOLOGY

1. A subsurface investigation was performed in close proximity to the client proposed soil boring locations. Active and passive detection methods were utilized with the VLoc3-Pro receiver/transmitter. Coastal personnel direct connected to all accessible and traceable pipes, conduits, valve covers, and any other surface feature throughout the site. A passive scan was performed throughout the site to detect any potential underground utilities that could not be located with active scan.
2. The TW-6 was utilized to sweep accessible areas around suspected UST locations in 3-to-5-foot spacings for readings that may represent a buried metallic anomaly. Upon detection of a reading, the approximate size and shape of the anomalous area was marked on the surface to be investigated further with GPR.
3. GPR was utilized to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the areas around the suspected UST location was scanned with GPR in 3-to-5-foot spacing to locate any anomalous features not previously detected such as non-conductive piping and former excavations.
4. All findings were marked on the surface utilizing the American Public Works Association (APWA) recommended color code, seen below:

WHITE	Proposed Excavation
PINK	Temporary Survey Markings (Approximate UST Locations, Soil Boring Locations)
RED	Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW	Gas, Oil, Steam, Petroleum or Gaseous Materials
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduit
BLUE	Water (Domestic and Fire Lines)
PURPLE	Irrigation (Not commonly used)
GREEN	Sewers and Drain Lines

5.0 SUMMARY OF FINDINGS

Utility Locate

Coastal personnel conducted a utility locate on all accessible areas within the areas of concern. All proposed soil borings were first identified by Pw Grosser field personnel during a walkthrough of the locations. All detections were marked with chalk to avoid permanent marks on the surface. Only storm drains were detected within proximity of the proposed soil boring locations, all other critical infrastructure was determined to be outside of the areas. Proposed boring locations proximate to utilities were field adjusted by PW Grosser staff.

Limitations

The effective depth of GPR penetration was limited to 2 feet. The limiting factor was due to soil conductivity attenuating the GPR signal. The GPR and TW-6 is unable to be utilized within close proximity to parked vehicles, metallic fences and exterior walls. Much of this site appeared to contain shallow saturated soil which reduced maximum GPR depth.

Disclaimer

The subsurface investigation was performed by Coastal after considering the limits of the scope of work and the time constraint for the investigation. The investigation that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations that are presented are based on professional judgment and are as accurate as can reasonably be achieved. However, no geophysical equipment can accurately depict all subsurface features due to the geology and environmental conditions of the subsurface. Any intrusive work in proximity to identified anomalies should be carefully considered and cross-referenced with all available site-specific documentation. Coastal is not liable for the use, interpretation, or application of the data and information in this report.

FIGURES

Geophysical Investigation Results

610 East Fordham Road,
Bronx, NY

Coastal Environmental Solutions Inc.

PO Box 342, Medford New York 11763

Date of Investigation: 7.24.2022

Figure No. 1

PHOTOS & GPR SCREENSHOTS

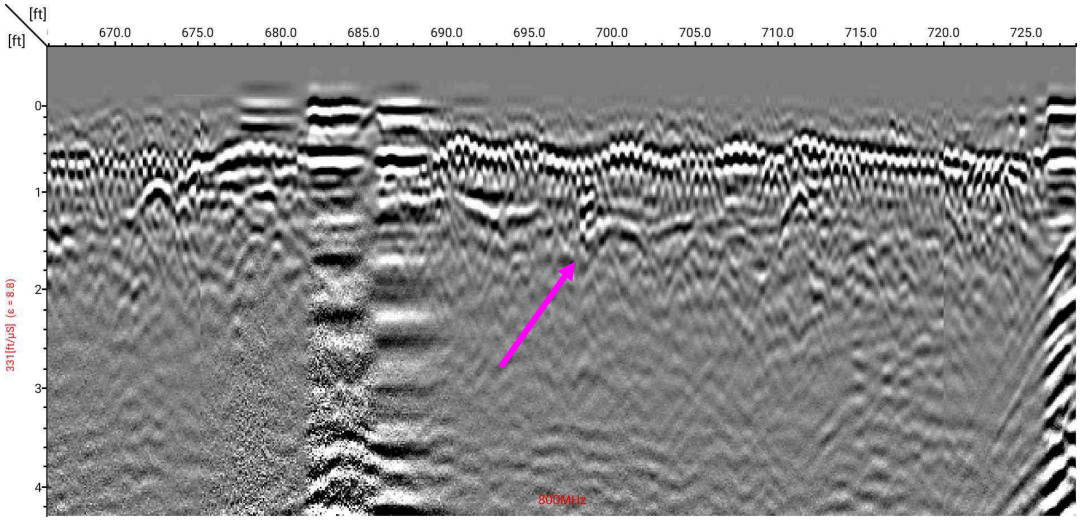

Photo 1 and GPR Screenshot 1 – Photo of one of the proposed soil borings located in the westmost corner of the building. The drain lines detected within the area were identified in the above photo and GPR screenshot (pink arrow).

Photo 2 – View of the front of the building during drilling activities.

Photo 3 – View of the rear of the building showing two additional proposed boring locations.

APPENDIX B

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353 PWGROSSER.COM
630 JOHNSON AVENUE, STE 7 BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON

PROJECT #:	BLU2201
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY
BORING ID:	SB001
WELL ID:	N/A
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6620DT
SAMPLING METHOD:	Macrocore

BORING DEPTH (FT): 7.5	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
TIME STARTED: 10:25	TIME FINISHED: 10:37
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0			3	FILL: light brown, slightly damp, fill, trace concrete fragments and gravel	0	0.0	
4.0			3.5	SILTY SAND (SM): light brown, slightly damp, fine sand with some silt, trace gravel, no odor, groundwater not encountered	0	4.0	
7.6						7.6	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 7.5 | **Water Table Symbol:** ▼ |

PROJECT #:	BLU2201
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY
BORING ID:	SB002
WELL ID:	N/A
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6620DT
SAMPLING METHOD:	Macrocore

BORING DEPTH (FT): 3.5	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
TIME STARTED: 10:40	TIME FINISHED: 10:53
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0 – 1.0			1	FILL: dark brown, damp, fill, trace concrete fragments and gravel	0
1.0 – 3.5				POORLY GRADED SAND (SP): dark brown, damp, fine to medium grained sand, some concrete fragments, trace gravel, no odor, groundwater not encountered	0

DEPTH (feet): 0.0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

PROJECT #:	BLU2201		
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY		
BORING ID:	SB003	BORING DEPTH (FT): 7.5	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 10:58	TIME FINISHED: 11:11
DRILLING EQUIPMENT:	Geoprobe 6620DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0				FILL: light grey, dry, fil, some concrete fragments	1.5	0.0	
0.4						0.4	
0.8						0.8	
1.2			1.5	POORLY GRADED SAND (SP): light brown, dry, fine and medium sand, some concrete fragments, trace gravel, no odor, groundwater not encountered	0.5	1.2	
1.6						1.6	
2.0						2.0	
2.4						2.4	
2.8						2.8	
3.2						3.2	
3.6						3.6	
4.0						4.0	
4.4						4.4	
4.8						4.8	
5.2			2			5.2	
5.6						5.6	
6.0						6.0	
6.4						6.4	
6.8						6.8	
7.2						7.2	

PROJECT #:	BLU2201
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY
BORING ID:	SB004
WELL ID:	N/A
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6620DT
SAMPLING METHOD:	Macrocore

BORING DEPTH (FT): 8	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
TIME STARTED: 11:35	TIME FINISHED: 11:48
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0 – 2.0			2	POORLY GRADED SAND (SP): greysih brown, dry, medium grained sand, some gravel, trace concrete and asphalt fragments, no odor	0.4
4.0 – 6.0			2	POORLY GRADED SAND (SP): greyish brown, dry, medium-fine grained sand, some gravel, trace brick and asphalt fragments, no odor, groundwater not encountered	0.4

DEPTH (feet): 0.0, 0.4, 0.8, 1.2, 1.6, 2.0, 2.4, 2.8, 3.2, 3.6, 4.0, 4.4, 4.8, 5.2, 5.6, 6.0, 6.4, 6.8, 7.2, 7.6

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

PROJECT #:	BLU2201		
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY		
BORING ID:	SB005	BORING DEPTH (FT): 7.5	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 11:17	TIME FINISHED: 11:30
DRILLING EQUIPMENT:	Geoprobe 6620DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0			2	FILL: light brown, dry, fill, some concrete fragments, trace gravel and clay, no odor	0	0.0	
4.0			2.5	SANDY LEAN CLAY (CL): dark gray, damp, fine-medium sandy clay, trace concrete fragments and gravel, no odor, groundwater not encountered	0	4.0	

P.W. Grosser Consulting | **End of Boring Depth (feet):** 7.5 | **Water Table Symbol:** ▼ |

PROJECT #:	BLU2201		
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY		
BORING ID:	SB006	BORING DEPTH (FT): 8	CORE LENGTH (FT): 5
WELL ID:	N/A	BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.	DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
DRILLING METHOD:	Direct Push	TIME STARTED: 12:04	TIME FINISHED: 12:14
DRILLING EQUIPMENT:	Geoprobe 6620DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Macrocore	PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)
0.0–4.0			2	POORLY GRADED SAND (SP): dark brown, dry, medium grained sand, some gravel, no odor	0
4.0–6.0			4	SANDY LEAN CLAY (CL): dark gray, damp, fine-medium sandy clay, trace coal ash, no odor, groundwater not encountered	0

DEPTH (feet): 0.0, 0.4, 0.8, 1.2, 1.6, 2.0, 2.4, 2.8, 3.2, 3.6, 4.0, 4.4, 4.8, 5.2, 5.6, 6.0, 6.4, 6.8, 7.2, 7.6

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

PROJECT #:	BLU2201
SITE ADDRESS:	608-610 East Fordham Road, Bronx, NY
BORING ID:	SB007
WELL ID:	N/A
DRILLING CONTRACTOR:	Coastal Environmental Solutions, Inc.
DRILLING METHOD:	Direct Push
DRILLING EQUIPMENT:	Geoprobe 6620DT
SAMPLING METHOD:	Macrocore

PWGC

BORING DEPTH (FT): 8	CORE LENGTH (FT): 5
BORING DIAMETER (IN): 4	WELL DIAMETER (IN):
DATE STARTED: 07/24/2022	DATE FINISHED: 07/24/2022
TIME STARTED: 13:34	TIME FINISHED: 13:50
LATITUDE: N/A	LONGITUDE: N/A
PROJECT MANAGER: Derek Ersbak	LOGGED BY: Matthew Sanchez

DEPTH (feet)	SAMPLE INTERVAL	USCS KEY	RECOVERY (feet)	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0.0 – 4.0			2	FILL: light brown, dry, fill, some concrete fragments, trace gravel and coal ash, no odor	0	0.0 – 4.0	
4.0 – 6.0			2	POORLY GRADED SAND (SP): light brown, dry, medium-fine grained sand, trace gravel, no odor, groundwater not encountered	0	4.0 – 6.0	

APPENDIX C

P.W. GROSSER CONSULTING, INC.
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630 JOHNSON AVENUE, STE 7 BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON

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

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

Preparer's Name Matthew Sanchez Date/Time Prepared 7/24/22 14:25

Preparer's Affiliation PWGC Phone No. 516-316-1511

Purpose of Investigation Phase II Environmental Site Assessment

1. OCCUPANT:

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

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

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

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

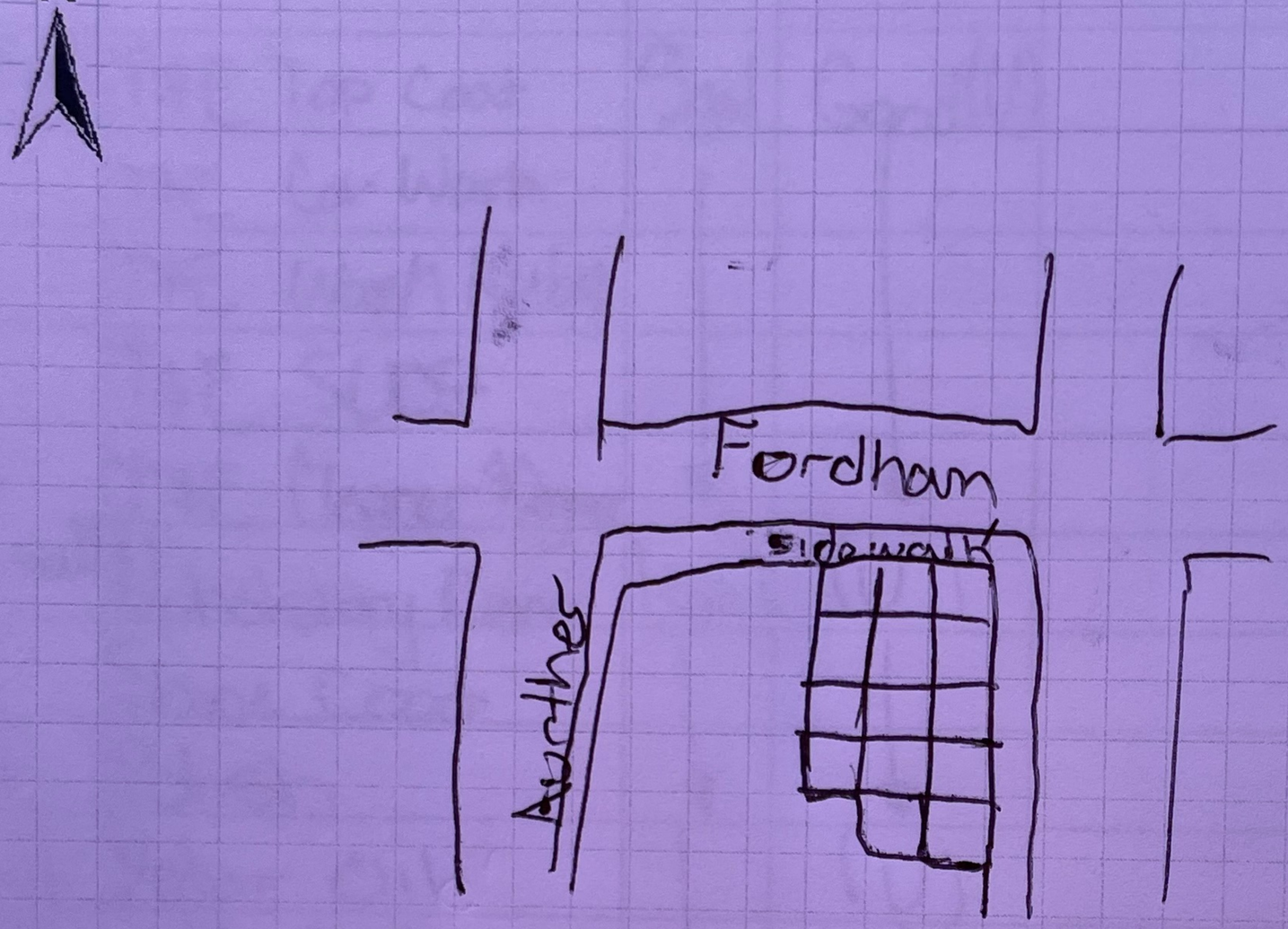
Type of Building: (Circle appropriate response)

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

12. OUTDOOR PLOT

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

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



If the property is residential, type? (Circle appropriate response)

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

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Car Wash

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

Other characteristics:

Number of floors 1 Building age_____

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

4. AIRFLOW

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

Airflow between floors

N/A

Airflow near source

There is a room fan turn on about 8 feet away and a room heat (gas) that is not on (same location)

Outdoor air infiltration

The bay doors (two) are open

Infiltration into air ducts

N/A

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini RAE Lite (PGM-7300)

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

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
South East East wall	T$E Top Coat	5gal	Good (U)		0.0	Y
	T$E Car Wash					
	T$E Wash & Wax					
	T$E SUDS+					
	T$E Cleaner $ Degreaser					
South wall	Upholstery Cleaner	1 quart	(U)			
	Shine Coat					
	Polish					
West	Motor Oil		(U)			
Shelter Room	WD-40					
	De-Icer	1gal				
	Anti freeze (Nitro)	1gal				

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

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

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

Basement/Lowest level depth below grade: N/A (feet)

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

~~None~~ No Major cracks, Drain next to hydrolic lift (about 2in diameter) few feet away, no utily ports next to sample ports

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

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

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

The primary type of fuel used is:

~~Natural Gas~~	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

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

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

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

N/A

7. OCCUPANCY

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

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	N/A
1st Floor	Car Wash
2nd Floor	N/A
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

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

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

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) ~~(Y) / N / NA~~ NO
Please specify_____

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

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

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

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

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

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

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

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

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

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

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? Doesn't seem to work

o. Is there a clothes dryer? Yes ~~Y / N~~ If yes, is it vented outside? Y / (N) next to bay door Spin dry

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

Are there odors in the building? (Y) / N
If yes, please describe: car cleaning agents

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

If yes, what types of solvents are used? T3E Sales (Car Wash, Top Coat, Wash & Wax, Cleaner & Degreaser SUDS+,

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

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

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

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

9. WATER AND SEWAGE

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

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

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

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

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

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

11. FLOOR PLANS

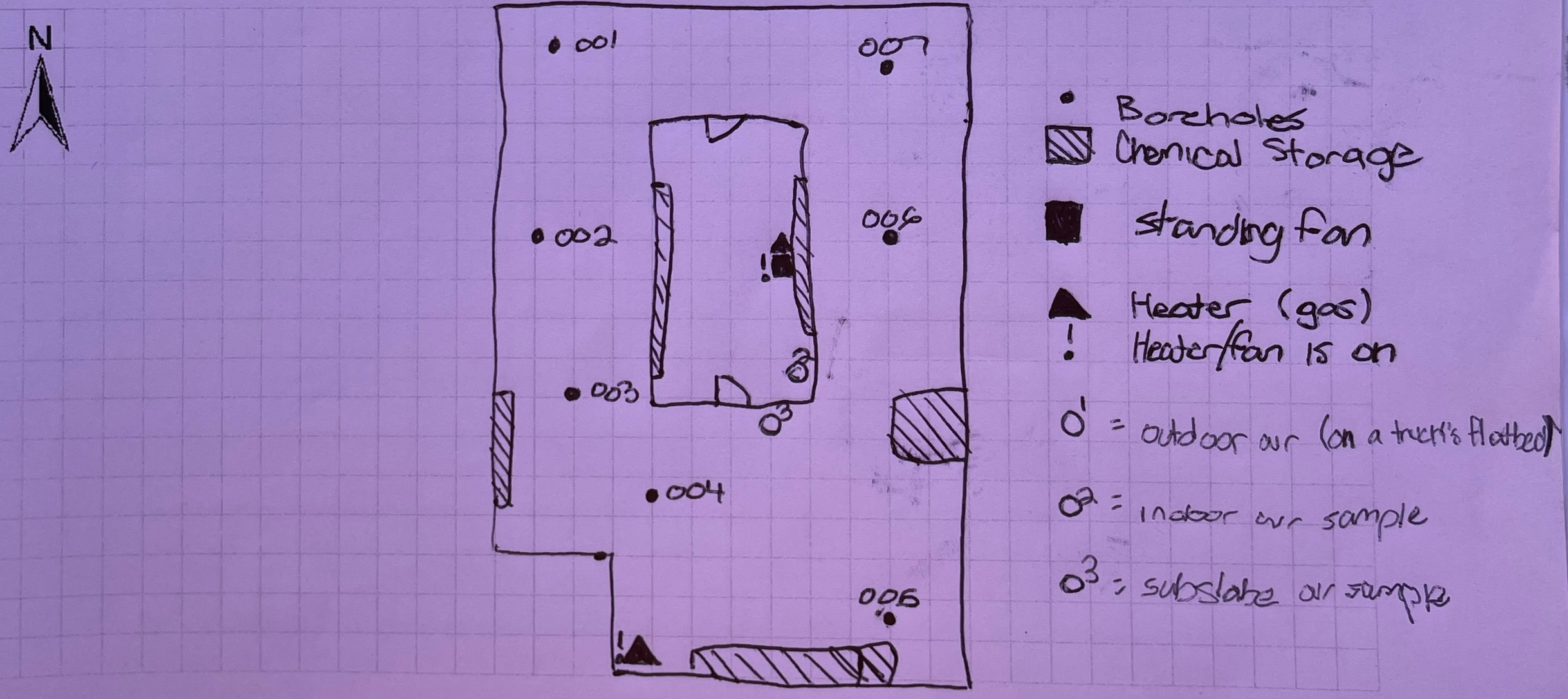
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

N

O¹

First Floor:



APPENDIX D

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PWGC
CLIENT DRIVEN SOLUTIONS

TO-15 Sampling Log

Sample ID	Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Canister ID	Regulator ID	Location

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APPENDIX E

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
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LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON

Technical Report

prepared for:

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Ryan Morley

Report Date: 08/01/2022
Client Project ID: BLU2201
York Project (SDG) No.: 22G1104

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 08/01/2022
Client Project ID: BLU2201
York Project (SDG) No.: 22G1104

P.W. Grosser Consulting
630 Johnson Avenue, Suite 7
Bohemia NY, 11716
Attention: Ryan Morley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 25, 2022 and listed below. The project was identified as your project: **BLU2201**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22G1104-01	SS001	Soil Vapor	07/24/2022	07/25/2022
22G1104-02	IA001	Air	07/24/2022	07/25/2022
22G1104-03	AA001	Air	07/24/2022	07/25/2022

General Notes for York Project (SDG) No.: 22G1104

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 08/01/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SS001 **York Sample ID:** 22G1104-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Soil Vapor	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	9.50	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	7.55	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	9.50	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	10.6	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	7.55	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	5.60	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	2.74	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	10.3	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	6.80	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	10.6	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	8.32	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	5.60	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	6.40	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	9.67	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**7.48**		ug/m³	6.80	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	9.19	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	8.32	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	6.40	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	8.32	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	**1,4-Dioxane**	**19.0**		ug/m³	9.97	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**33.5**		ug/m³	4.08	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS001 **York Sample ID:** 22G1104-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Soil Vapor	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	11.3	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	21.7	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**6.24**		ug/m³	5.67	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**1000**		ug/m³	6.58	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	3.00	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**6.19**		ug/m³	4.42	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	7.17	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	9.27	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	14.3	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	5.37	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**9.05**		ug/m³	4.31	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	Carbon tetrachloride	ND		ug/m³	2.18	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	6.37	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	3.65	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	**Chloroform**	**17.6**		ug/m³	6.76	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	2.86	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	2.74	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	6.28	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**6.19**		ug/m³	4.76	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	11.8	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	6.84	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	9.97	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			

Sample Information

Client Sample ID: SS001 **York Sample ID:** 22G1104-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Soil Vapor	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	6.01	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	14.8	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**23.1**		ug/m³	6.80	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	5.67	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	4.99	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	9.61	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**5.67**		ug/m³	5.67	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**23.9**		ug/m³	4.88	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**8.41**		ug/m³	6.01	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**19.2**		ug/m³	12.0	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**12.2**		ug/m³	6.80	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
115-07-1	*** Propylene**	**7.62**		ug/m³	2.38	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	5.90	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**65.7**		ug/m³	9.39	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	8.16	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:			
108-88-3	**Toluene**	**25.0**		ug/m³	5.22	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	5.49	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	6.28	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	1.86	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	7.78	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	4.87	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	6.05	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SS001 **York Sample ID:** 22G1104-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Soil Vapor	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	1.77	13.84	EPA TO-15	07/30/2022 07:30	07/30/2022 09:37	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA001 **York Sample ID:** 22G1104-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:14 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.549	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.437	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.549	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**0.613**		ug/m³	0.613	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.437	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.324	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.159	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.594	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**3.70**		ug/m³	0.393	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.615	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.481	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.324	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.370	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.559	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**0.983**		ug/m³	0.393	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.531	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.481	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.370	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
106-46-7	**1,4-Dichlorobenzene**	**1.59**		ug/m³	0.481	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.577	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**5.45**		ug/m³	0.236	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	*** 2-Hexanone**	**0.852**		ug/m³	0.655	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			

Sample Information

Client Sample ID: IA001 **York Sample ID:** 22G1104-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:14 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.25	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**9.21**		ug/m³	0.328	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**53.0**		ug/m³	0.380	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.174	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**9.38**		ug/m³	0.256	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.414	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.536	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.827	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.311	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	**Carbon disulfide**	**0.349**		ug/m³	0.249	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.302**		ug/m³	0.126	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.368	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.211	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	**Chloroform**	**1.02**		ug/m³	0.391	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.26**		ug/m³	0.165	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.159	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.363	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**169**		ug/m³	2.07	6.008	EPA TO-15	07/30/2022 07:30	07/30/2022 18:28	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.681	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.33**		ug/m³	0.396	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	0.577	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**2.74**		ug/m³	0.347	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA001 **York Sample ID:** 22G1104-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:14 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.853	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**34.7**		ug/m³	0.393	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.328	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.288	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	Methylene chloride	ND		ug/m³	0.556	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	**n-Heptane**	**26.0**		ug/m³	0.328	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**685**		ug/m³	2.12	6.008	EPA TO-15	07/30/2022 07:30	07/30/2022 18:28	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**3.86**		ug/m³	0.347	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**9.76**		ug/m³	0.695	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**3.26**		ug/m³	0.393	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
115-07-1	*** Propylene**	**30.9**		ug/m³	0.138	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
100-42-5	**Styrene**	**0.852**		ug/m³	0.341	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**1.36**		ug/m³	0.543	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.472	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications:			
108-88-3	**Toluene**	**16.0**		ug/m³	0.301	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.317	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.363	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	**Trichloroethylene**	**0.344**		ug/m³	0.107	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.57**		ug/m³	0.450	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.282	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.350	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.102	0.8	EPA TO-15	07/30/2022 07:30	07/30/2022 10:39	LLJ
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **IA001** **York Sample ID:** **22G1104-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:14 pm	07/25/2022

Sample Information

Client Sample ID: AA001 **York Sample ID:** 22G1104-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.537	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.427	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.537	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**0.659**		ug/m³	0.599	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.427	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.317	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.155	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.580	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**0.653**		ug/m³	0.384	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.601	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.470	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.316	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.361	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.547	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.384	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.519	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.470	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.361	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.470	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.564	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**1.04**		ug/m³	0.231	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.641	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			

Sample Information

Client Sample ID: AA001 **York Sample ID:** 22G1104-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.22	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**0.384**		ug/m³	0.320	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**11.6**		ug/m³	0.372	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.170	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.899**		ug/m³	0.250	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.405	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.524	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.808	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.304	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.244	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.443**		ug/m³	0.123	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.360	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.206	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.382	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	**Chloromethane**	**1.50**		ug/m³	0.161	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.155	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.355	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**0.269**		ug/m³	0.269	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.666	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**2.51**		ug/m³	0.387	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* Ethyl acetate	ND		ug/m³	0.564	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.475**		ug/m³	0.340	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: AA001 **York Sample ID:** 22G1104-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:13 pm	07/25/2022

Volatile Organics, TO15 Full

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.834	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**1.25**		ug/m³	0.384	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.320	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.282	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	Methylene chloride	ND		ug/m³	0.543	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**0.481**		ug/m³	0.321	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**0.992**		ug/m³	0.276	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**0.509**		ug/m³	0.340	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**1.12**		ug/m³	0.679	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**0.615**		ug/m³	0.384	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
115-07-1	*** Propylene**	**0.915**		ug/m³	0.135	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.333	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**1.11**		ug/m³	0.530	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.461	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:			
108-88-3	**Toluene**	**1.74**		ug/m³	0.295	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.310	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.355	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.105	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.41**		ug/m³	0.439	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.275	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.342	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.0999	0.782	EPA TO-15	07/30/2022 07:30	07/30/2022 11:48	LLJ
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **AA001** **York Sample ID:** **22G1104-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22G1104	BLU2201	Air	July 24, 2022 12:13 pm	07/25/2022

Analytical Batch Summary

Batch ID: BG21668 **Preparation Method:** EPA TO15 PREP **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
22G1104-01	SS001	07/30/22
22G1104-02	IA001	07/30/22
22G1104-02RE1	IA001	07/30/22
22G1104-03	AA001	07/30/22
BG21668-BLK1	Blank	07/30/22
BG21668-BS1	LCS	07/30/22
BG21668-DUP1	Duplicate	07/30/22

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG21668 - EPA TO15 PREP											
Blank (BG21668-BLK1)											Prepared & Analyzed: 07/30/2022
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	ND	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	ND	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
n-Heptane	ND	0.410	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG21668 - EPA TO15 PREP											
Blank (BG21668-BLK1)									Prepared & Analyzed: 07/30/2022		
n-Hexane	ND	0.352	ug/m³								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
LCS (BG21668-BS1)									Prepared & Analyzed: 07/30/2022		
1,1,1,2-Tetrachloroethane	10.7		ppbv	10.0		107	70-130				
1,1,1-Trichloroethane	10.6		"	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130				
1,1,2-Trichloroethane	10.8		"	10.0		108	70-130				
1,1-Dichloroethane	10.8		"	10.0		108	70-130				
1,1-Dichloroethylene	9.66		"	10.0		96.6	70-130				
1,2,4-Trichlorobenzene	10.5		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	9.55		"	10.0		95.5	70-130				
1,2-Dibromoethane	10.9		"	10.0		109	70-130				
1,2-Dichlorobenzene	9.35		"	10.0		93.5	70-130				
1,2-Dichloroethane	10.4		"	10.0		104	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	10.9		"	10.0		109	70-130				
1,3,5-Trimethylbenzene	9.52		"	10.0		95.2	70-130				
1,3-Butadiene	11.1		"	10.0		111	70-130				
1,3-Dichlorobenzene	9.63		"	10.0		96.3	70-130				
1,3-Dichloropropane	10.9		"	10.0		109	70-130				
1,4-Dichlorobenzene	9.47		"	10.0		94.7	70-130				
1,4-Dioxane	11.3		"	10.0		113	70-130				
2-Butanone	9.84		"	10.0		98.4	70-130				
2-Hexanone	11.0		"	10.0		110	70-130				
3-Chloropropene	11.0		"	10.0		110	70-130				
4-Methyl-2-pentanone	9.83		"	10.0		98.3	70-130				
Acetone	11.0		"	10.0		110	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	10.4		"	10.0		104	70-130				
Benzyl chloride	10.5		"	10.0		105	70-130				
Bromodichloromethane	10.7		"	10.0		107	70-130				
Bromoform	11.9		"	10.0		119	70-130				
Bromomethane	10.6		"	10.0		106	70-130				
Carbon disulfide	11.1		"	10.0		111	70-130				
Carbon tetrachloride	10.5		"	10.0		105	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG21668 - EPA TO15 PREP											
LCS (BG21668-BS1)								Prepared & Analyzed: 07/30/2022			
Chlorobenzene	9.72		ppbv	10.0		97.2	70-130				
Chloroethane	11.0		"	10.0		110	70-130				
Chloroform	10.7		"	10.0		107	70-130				
Chloromethane	10.2		"	10.0		102	70-130				
cis-1,2-Dichloroethylene	9.38		"	10.0		93.8	70-130				
cis-1,3-Dichloropropylene	11.5		"	10.0		115	70-130				
Cyclohexane	11.7		"	10.0		117	70-130				
Dibromochloromethane	11.8		"	10.0		118	70-130				
Dichlorodifluoromethane	10.3		"	10.0		103	70-130				
Ethyl acetate	10.4		"	10.0		104	70-130				
Ethyl Benzene	10.2		"	10.0		102	70-130				
Hexachlorobutadiene	12.2		"	10.0		122	70-130				
Isopropanol	9.24		"	10.0		92.4	70-130				
Methyl Methacrylate	11.0		"	10.0		110	70-130				
Methyl tert-butyl ether (MTBE)	10.7		"	10.0		107	70-130				
Methylene chloride	9.25		"	10.0		92.5	70-130				
n-Heptane	11.5		"	10.0		115	70-130				
n-Hexane	11.4		"	10.0		114	70-130				
o-Xylene	10.4		"	10.0		104	70-130				
p- & m- Xylenes	20.4		"	20.0		102	70-130				
p-Ethyltoluene	10.3		"	10.0		103	70-130				
Propylene	10.4		"	10.0		104	70-130				
Styrene	11.1		"	10.0		111	70-130				
Tetrachloroethylene	10.6		"	10.0		106	70-130				
Tetrahydrofuran	10.7		"	10.0		107	70-130				
Toluene	10.3		"	10.0		103	70-130				
trans-1,2-Dichloroethylene	10.7		"	10.0		107	70-130				
trans-1,3-Dichloropropylene	11.0		"	10.0		110	70-130				
Trichloroethylene	9.47		"	10.0		94.7	70-130				
Trichlorofluoromethane (Freon 11)	10.7		"	10.0		107	70-130				
Vinyl acetate	11.6		"	10.0		116	70-130				
Vinyl bromide	11.0		"	10.0		110	70-130				
Vinyl Chloride	11.6		"	10.0		116	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG21668 - EPA TO15 PREP											
Duplicate (BG21668-DUP1)	*Source sample: 22G1420-06 (Duplicate)								Prepared: 07/30/2022 Analyzed: 07/31/2022		
1,1,1,2-Tetrachloroethane	ND	0.717	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.570	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.717	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.801	"		ND					25	
1,1,2-Trichloroethane	ND	0.570	"		ND					25	
1,1-Dichloroethane	ND	0.423	"		ND					25	
1,1-Dichloroethylene	ND	0.207	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.776	"		ND					25	
1,2,4-Trimethylbenzene	1.85	0.514	"		1.90				2.74	25	
1,2-Dibromoethane	ND	0.803	"		ND					25	
1,2-Dichlorobenzene	ND	0.628	"		ND					25	
1,2-Dichloroethane	0.507	0.423	"		0.465				8.70	25	
1,2-Dichloropropane	ND	0.483	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.731	"		ND					25	
1,3,5-Trimethylbenzene	0.771	0.514	"		0.771				0.00	25	
1,3-Butadiene	1.29	0.694	"		ND					25	
1,3-Dichlorobenzene	ND	0.628	"		ND					25	
1,3-Dichloropropane	ND	0.483	"		ND					25	
1,4-Dichlorobenzene	1.13	0.628	"		1.13				0.00	25	
1,4-Dioxane	ND	0.753	"		ND					25	
2-Butanone	2.74	0.308	"		2.80				2.22	25	
2-Hexanone	0.557	0.856	"		ND					25	
3-Chloropropene	ND	1.64	"		ND					25	
4-Methyl-2-pentanone	0.685	0.428	"		0.685				0.00	25	
Acetone	27.3	0.496	"		27.3				0.273	25	
Acrylonitrile	ND	0.227	"		ND					25	
Benzene	1.80	0.334	"		1.87				3.64	25	
Benzyl chloride	ND	0.541	"		ND					25	
Bromodichloromethane	1.33	0.700	"		1.26				5.41	25	
Bromoform	ND	1.08	"		ND					25	
Bromomethane	ND	0.406	"		ND					25	
Carbon disulfide	ND	0.325	"		ND					25	
Carbon tetrachloride	0.460	0.164	"		0.526				13.3	25	
Chlorobenzene	ND	0.481	"		ND					25	
Chloroethane	ND	0.276	"		ND					25	
Chloroform	18.5	0.510	"		18.5				0.00	25	
Chloromethane	1.47	0.216	"		1.60				8.45	25	
cis-1,2-Dichloroethylene	0.124	0.207	"		0.124				0.00	25	
cis-1,3-Dichloropropylene	ND	0.474	"		ND					25	
Cyclohexane	0.468	0.360	"		0.468				0.00	25	
Dibromochloromethane	ND	0.890	"		ND					25	
Dichlorodifluoromethane	2.48	0.517	"		2.38				4.26	25	
Ethyl acetate	1.73	0.753	"		1.88				8.33	25	
Ethyl Benzene	1.13	0.454	"		1.09				4.08	25	
Hexachlorobutadiene	ND	1.11	"		ND					25	
Isopropanol	13.7	0.514	"		13.9				1.67	25	
Methyl Methacrylate	3.68	0.428	"		3.68				0.00	25	
Methyl tert-butyl ether (MTBE)	ND	0.377	"		ND					25	
Methylene chloride	1.96	0.726	"		2.11				7.14	25	
n-Heptane	0.942	0.428	"		1.03				8.70	25	
n-Hexane	0.921	0.368	"		0.921				0.00	25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BG21668 - EPA TO15 PREP											
Duplicate (BG21668-DUP1)	*Source sample: 22G1420-06 (Duplicate)								Prepared: 07/30/2022 Analyzed: 07/31/2022		
o-Xylene	1.50	0.454	ug/m³		1.50				0.00	25	
p- & m- Xylenes	3.68	0.907	"		3.63				1.24	25	
p-Ethyltoluene	1.28	0.514	"		1.28				0.00	25	
Propylene	3.69	0.180	"		3.70				0.487	25	
Styrene	0.579	0.445	"		0.534				8.00	25	
Tetrachloroethylene	3.54	0.709	"		3.54				0.00	25	
Tetrahydrofuran	0.986	0.616	"		0.925				6.45	25	
Toluene	5.99	0.394	"		6.03				0.656	25	
trans-1,2-Dichloroethylene	ND	0.414	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.474	"		ND					25	
Trichloroethylene	0.281	0.140	"		0.281				0.00	25	
Trichlorofluoromethane (Freon 11)	1.59	0.587	"		1.47				7.69	25	
Vinyl acetate	ND	0.368	"		ND					25	
Vinyl bromide	ND	0.457	"		ND					25	
Vinyl Chloride	ND	0.134	"		ND					25	

Sample and Data Qualifiers Relating to This Work Order

TO-VAC — The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK ANALYTICAL LABORATORIES INC

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22G1104

YOUR Information	Report To:	Invoice To:
Company: PW Grosser Consulting	Company:	Company:
Address: 630 Johnson Avenue Bohemia NY 11716	Address:	Address:
Phone.: 631-589-6353	Phone.:	Phone.:
Contact: Ryan Markey	Contact:	Contact:
E-mail: RyanM@PWgrosser.com	E-mail:	E-mail:

YOUR Project Number: BLU2201

YOUR Project Name: BLU2201

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- **Standard (5-7 Day)** ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From

New York
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested →	Container Description
SS001 (SV)	AIR	7/24/22	1013 1213 -31 -2 10-15	Summa
IA001 (AA)			1014 1214 -31 -8	1
AA001 (AA)			1015 1215 -31 -2	

Comments:

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
[signature]	7/25/22 1400	KBakyork	7/25/22 1400	KBakyork	7/25/22
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				[signature]	7/26/22 10:40 Degrees C

APPENDIX F

P.W. GROSSER CONSULTING, INC.
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
PHONE: 631.589.6353 PWGROSSER.COM
630 JOHNSON AVENUE, STE 7 BOHEMIA, NY 11716
LONG ISLAND • MANHATTAN • SARATOGA SPRINGS • SYRACUSE • SHELTON

NYSDOH Decision Matrix A
SV001/IA001
610 East Fordham Road, Bronx, NY

NYSDOH Decision Matrix A Sample Location SS001/IA001			Indoor Air Concentration - TRICHLOROETHENE (TCE) (µg/m³)		
			< 0.2	0.2 to < 1	1 and Above
				0.344	
Sub-Slab Concentration - TRICHLOROETHENE (TCE) (ug/m3)	< 6	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
	60 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix A Sample Location SS001/IA001			Indoor Air Concentration - cis-1,2-Dichloroethene (µg/m³)		
			< 0.2	0.2 to < 1	1 and Above
			ND		
Sub-Slab Concentration - cis-1,2-Dichloroethene(ug/m3)	< 6	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
	60 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix A Sample Location SS001/IA001			Indoor Air Concentration - 1,1-Dichloroethene (µg/m³)		
			< 0.2	0.2 to < 1	1 and Above
			ND		
Sub-Slab Concentration - 1,1-Dichloroethene (ug/m3)	< 6	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
	60 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix A Sample Location SS001/IA001			Indoor Air Concentration - Carbon Tetrachloride (µg/m³)		
			< 0.2	0.2 to < 1	1 and Above
				0.302	
Sub-Slab Concentration - Carbon Tetrachloride(ug/m3)	< 6	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	6 to < 60		4. No Further Action	5. MONITOR	6. MITIGATE
	60 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

ND - Analyte not Detected

NYSDOH Decision Matrices B/C
SV001/IA001
610 East Fordham Road, Bronx, NY

NYSDOH Decision Matrix B Sample Location SS001/IA001			Indoor Air Concentration - Tetrachloroethene (PCE) (µg/m³)		
			< 3	3 to < 10	10 and Above
			1.36		
Sub-Slab Concentration - Tetrachloroethene (PCE) (ug/m3)	< 100		1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	100 to < 1,000	**65.7**	4. No Further Action	5. MONITOR	6. MITIGATE
	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix B Sample Location SS001/IA001			Indoor Air Concentration - 1,1,1-Trichloroethane (µg/m³)		
			< 3	3 to < 10	10 and Above
			ND		
Sub-Slab Concentration - 1,1,1-Trichloroethane (ug/m3)	< 100	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	100 to < 1,000		4. No Further Action	5. MONITOR	6. MITIGATE
	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix B Sample Location SS001/IA001			Indoor Air Concentration - Methylene Chloride (µg/m³)		
			< 3	3 to < 10	10 and Above
			ND		
Sub-Slab Concentration - Methylene Chloride (ug/m3)	< 100	**ND**	1. No further Action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	100 to < 1,000		4. No Further Action	5. MONITOR	6. MITIGATE
	1,000 and Above		7. MITIGATE	8. MITIGATE	9. MITIGATE

NYSDOH Decision Matrix C Sample Location SS001/IA001			Indoor Air Concentration - Vinyl Chloride (µg/m³)	
			< 0.2	0.2 and Above
			ND	
Sub-Slab Concentration - Vinyl Chloride (ug/m3)	< 6	**ND**	1. No further Action	2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
	6 to < 60		3. MONITOR	4. MITIGATE
	60 and Above		5. MITIGATE	6. MITIGATE

ND - Analyte not Detected